

Program

Room S1

Bldg.13 1325

CSJ Award Presentation

Thursday, March 26, AM

Chair: HANABUSA, Kenji (11:00~12:00)

- 1S1-01 CSJ Award Presentation** Development of Dimensionally Controlled Polymer Materials by Use of Self-assembly based on Weak Interactions (Grad. Sch. Eng., Osaka Univ.) ○AKASHI, Mitsuru (11:00~12:00)

Thursday, March 26, PM

Chair: TAKAI, Kazuhiko (13:00~14:00)

- 1S1-02 CSJ Award Presentation** Creation of Exotic π - Conjugated Organic Molecules and their Assemblies (Grad. Sch. Eng. Sci., Osaka Univ.) ○TOBE, Yoshito (13:00~14:00)

Chair: SAKAKI, Shigeyoshi (14:30~15:30)

- 1S1-03 CSJ Award Presentation** Development and Application of Basic Theory for Electron Dynamics in Chemical Reactions (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TAKATSUKA, Kazuo (14:30~15:30)

Chair: TOSHIKAZU, Takata (16:00~17:00)

- 1S1-04# CSJ Award Presentation** Precision Control of Helical Structures and Its Application to Functional Chiral Materials (Grad. Sch. Eng., Nagoya Univ.) ○YASHIMA, Eiji (16:00~17:00)

Friday, March 27, AM

Chair: INAGAKI, Shinji (11:00~12:00)

- 2S1-01# CSJ Award Presentation** Creation of Mesoporous Silica-type Materials and Their Developments (Fac. Sci. Eng., Waseda Univ.) ○KURODA, Kazuyuki (11:00~12:00)

Special Lecture

Friday, March 27, PM

Chair: XU, Qiang (14:00~14:50)

- 2S1-02# Special Lecture** On the Way to a Sustainable Society - What are the Challenges and Contributions from Chemistry & Catalysis (Leibniz-Institute for Catalysis) ○MATTHIAS, Beller (14:00~14:50)

Chair: YAMAMOTO, Yohsuke (15:00~15:50)

- 2S1-03# Special Lecture** Synthesis and Reactivity of Complexes with Protic NHC Ligands (Univ. of Muenster) ○HAHN, Franz Ekkehardt (15:00~15:50)

Chair: MATSUBARA, Seijiro (16:00~16:50)

- 2S1-04# Special Lecture** Rhodium-Catalyzed Addition of Pronucleophiles to Allenes and Alkynes (University of Freiburg) ○BREIT, Bernhard (16:00~16:50)

Room S2

Bldg.13 1326

Frontiers of Artificial Photosynthesis JST PRESTO Project "Chemical Conversion of Light Energy"

Thursday, March 26, AM

(9:30~12:00)

- 1S2-01# JST-PRESTO Project** Opening Remarks (Tokyo Metropolitan Univ.) ○INOUE, HARUO (09:30~09:40)

- 1S2-02# JST-PRESTO Project** Novel Ruthenium-Peptide Complexes Designed Based on "Peptide Origami" for Photochemical CO₂ Reduction Catalysts (Kitasato Univ.) ○ISHIDA, Hitoshi (09:40~10:00)

- 1S2-03# JST-PRESTO Project** Development of New Photocatalysts for the Highly Efficient Reduction of Carbon Dioxide (TUT) ○MORIMOTO, Tatsuki (10:00~10:20)

- 1S2-04# JST-PRESTO Project** Development of energy-storing systems utilizing photochemical hydride transfer reactions (Kanagawa Univ.) ○MATSUBARA, Yasuo (10:20~10:40)

- 1S2-05# JST-PRESTO Project** Development of chemical conversion system of light energy using arylborane compounds (Nagasaki Univ.) ○SAKUDA, Eri (10:40~11:00)

- 1S2-06# JST-PRESTO Project** Development of new CO₂ reduction catalysts utilizing coordination of metal and function of ligand. (Toyota Central R&D Lab.) ○SATO, SYUNSUKE (11:00~11:20)

- 1S2-07# JST-PRESTO Project** Photocatalytic conversion of CO₂ in water using layered double hydroxides for carbon-neutral energy innovation (Kyoto Univ.) ○TERAMURA, Kentaro (11:20~11:40)

- 1S2-08# JST-PRESTO Project** Developments of Reaction Sites Separated Nano-composite Photocatalyst Tower for CO₂ Reduction System (Kyushu Inst. Tech.) ○OHNO, TERUHISA (11:40~12:00)

Thursday, March 26, PM

(13:30~17:30)

- 1S2-09# JST-PRESTO Project** The Artificial Leaf (Harvard Univ.) ○NOCERA, Daniel G. (13:30~14:10)

- 1S2-10# JST-PRESTO Project** Control of behavior and energy state of photogenerated charge carriers on photocatalysts (Toyota Tech. Inst.) ○YAMAKATA, AKIRA (14:10~14:30)

- 1S2-11# JST-PRESTO Project** Development of energy conversion materials with hierarchical structure using two-dimensional nanocrystals (Kyushu Univ.) ○IDA, Shintaro (14:30~14:50)

- 1S2-12# JST-PRESTO Project** Construction of nanoparticle suprastructure toward the novel artificial photosynthesis (ICR, Kyoto Univ.) ○SAKAMOTO, MASANORI (14:50~15:10)

- 1S2-13# JST-PRESTO Project** Structural Changes of Bacteriorhodopsin Studied by Time-Resolved Polarized FTIR Spectroscopy (IMS) ○FURUTANI, YUJI (15:25~15:45)

- 1S2-14# JST-PRESTO Project** Elucidation of the driving force of ultrafast electron transfer and its reaction field (Osaka Univ.) ○NAGASAWA, YUTAKA (15:45~16:05)

- 1S2-15# JST-PRESTO Project** Elucidation of complex light energy conversion processes using novel time-resolved infrared vibrational spectroscopy (Tokyo Inst. Tech.; JST) ○ONDA, Takeshi (16:05~16:25)

- 1S2-16# JST-PRESTO Project** Studies on the oxygen-evolving reaction center of Photosystem II complex by crystal structural analysis (Okayama Univ.) ○UMENA, YASUFUMI (16:25~16:45)

- 1S2-17# JST-PRESTO Project** Studies on biosynthesis of the active-site iron-complex from [Fe]-hydrogenase (Max Planck Inst.) ○SHIMA, SEIGO (16:45~17:05)

- 1S2-18# JST-PRESTO Project** Protein Engineering for creation of algae with high formate productivity (Shinshu Univ.) ○IHARA, MASAKI (17:05~17:25)

- 1S2-19# JST-PRESTO Project** Closing Remarks (JST) (17:25~17:30)

Artificial Photosynthesis in Hydrogen Society

Friday, March 27, PM

(15:25~15:30)

- 2S2-07 Medium and Long-Term Program Lecture** Opening remark (Tokyo Metropolitan Univ.) ○INOUE, Haruo (15:25~15:30)

Chair: INOUE, Haruo (15:30~15:50)

- 2S2-08 Medium and Long-Term Program Lecture** How can artificial photosynthesis contribute to society? (Grad. Sch. Eng., The Univ. of Tokyo) ○HASHIMOTO, Kazuhito (15:30~15:50)

Chair: TAMI, Hitoshi (15:50~16:50)

- 2S2-09 Medium and Long-Term Program Lecture** Photobiological hydrogen production utilizing heterocyst-forming cyanobacteria (Fac. Sci., Kanagawa Univ.) ○INOUE, Kazuhito; MASUKAWA, Hajime; KITASHIMA, Masaharu; TAKESHI, Sato; HIDEHIRO, Sakurai (15:50~16:10)

- 2S2-10 Medium and Long-Term Program Lecture** Hydrogen

production using photocatalyst (Fac. Sci., Tokyo Univ. of Sci.) ○KUDO, Akihiko (16:10~16:30)

2S2-11 Medium and Long-Term Program Lecture Photochemical fixation of CO₂ (Grad. Sch. Sci., Eng., Tokyo Tech) ○ISHITANI, Osamu (16:30~16:50)

Chair: INOUE, Haruo (16 : 50~17 : 30)

2S2-12 Medium and Long-Term Program Lecture Plasmon-induced ammonia synthesis through nitrogen photofixation (RIES, Hokkaido Univ.) ○MISAWA, Hiroaki (16:50~17:10)

2S2-13 Medium and Long-Term Program Lecture What is the realistic strategy for the installation of artificial photo synthesis in industry? (MCRC) ○SETOYAMA, Toru (17:10~17:30)

CSJ Award Presentation

Saturday, March 28, AM

Chair: HIRAO, Kimihiko (11 : 00~12 : 00)

3S2-01[#] CSJ Award Presentation Dynamical Structural Studies on Ultrafast Processes of Molecules (Grad. Sch. Sci., The Univ. of Tokyo) ○YAMANOUCHI, Kaoru (11:00~12:00)

CSJ Public Lecture

Saturday, March 28, PM

Chair: GOTO, Kei (13 : 30~14 : 20)

3S2-02 CSJ Public Lecture Materials to make cells vigorous - to realize regenerative medicine - (Inst. Frontier Med. Sci., Kyoto Univ.) ○TABATA, Yasuhiko (13:30~14:20)

Chair: HIBARA, Akihiko (14 : 20~15 : 10)

3S2-03 CSJ Public Lecture Mystery of Spider Silk (Nara Med. Univ.) ○OSAKI, Shigeyoshi (14:20~15:10)

Chair: YAMAMOTO, Takashi (15 : 20~16 : 10)

3S2-04 CSJ Public Lecture Photonics Polymer and Fundamentals (Grad. Sch. Sci. Tech., Keio Univ.) ○KOIKE, Yasuhiro (15:20~16:10)

Chair: TUKUDA, Tatsuya (16 : 10~17 : 00)

3S2-05 CSJ Public Lecture Space Voyages by Hayabusa 1&2 Asteroid Explorers (JAXA) ○KUNINAKA, Hitoshi (16:10~17:00)

Room S3

Bldg.14 1421

Current state and Perspective of Nano Scale Molecular Devices

Thursday, March 26, AM

Chair: KIGUCHI, Manabu (9 : 30 ~ 10 : 50)

1S3-01 Special Program Lecture Thermoelectric Power in Nano-junctions (ISIR, Osaka Univ.) ○TANIGUCHI, Masateru (09:30~09:50)

1S3-02 Special Program Lecture Syntheses and Properties of Functionalized Insulated Molecular Wires (Grad. Sch. Eng., Kyoto Univ.) ○JUN, Terao (09:50~10:10)

1S3-03 Special Program Lecture Single-molecule luminescence spectroscopy with STM and spectral analysis (RIKEN Surface and Interface Science Laboratory) ○KIM, Yousoo; IMADA, Hiroshi; IMAI, Miyabi; SHIMIZU, Tomoko; KAWAI, Maki (10:10~10:30)

1S3-04 Special Program Lecture Development of pi-Conjugated Systems towards Molecular Architectonics (ISIR, Osaka Univ.) ○IE, Yutaka (10:30~10:50)

Chair: TANIGUCHI, Masateru (11 : 10~12 : 30)

1S3-05 Special Program Lecture Design of functional device via ab initio nonequilibrium transport simulation: From molecule to metal-oxide materials (NRI, AIST) ○NAKAMURA, Hisao (11:10~11:30)

1S3-06 Special Program Lecture Single molecular device using STM (Grad. Sch. Sci., Eng., Tokyo Tech) ○KIGUCHI, Manabu (11:30~11:50)

1S3-07 Special Program Lecture Ab initio calculations for quantum transport of pi-stacking molecular junctions (MCES, Tokyo Tech) ○TADA, Tomofumi (11:50~12:10)

1S3-08 Special Program Lecture Preparation of tunneling junctions via organic monolayers and their application (Grad. Sch. Eng. Sci., Osaka Univ.) ○YAMADA, Ryo; YAMAGUCHI, Mariko; OHTO, Tatsuhiko; TADA, Hirokazu (12:10~12:30)

New Trend in Low-dimensional Nanothermoelectrics

Thursday, March 26, PM

(13 : 30~13 : 40)

1S3-09 Medium and Long-Term Program Lecture Introduction (Grad. Sch. Eng., Nagoya Univ.) ○KOUMOTO, Kunihito (13:30~13:40)

Chair: KOUMOTO, Kunihito (13 : 40~15 : 10)

1S3-10 Medium and Long-Term Program Lecture Challenge to thermoelectric application (UBIQEN, AIST) ○FUNAHASHI, Ryoji (13:40~14:10)

1S3-11 Medium and Long-Term Program Lecture Utilizing nanosheets and building defects of layered inorganic materials for enhanced thermoelectric performance (MANA, NIMS) ○MORI, Takao (14:10~14:40)

1S3-12 Medium and Long-Term Program Lecture Impact of 2.5 Dimensionality on Thermal Conduction in Layered Thermoelectric Oxides (Grad. Sch. Eng., Osaka Univ.) ○YOSHIYA, Masato; FUJII, Susumu; KANAYAMA, Daisuke; MIYAUCHI, Yohei; TADA, Masahiro; NAGIRA, Tomoya; YASUDA, Hideyuki (14:40~15:10)

Chair: FUNAHASHI, Ryoji (15 : 20~16 : 50)

1S3-13[#] Medium and Long-Term Program Lecture TiS₂-based inorganic/organic superlattices for low temperature thermoelectric energy conversion (Grad. Sch. Eng., Nagoya Univ.) ○WAN, Chunlei (15:20~15:50)

1S3-14 Medium and Long-Term Program Lecture Recent Progress in Hybrid Organic Thermoelectric Materials (Tokyo Univ. of Sci., Yamaguchi) ○TOSHIMA, Naoki (15:50~16:20)

1S3-15 Medium and Long-Term Program Lecture Nanostructure and Thermoelectric Property of PEDOT:PSS Film (NRI, AIST) ○ISHIDA, Takao; MUKAIDA, Masaichi; WEI, Qingshou; KIRIHARA, Kazuhiro; NAITOH, Yasuhisa (16:20~16:50)

Challenges to solve environmental and energy issues based on Elements Strategy Initiative

Friday, March 27, AM

(10 : 00~10 : 05)

2S3-01 Medium and Long-Term Program Lecture Opening Remarks (Grad. Sch. Eng., The Univ. of Tokyo) ○NOZAKI, Kyoko (10:00~10:05)

Chair: NOZAKI, Kyoko (10 : 05~11 : 05)

2S3-02 Medium and Long-Term Program Lecture How can we challenge to the climate change of chemical industry by innovative chemistry and science? (MCRC) ○SETOYAMA, Toru (10:05~10:35)

2S3-03 Medium and Long-Term Program Lecture Electrochemical application of boron-doped diamond electrodes (Fac. Sci. Tech., Keio Univ.; CREST, JST; ACCEL, JST) ○EINAGA, Yasuaki (10:35~11:05)

Chair: KITAGAWA, Hiroshi (11 : 05~12 : 05)

2S3-04 Medium and Long-Term Program Lecture New Trend in Sodium-Ion Battery (IMCE, Kyushu Univ.) ○OKADA, Shigetō (11:05~11:35)

2S3-05 Medium and Long-Term Program Lecture Electrode Reactions and Basic Property of Lithium Peroxide Batteries - A New Battery System for High Energy Density - (Grad. Sch. Eng., The Univ. of Tokyo) ○HIBINO, Mitsuhiro; MIZUNO, Noritaka (11:35~12:05)

(12 : 05~12 : 10)

2S3-06 Medium and Long-Term Program Lecture Closing Remarks (Kyoto Univ.) ○KITAGAWA, Hiroshi (12:05~12:10)

Cutting-edge researches of small molecule transformation: Energy innovation by metal complex and semiconductor photocatalysts

Friday, March 27, PM

(13 : 30~13 : 35)

2S3-07 Medium and Long-Term Program Lecture Introductory remarks (Grad. Sch. Sci., Tohoku Univ.) ○YAMASHITA, Masahiro (13:30~13:35)

Chair: CHANG, Ho-chol (13 : 35~15 : 25)

2S3-08 Medium and Long-Term Program Lecture Water Oxidation Catalyzed by Multinuclear Metal Complexes (IMS LCCMS) ○MASAOKA, Shigeyuki (13:35~14:05)

2S3-09 Medium and Long-Term Program Lecture Interconver-

sion between CO₂ and formic acid for hydrogen storage (AIST Energy Technology Research Institute) ○HIMEDA, Yuichiro (14:05~14:45)

2S3-10 Medium and Long-Term Program Lecture Photocatalysis of hybrid photocatalysts of metal-complex and semiconductor for CO₂ reduction (Grad. Sch. Sci., Eng., Tokyo Tech) ○ISHITANI, Osamu (14:45~15:25)

Chair: YAMAUCHI, Miho (15 : 40~17 : 30)

2S3-11 Medium and Long-Term Program Lecture Reduction of CO₂ at Boron-Doped Diamond (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○NAKATA, Kazuya (15:40~16:10)

2S3-12 Medium and Long-Term Program Lecture Energy Innovation Based on Hydrogen Activation (Grad. Sch. Eng., Kyushu Univ.) ○OGO, Seiji (16:10~16:50)

2S3-13 Medium and Long-Term Program Lecture Dinitrogen Activation by Multimetallic Titanium Polyhydrides (RIKEN) ○HOU, Zhaomin (16:50~17:30)

Advances in locally-energetic nano-reaction field in liquid

Sunday, March 29, AM

(9 : 30 ~ 9 : 35)

4S3-01 Special Program Lecture opening address (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○FUMITAKA, Mafune (09:30~09:35)

Chair: KAJIMOTO, Shinji (9 : 35 ~ 10 : 25)

4S3-02 Special Program Lecture Preparation of Organic nanoparticles and their potential applications (Fac. Eng., Ehime Univ.) ○TSUYOSHI, Asahi (09:35~10:00)

4S3-03 Special Program Lecture Preparation and Optical Properties of Functionalized Inorganic Nanoparticle Prepared by Laser Ablation in Liquid (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○HIROYUKI, Wada (10:00~10:25)

Chair: KOSHIZAKI, Naoto (10 : 40~12 : 20)

4S3-04 Special Program Lecture Control of the agglomeration-fusion process of nanoparticles using laser irradiation in liquids (Grad. Sch. Fac. Sci. Eng., Shimane Univ.; IMCE, Kyushu Univ.; NRI, AIST; Grad. Fac. Eng., Hokkaido Univ.) ○TSUJI, Takeshi; TAKADE, Isami; HIGASHI, Yuuma; TSUJI, Masaharu; ISHIKAWA, Yoshie; KOSHIZAKI, Naoto (10:40~11:05)

4S3-05 Special Program Lecture Improvement in Sensitivity of Underwater Laser-Induced Breakdown Spectroscopy by the Control of Plasma (Grad. Sch. Eng., Kyoto Univ.) ○TETSUO, Sakka (11:05~11:30)

4S3-06 Special Program Lecture Thermo-plasmonic properties exhibited by gold nanoparticles (The Univ. of Tokushima) ○SHUICHI, Hashimoto (11:30~11:55)

4S3-07 Special Program Lecture Biological Application of Laser Ablation in Liquid (Genesis Research Institute, Inc. East Tokyo Laboratory) ○YOSHIHIRO, Takeda (11:55~12:20)

Creation of precise organic synthesis and functional materials based on molecular space

Sunday, March 29, PM

(13 : 30~13 : 35)

4S3-08 Special Program Lecture Opening Remarks (Grad. Sch. Fish. Sci. Env. Studies, Nagasaki Univ.) ○SHIRAKAWA, Seiji (13:30~13:35)

Chair: OGOSHI, Tomoki (13 : 35~14 : 35)

4S3-09 Special Program Lecture Macroscopic Self-Assembly and Self-healing through Molecular Recognition (Grad. Sch. Sci., Osaka Univ.) ○HARADA, Akira (13:35~14:05)

4S3-10 Special Program Lecture Supramolecular Assemblies Comprising Charged π -Electronic Systems (Coll. Pharm. Sci., Ritsumeikan Univ.) ○MAEDA, Hiromitsu (14:05~14:35)

Chair: IMAHORI, Tatsushi (14 : 35~15 : 35)

4S3-11 Special Program Lecture Development of Cooperative Asymmetric Catalysts for Efficient Synthesis of Therapeutics (Microbial Chemistry Research Foundation Institute of Microbial Chemistry) ○KUMAGAI, Naoya (14:35~15:00)

4S3-12 Special Program Lecture Molecular Design of Organic Ion Pairs for Asymmetric Catalysis (Nagoya Univ. Institute of Transformative Bio-Molecules) ○OOI, Takashi (15:05~15:35)

Chair: MURASE, Takashi (15 : 35~16 : 30)

4S3-13 Special Program Lecture Specific molecular recognition, trapping and conversion in the nanospace of metal complexes (iCeMS, Kyoto Univ.) ○MATSUDA, Ryotaro (15:35~16:05)

4S3-14 Special Program Lecture Functionalization of crystalline

nano-cavities with flexible peptide metallo-macrocycles (Grad. Sch. Human. Sci., Ochanomizu Univ.) ○MIYAKE, Ryosuke (16:05~16:30)

Room S4

Bldg.14 1422

Element-Block Polymers: Theory, Synthesis and Application

Thursday, March 26, AM

Chair: OHSHITA, Joji (9 : 30 ~ 10 : 40)

1S4-01 Special Program Lecture New Polymeric Materials Based on Element-Blocks (Grad. Sch. Eng., Kyoto Univ.) ○CHUJO, Yoshiki (09:30~09:50)

1S4-02 Special Program Lecture Synthesis and Reactivity of Homo- and Hetero-metallic Inorganic Element-blocks (Grad. Sch. Eng. Sci., Osaka Univ.) ○TSURUGI, Hayato (09:50~10:15)

1S4-03 Special Program Lecture Creation of Host-Guest Block Polymer Materials (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○UEMURA, Takashi (10:15~10:40)

Chair: MATSUKAWA, Kimihiro (10 : 40~11 : 35)

1S4-04 Special Program Lecture π -Conjugated Polymers Containing Versatile Elements-blocks Through Polymer Reactions (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○TOMITA, Ikuyoshi (10:40~11:10)

1S4-05 Special Program Lecture Smart hybrid materials synthesized by organic-inorganic simultaneous precipitation polymerization method (Fac. Eng., OIT) ○FUJII, Syuji (11:10~11:35)

Chair: NAKA, Kensuke (11 : 35~12 : 30)

1S4-06 Special Program Lecture Precise Structure Analyses by Small-Angle X-ray Scattering for Polymeric Materials Based on Element-Blocks (KIT Biobased Materials Science) ○SAKURAI, Shinichi (11:35~12:00)

1S4-07 Special Program Lecture Reaction Design toward Photoreduction of CO₂ by Polyene with Ru-Complex as Side Chain (Grad. Sch. Eng., Kyoto Univ.) ○FUENO, Hiroyuki; OMAE, Shin; ○TANAKA, Kazuyoshi (12:00~12:30)

Molecular Science for Complex Systems: Approach by Advanced Measurement Techniques

Thursday, March 26, PM

Chair: FUJII, Masaaki (13 : 30~14 : 30)

1S4-08 Medium and Long-Term Program Lecture Time-resolved observation of functionally-important molecular flexibility (Grad. Sch. Sci., Osaka Univ.) ○MIZUTANI, Yasuhisa (13:30~14:00)

1S4-09[#] Medium and Long-Term Program Lecture Gas phase spectroscopy of soft molecules - neurotransmitters and partial peptide of receptor protein (Chem. Res. Lab., Tokyo Tech) ○ISHIUCHI, Shun-ichi (14:00~14:30)

Chair: TAHARA, Tahei (14 : 30~15 : 30)

1S4-10 Medium and Long-Term Program Lecture Atomic resolution imaging of soft molecular systems using scanning probe microscopy (Advanced Key Technologies Div., NIMS) ○SHIMIZU, Tomoko (14:30~15:00)

1S4-11 Medium and Long-Term Program Lecture Continuous tracking of protein folding at microsecond resolution by a line confocal detection of single molecule fluorescence (IMRAM, Tohoku Univ.) ○TAKAHASHI, Satoshi; SAITO, Masataka; KAMAGATA, Kiyoto; OIKAWA, Hiroyuki (15:00~15:30)

Chair: MIZUTANI, Yasuhisa (16 : 00~17 : 00)

1S4-12 Medium and Long-Term Program Lecture Observation and elucidation of soft molecular systems by new single molecule spectroscopy (RIKEN) ○TAHARA, Tahei (16:00~16:30)

1S4-13 Medium and Long-Term Program Lecture Dynamics of biomolecular motors studied by gold nanoprobe (NINS Okazaki Inst. Integ. Biosci. and Inst. Mol. Sci.) ○IINO, Ryota (16:30~17:00)

(17 : 00~17 : 30)

1S4-14 Medium and Long-Term Program Lecture Discussion (Grad. Sch. Sci., Osaka Univ.) ○MIZUTANI, Yasuhisa (17:00~17:30)

**Molecular Design and Molecular Technology:
Molecular Technology for Environment, Resources, Safe and Reliable Society**

Friday, March 27, PM

(13 : 00~13 : 10)

2S4-01 Medium and Long-Term Program Lecture Introductory Remarks (Grad. Sch. Eng., The Univ. of Tokyo) ○KATO, Takashi (13:00~13:05)

2S4-02 Medium and Long-Term Program Lecture Molecular Technology (Chubu Univ.) ○YAMAMOTO, Hisashi (13:05~13:10)

Chair: SANDO, Shinsuke (13 : 10~14 : 10)

2S4-03 Medium and Long-Term Program Lecture Development of Molecular Technology for Solar Energy Conversion to Chemical Energy (Grad. Sch. Sci., Eng., Tokyo Tech) ○ISHITANI, Osamu (13:10~13:30)

2S4-04 Medium and Long-Term Program Lecture Development of Molecular Technology for Ideal Chemical Transformations (Nagoya Univ. Institute of Transformative Bio-Molecules) ○OOI, Takashi (13:30~13:50)

2S4-05 Medium and Long-Term Program Lecture Exploitation of Coordination Molecular Technology That Leads to the Creation of New Conceptual Ionic Solids with New Functionality (Grad. Sch. Sci., Osaka Univ.) ○KONNO, Takumi (13:50~14:10)

Chair: OOI, Takashi (14 : 10~15 : 10)

2S4-06 Medium and Long-Term Program Lecture Sensitive Molecular Technologies for the analysis of biomolecules in vivo (Grad. Sch. Eng., The Univ. of Tokyo) ○SANDO, Shinsuke (14:10~14:30)

2S4-07 Medium and Long-Term Program Lecture Molecular technology for in-situ protein analysis based on live-cell organic chemistry (Grad. Sch. Eng., Kyoto Univ.) ○HAMACHI, Itaru (14:30~14:50)

2S4-08 Medium and Long-Term Program Lecture Establishing Computational Molecular Technology towards Macroscopic Chemical Phenomena -Molecular Control of Complex Chemical Reactions, Stereospecificity and Aggregate Structures- (Grad. Sch. Info. Sci., Nagoya Univ.) ○NAGAOKA, Masataka (14:50~15:10)

(15 : 20~15 : 25)

2S4-09 Medium and Long-Term Program Lecture PRESTO Research: Molecular Technology (Grad. Sch. Eng., The Univ. of Tokyo) ○KATO, Takashi (15:20~15:25)

Chair: OGURI, Hiroki (15 : 25~16 : 10)

2S4-10 Medium and Long-Term Program Lecture Creation of an innovative organic semiconductor molecular system (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○OKAMOTO, Toshihiro (15:25~15:40)

2S4-11 Medium and Long-Term Program Lecture Creation of Organic Magneto-Optical Materials Utilizing Magneto-LC Effects and Photonic Structures (Grad. Sch. Eng. Sci., Osaka Univ.) ○UCHIDA, Yoshiaki (15:40~15:55)

2S4-12 Medium and Long-Term Program Lecture Creative Macromolecular Chains via Bond Manipulation: Advanced Functions from Control of Position, Sequence, and Topology (Grad. Sch. Eng., Kyoto Univ.) ○OUCHI, Makoto (15:55~16:10)

Chair: OUCHI, Makoto (16 : 10~16 : 55)

2S4-13 Medium and Long-Term Program Lecture Development of Synthetic Protein Mimics toward Molecular Treatment Technology for Protein Diseases (IMRAM, Tohoku Univ.) ○MURAOKA, Takahiro (16:10~16:25)

2S4-14 Medium and Long-Term Program Lecture Chemical Modification of Graphene Using Self-Assembly of Reactive Organic Molecules (Grad. Sch. Eng. Sci., Osaka Univ.) ○TAHARA, Kazukuni (16:25~16:40)

2S4-15 Medium and Long-Term Program Lecture Tunable synthesis and functionalization of 2-dimensional carbon nanosheets (RCIS, Okayama Univ.) ○NISHINA, Yuta (16:40~16:55)

Chair: OKAMOTO, Toshihiro (16 : 55~17 : 55)

2S4-16 Medium and Long-Term Program Lecture Photoinduced structural dynamics of functional organic materials explored with a femtosecond electron probe. (MSL, Tokyo Tech) ○HADA, Masaki (16:55~17:10)

2S4-17 Medium and Long-Term Program Lecture Creation of Ultra-microfabrication Molecular Materials and its Self-Assembly Technology (Grad. Sch. Sci., Eng., Tokyo Tech) ○HAYAKAWA, Teruaki (17:10~17:25)

2S4-18 Medium and Long-Term Program Lecture Development of divergent synthetic process exploiting a multipotent intermediate to generate skeletally diverse molecules (Fac. Sci., Hokkaido Univ.) ○OGURI, Hiroki (17:25~17:40)

2S4-19 Medium and Long-Term Program Lecture Molecular

Technology Utilizing DNA Nanostructures for The Development of Topological Supramolecules (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○KUZUYA, Akinori (17:40~17:55)

(17 : 55~18 : 10)

2S4-20 Medium and Long-Term Program Lecture Concluding Remarks (Chubu Univ.; The Univ. of Tokyo) YAMAMOTO, Hisashi; ○KATO, Takashi (17:55~18:10)

Application of Intense Neutron-Beam toward Structure and Property Analysis of Material

Sunday, March 29, AM

Chair: HASHIZUME, Daisuke (9 : 30 ~11 : 10)

4S4-01 Special Program Lecture Power of Neutron Scattering ~ Studies in J-PARC (ICR, Kyoto Univ.) ○KANAYA, Toshiji (09:30~09:45)

4S4-02 Special Program Lecture Basic Theory and Application of Small-Angle Neutron Scattering (KURRI) ○SUGIYAMA, Masaaki (09:45~10:15)

4S4-03 Special Program Lecture Basic and Application of Neutron Diffraction to the Structure Analysis of Polymers (Toyota Technological Institute) ○TASHIRO, Kohji (10:15~10:40)

4S4-04 Special Program Lecture Basic Theory and Current Status of Crystal Structure Analysis by using High-Intensity Pulsed Neutron (JAEA J-PARC Center) ○OHARA, Takashi (10:40~11:10)

Chair: TAKAYA, Hikaru (11 : 10~12 : 30)

4S4-05 Special Program Lecture What neutron diffraction tells us about hydration water around biomacromolecules. (Sch. Sci., Kitasato Univ.) ○SUGAWARA, Youko (11:10~11:30)

4S4-06 Special Program Lecture Using and benefits of neutron diffraction method in organic structural chemistry (RIKEN CEMS) ○HASHIZUME, Daisuke (11:30~11:50)

4S4-07 Special Program Lecture Crystal and magnetic structure analysis of transition-metal oxides: Studies by neutron diffraction on functional oxide materials (ICR, Kyoto Univ.) ○SHIMAKAWA, Yuichi (11:50~12:10)

4S4-08 Special Program Lecture Future battery technology and neutron science (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○KANNO, Ryoji (12:10~12:30)

The development of a cell diagnostic system through the combination of medical science and engineering

Sunday, March 29, PM

(13 : 30~13 : 35)

4S4-09 Special Program Lecture Introduction (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○OGURA, Shun-ichiro (13:30~13:35)

Chair: YOSHINO, Tomoko (13 : 35~14 : 35)

4S4-10 Special Program Lecture QCM-d analysis of protein adsorption and cell adhesion on the polymer brush/ SAM surfaces (Grad. Sch. Eng., The Univ. of Tokyo) ○TAKAI, Madoka; LEE, Chih-hao; KUSHIRO, Keiichiro (13:35~14:05)

4S4-11 Special Program Lecture Multiparameter analysis of tissue models by multi-functional nano pipette (Grad. Sch. Environmental Studies, Tohoku Univ.) ○SHIKU, Hitoshi (14:05~14:35)

Chair: OGURA, Shun-ichiro (14 : 35~15 : 30)

4S4-12 Special Program Lecture Development of enrichment device for Circulating Tumor Cells (Hitachi Chemical Co.,Ltd. New Business Development Headquarters) ○KANBARA, Hisashige (14:35~15:05)

4S4-13 Special Program Lecture Development of cancer diagnostic method using 5-Aminolevulinic Acid (ALA) (SBI Pharmaceuticals Co., Ltd. Research Institute) ○ISHIZUKA, Masahiro; OGURA, Shun-ichiro; INOUE, Keiji (15:05~15:30)

Chair: YAMAGUCHI, Motoo (15 : 30~16 : 30)

4S4-14 Special Program Lecture Composites Composed of Nanoparticles for Nanomedicine Devices (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○KITAMOTO, Yoshitaka (15:30~16:00)

4S4-15 Special Program Lecture Development of the photomedicines for the advanced phototherapy on the basis of medical-engineering collaboration (Grad. Sch. Mat. Sci., NAIST; Nagoya City Univ. Grad. Sch. Med. Sci.; Okayama Univ. of Sci. Res. Inst. Nat. Sci.) ○YANO, Shigenobu; KATAOKA, Hiromi; TANAKA, Mamoru; HAYASHI, Noriyuki; JOH, Takashi; AKASHI, Haruo (16:00~16:30)

Room S5

Bldg.14 1423

A New Paradigm for "MONODZUKURI" : Initiated with Innovative Synthetic Transformations

Thursday, March 26, AM

(9 : 30 ~ 9 : 40)

1S5-01 Special Program Lecture Introduction of Symposium (RIKEN Biofunctional Synthetic Chemistry Laboratory) ○TANAKA, Katsunori (09:30~09:40)

Chair: IGAWA, Kazunobu (9 : 40 ~ 10 : 15)

1S5-02 Special Program Lecture Selective Coupling Reactions under Iron Catalysis (ICR, Kyoto Univ.) ○NAKAMURA, Masaharu (09:40~10:15)

Chair: NAMBA, Kosuke (10 : 15~10 : 35)

1S5-03 Special Program Lecture Efficient Synthetic Access to Polycyclic aromatic compounds and Development of their Function (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○HAMURA, Toshiyuki (10:15~10:35)

Chair: OISHI, Shinya (10 : 35~11 : 10)

1S5-04 Special Program Lecture Molecular technology for the discovery of pseudo-natural peptides and its innovation (Grad. Sch. Sci., The Univ. of Tokyo) ○SUGA, Hiroaki (10:35~11:10)

Chair: TSUJII, Hayato (11 : 20~11 : 55)

1S5-05 Special Program Lecture Linking chemistry by aryl links (Grad. Sch. Sci., Tohoku Univ.) ○ISOBE, Hiroyuki (11:20~11:55)

Chair: YOKOSHIMA, Satoshi (11 : 55~12 : 30)

1S5-06 Special Program Lecture Lessons from Hybrid Natural Products (Grad. Sch. Sci., Eng., Tokyo Tech) ○SUZUKI, Keisuke (11:55~12:30)

Frontiers of Development of Photofunctional Materials Utilizing Low-Dimensional Structures of Inorganic Compounds

Thursday, March 26, PM

(13 : 30~13 : 35)

1S5-07 Special Program Lecture Introduction (MANA, NIMS) ○IDE, Yusuke (13:30~13:35)

Chair: SASAI, Ryo (13 : 35~15 : 10)

1S5-08 Special Program Lecture Construction of heterogeneous molecular catalysis systems using nanoporous materials (Toyota Central R&D Labs., Inc.) ○INAGAKI, Shinji (13:35~14:05)

1S5-09 Special Program Lecture Host-guest reactions of low-dimensional nanospace materials (Waseda Univ. School of Education) ○OGAWA, Makoto (14:05~14:35)

1S5-10 Special Program Lecture Hydrogen Peroxide Synthesis from Water and Molecular Oxygen by Visible-Light-Responsive Layered Photocatalysts (RCSE, Osaka Univ.) ○SHIRAIISHI, Yasuhiro (14:35~15:10)

Chair: HISANAO, Usami (15 : 20~16 : 25)

1S5-11 Special Program Lecture Photochemical reactions controlled by macroscopic structures of aggregated low-dimensional inorganic particles (KIT Department of Applied Chemistry) ○NAKATO, Teruyuki (15:20~15:50)

1S5-12 Special Program Lecture Design and applications of plasmonic catalysts using nano-space (Grad. Sch. Eng., Osaka Univ.) ○YAMASHITA, Hiromi (15:50~16:25)

(16 : 25~16 : 30)

1S5-13 Special Program Lecture Closing remarks (Grad. Sch. Med., Yamaguchi Univ.) ○KAWAMATA, Jun (16:25~16:30)

Frontier of Biologics, Nucleotide Therapeutics by Chemical Biology

Sunday, March 29, AM

(9 : 30 ~ 9 : 35)

4S5-01 Special Program Lecture Welcome and Introductory Remarks (IMRAM, Tohoku Univ.) ○WADA, Takehiko (09:30~09:35)

Chair: WADA, Takehiko (9 : 35 ~ 10 : 00)

4S5-02 Special Program Lecture New Targets of Pharmaceutical Products; G-quadruplexes of DNA and RNA (FIBER, Konan Univ.; FIRST, Konan Univ.) ○SUGIMOTO, Naoki (09:35~10:00)

Chair: TAKENAKA, Shigeori (10 : 00~10 : 50)

4S5-03 Special Program Lecture Studies of synthetic nucleic acids capable of controlling gene expression (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○SEKINE, Mitsuo (10:00~10:25)

4S5-04 Special Program Lecture Heading towards practical applications for oligonucleotide therapeutics (Daiichi Sankyo Co., Ltd. New Modality Research Laboratories) ○KOIZUMI, Makoto (10:25~10:50)

Chair: HAMACHI, Itaru (10 : 50~11 : 40)

4S5-05 Special Program Lecture Lab on Chip based Companion diagnostics (Grad. Sch. Eng., Nagoya Univ.; FIRST RCIN, Nagoya Univ.; HRI, AIST) ○BABA, Yoshinobu (10:50~11:15)

4S5-06 Special Program Lecture Regulatory science research toward practical use of oligonucleotide therapeutics (NIHS Division of Molecular Target and Gene Therapy Products) ○INOUE, Takao (11:15~11:40)

Chair: TSUMOTO, Kohei (11 : 40~12 : 30)

4S5-07 Special Program Lecture Medicinal Chemistry for Oligonucleotide-based Drug Discovery (Osaka Univ. Grad. Sch. Pharm. Sci.) ○OBIKA, Satoshi (11:40~12:05)

4S5-08 Special Program Lecture Future direction of oligonucleotide therapy. (Tokyo Med. and Dental Univ.) ○YOKOTA, Takanori (12:05~12:30)

(12 : 30~12 : 35)

4S5-09 Special Program Lecture Closing remark (DAIICHI SANKYO COMPANY) ○KOIZUMI, Makoto (12:30~12:35)

Luminescence Chemistry Ensemble: From Crystal to Living Organism - Advances in Luminescence Chemistry in Aggregating Systems

Sunday, March 29, PM

(13 : 30~13 : 35)

4S5-10 Special Program Lecture Opening Remarks (IIS, The Univ. of Tokyo) ○MUTAI, Toshiki (13:30~13:35)

Chair: KATO, Masako (13 : 35~14 : 00)

4S5-11 Special Program Lecture Photoinduced enhancement of auriphilic interaction and single-crystal-to-single-crystal transition: Photochromism and crystal jumping (Grad. Fac. Eng., Hokkaido Univ.) ○ITO, Hajime (13:35~14:00)

Chair: SAITO, Shohei (14 : 00~14 : 25)

4S5-12 Special Program Lecture Photophysical Properties of Conformationally Constrained Oligo-p-phenylenevinyls (Grad. Sch. Sci., The Univ. of Tokyo) ○TSUJII, Hayato (14:00~14:25)

Chair: AMIMOTO, Kiichi (14 : 25~14 : 50)

4S5-13 Special Program Lecture Effects of intermolecular interactions on the excited-state dynamics and emission properties in crystals (Fac. Sci., Kyushu Univ.) ○SEKIYA, Hiroshi (14:25~14:50)

Chair: IKEDA, Hiroshi (14 : 50~15 : 15)

4S5-14 Special Program Lecture Time resolved Fluorescence analysis for biochemical applications (HORIBA, Ltd Advanced R&D Center) ○OTA, Chikashi (14:50~15:15)

Chair: SHIGEMITSU, Yasuhiro (15 : 15~15 : 40)

4S5-15 Special Program Lecture Theoretical and computational chemical study on open-shell character and optical responses of single molecules and molecular aggregates (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAKANO, Masayoshi (15:15~15:40)

Chair: SASABE, Hisashiro (15 : 40~16 : 05)

4S5-16 Special Program Lecture New functional dyes based on pyrene and anthracene chromophores (Grad. Sch. Sci., Eng., Tokyo Tech) ○KONISHI, Gen-ichi (15:40~16:05)

Chair: HIRANO, Takashi (16 : 05~16 : 30)

4S5-17 Special Program Lecture Cruising inside cells (RIKEN) ○MIYAWAKI, Atsushi (16:05~16:30)

Room S6

Bldg.14 1424

Dynamic Ordering in Biomolecular and Artificial Molecular Systems: Understanding at Molecular Level

Thursday, March 26, AM

(9 : 30 ~ 9 : 35)

1S6-01 Special Program Lecture Explanation of aim (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○HIRAOKA, Shuichi (09:30~09:35)

Chair: HIRAOKA, Shuichi (9 : 35 ~ 10 : 35)

1S6-02 Special Program Lecture Dynamics of biomolecular self-organization (Okazaki Institute for Integrative Bioscience) ○KATO, Koichi (09:35~10:05)

1S6-03 Special Program Lecture Autocatalytic propagation of supramolecular assemblies (NIMS Organic Materials Group) ○SUGIYASU, Kazunori (10:05~10:35)

Chair: KATO, Koichi (10 : 35~11 : 30)

1S6-04 Special Program Lecture The reconstituted cell-free protein synthesis system - For what? (GeneFrontier Corp. BD) ○KANAMORI, Takashi (10:35~11:00)

1S6-05 Special Program Lecture Molecular Theories for Self-organization and order formation (Grad. Sch. Eng., Kyoto Univ.) ○SATO, Hirofumi (11:00~11:30)

Chair: SUGIYASU, Kazunori (11 : 30~12 : 30)

1S6-06 Special Program Lecture A Formation Mechanism of Coordination Self-Assemblies (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○HIRAOKA, Shuichi (11:30~12:00)

1S6-07 Special Program Lecture Topology Change and Assemble of Supramolecular Polymer (Grad. Sch. Sci., Eng., Tokyo Tech) ○TOSHIKAZU, Takata (12:00~12:30)

A new chemistry that takes place in the hyper-nano-space

Thursday, March 26, PM

(13 : 30 ~ 13 : 35)

1S6-08 Special Program Lecture Short speech on the symposium on "Hypernanospace" (Fac. Sci. Eng., Waseda Univ.) ○KUDODA, Kazuyuki (13:30~13:35)

Chair: KUDODA, Kazuyuki (13 : 40~15 : 00)

1S6-09 Special Program Lecture Hyper-nano-space Design Tomorrow through Overview of S&T in Japan on the basis of evidences (JST) ○NAKAYAMA, Tomohiro (13:40~13:55)

1S6-10 Special Program Lecture Nanostructures of water splitting photocatalysts (Grad. Sch. Eng., The Univ. of Tokyo) ○DOMEN, Kazunari (13:55~14:20)

1S6-11 Special Program Lecture Strategy toward High Performance Polymerization Catalysts by Spacial Control (Grad. Sch. Eng., The Univ. of Tokyo) ○NOZAKI, Kyoko (14:20~14:40)

1S6-12 Special Program Lecture How to design the "hyper nano space" for its industrial applications? (MCRC) ○SETOYAMA, Tooru (14:40~15:00)

Chair: SETOYAMA, Tooru (15 : 05~16 : 30)

1S6-13 Special Program Lecture Direct Observation of Active Sites in Microporous Zeolites (Grad. Sch. Sci., Osaka Univ.) ○SAKAMOTO, Yasuhiro (15:05~15:20)

1S6-14 Special Program Lecture Chemistry of Coordination Space Using PCP/MOF (iCeMS, Kyoto Univ.) ○KITAGAWA, Susumu (15:20~15:45)

1S6-15 Special Program Lecture Molecules and Ions in Nanoscale Confined Fields (Shinshu Univ.) ○KANEKO, Kastumi (15:45~16:10)

1S6-16 Special Program Lecture Materials development in automotive company (Nissan Motor Co., Ltd.) ○HARATA, Hiroaki (16:10~16:30)

Coordination synergy: New developments in integrated material science

Sunday, March 29, PM

(13 : 30 ~ 13 : 35)

4S6-01 Special Program Lecture Opening remarks (Grad. Sch.

Pure Appl. Sci., Univ. of Tsukuba) ○OSHIO, Hiroki (13:30~13:35)

Chair: OSHIO, Hiroki (13 : 35~14 : 50)

4S6-02 Special Program Lecture Porous Materials and Their Mesoscopic Chemistry (Grad. Sch. Eng., Kyoto Univ.) ○KITAGAWA, Susumu (13:35~14:00)

4S6-03 Special Program Lecture Theoretical design of nanostructured reaction fields with photonic-electronic anisotropic functionality (IMS) ○NOBUSADA, Katsuyuki (14:00~14:25)

4S6-04 Special Program Lecture Exploration of Directional Synergy Functions through the Interfacial Control of Cluster Complexes (Fac. Env. Earth Sci., Hokkaido Univ.) ○KONISHI, Katsuaki (14:25~14:50)

Chair: TERANISHI, Toshiharu (14 : 50~16 : 30)

4S6-05 Special Program Lecture Construction of New Interfaces of Porous Coordination Polymers by Post-Synthetic Modification with Polymeric Materials (Sch. Sci., Hokkaido Univ.) ○SADA, Kazuki (14:50~15:15)

4S6-06 Special Program Lecture Meta-stable cluster compounds by the synergy in a coordination nanospace (Chem. Res. Lab., Tokyo Tech) ○IMAOKA, Takane; YAMAMOTO, Kimihisa (15:15~15:40)

4S6-07 Special Program Lecture Efficient Catalyst Surfaces Regulated by Surface Coordination Synergy (RCMS, Nagoya Univ.) ○TADA, Mizuki (15:40~16:05)

4S6-08 Special Program Lecture Development of efficient light energy conversion systems based on synergy reaction fields of molecules and semiconductors (Grad. Sch. Eng., Kyoto Univ.) ○ABE, Ryu (16:05~16:30)

(16 : 30 ~ 16 : 35)

4S6-09 Special Program Lecture summary (DENSO Corp.) ○IWASE, Katsunori (16:30~16:35)

Room S7

Bldg.14 1431

Fundamentals and Applications of Synchrotron Micro- and Powder Crystal Structure Analysis around SPring-8

Sunday, March 29, PM

Chair: TAKAYA, Hikaru (13 : 30~14 : 40)

4S7-01 Special Program Lecture The Future Crystal Vision of Chemistry Illuminated by Synchrotron-based Crystallography (JASRI) ○SAKATA, Makoto (13:30~13:40)

4S7-02 Special Program Lecture Fundamentals of Single Crystal Structure Analysis with Synchrotron Radiation (JASRI) ○YASUDA, Nobuhiro (13:40~14:20)

4S7-03 Special Program Lecture Structural Analyses of Nanocarbons Using Synchrotron Radiation (ICR, Kyoto Univ.) ○KAYAHARA, Eiichi (14:20~14:40)

Chair: IWAMOTO, Takahiro (14 : 50~16 : 30)

4S7-04 Special Program Lecture Fundamental and Practical aspect of the Structure Determination from Powder Diffraction Data technique (Grad. Sch. Sci., Eng., Tokyo Tech) ○UEKUSA, Hidehiro (14:50~15:30)

4S7-05 Special Program Lecture Structural Study of Cathode Materials for Lithium-ion Batteries using Synchrotron X-ray Powder Diffraction (Toda Kogyo Corp.) ○MISHIMA, Yuji (15:30~16:00)

4S7-06 Special Program Lecture Structural Investigation of Phase Change Materials (Panasonic Corp.) ○MATSUNAGA, Toshiyuki (16:00~16:30)

Room SB

Bldg.3 341

Exploration of Nature of Electrostatic Interaction in Aqueous Solution

Thursday, March 26, AM

(9 : 30 ~ 9 : 35)

1SB-01 Special Program Lecture Opening Remarks (Grad. Sch. Sci., Eng., Tokyo Tech) ○OKADA, Tetsuo (09:30~09:35)

Chair: HIBARA, Akihide (9 : 35 ~ 10 : 45)

1SB-02 Special Program Lecture Development and spectroscopic study on novel reaction fields for solutions utilizing plasma generation techniques (Fac. Sci., Tokyo Univ. of Sci.) ○YUI, Hiroharu (09:35~10:10)

1SB-03 Special Program Lecture Development and functionalization of the separation materials utilizing electrostatic interaction (Coll. Biosci. Biotechnol., Chubu Univ.) ○INOUE, Yoshinori (10:10~10:45)

Chair: YUI, Hiroharu (10 : 45~11 : 20)

1SB-04 Special Program Lecture Interactions in Aqueous Phase Studied by Surface Forces Measurement (WPI-AIMR, Tohoku Univ.) ○KURIHARA, Kazuo (10:45~11:20)

Chair: OKADA, Tetsuo (11 : 20~12 : 30)

1SB-05 Special Program Lecture Hydration and ion binding on polymers-thermosensitive polymer dispersion systems and counterion binding of polyelectrolytes- (Grad. Sch. Sci., Eng., Tokyo Tech) ○SATO, Mitsuru (11:20~11:55)

1SB-06 Special Program Lecture Nano-Structure Formation by an Electrostatic Interaction between Macromolecules and Regulation by Ion-Exchange (Fac. Sci., Kyushu Univ.) ○AKIYAMA, Ryo (11:55~12:30)

Photo-sensing properties of metal complex for Future advanced materials

Thursday, March 26, PM

(13 : 30~13 : 35)

1SB-07 Special Program Lecture Introduction (Fac. Sci. Eng., Chuo Univ.) ○HAGA, Masa-aki (13:30~13:35)

Chair: HAGA, Masa-aki (13 : 35~14 : 05)

1SB-08 Special Program Lecture Chameleon Luminophore: luminescent lanthanide coordination polymers for Sensing Temperatures (Grad. Fac. Eng., Hokkaido Univ.) ○HASEGAWA, Yasuchika (13:35~14:05)

Chair: NOZAKI, Koichi (14 : 05~14 : 35)

1SB-09 Special Program Lecture Fluorescence probes for detecting Vitamin C: Phthalocyaninatasilicon covalently linked to TEMPO radicals (IIS, The Univ. of Tokyo) ○ISHII, Kazuyuki (14:05~14:35)

Chair: ISHITANI, Osamu (14 : 35~15 : 05)

1SB-10 Special Program Lecture Development of multichromic complexes based on metalphilic interaction (Fac. Sci., Hokkaido Univ.) ○KOBAYASHI, Atsushi (14:35~15:05)

Chair: TAMIYAKI, Hitoshi (15 : 05~15 : 35)

1SB-11 Special Program Lecture Luminescent detection of tyrosine phosphorylation using terbium complexes (TUT School of Media Science) ○SUMAOKA, Jun (15:05~15:35)

Chair: ISHIDA, Hitoshi (15 : 35~16 : 05)

1SB-12 Special Program Lecture Metal ion sensor based on supramolecular formation with bridging ligands (Grad. Sch. Mat. Sci., NAIST) ○YUASA, Junpei (15:35~16:05)

Chair: KATO, Masako (16 : 05~16 : 35)

1SB-13 Special Program Lecture Mechanical sensing of luminescent gold isocyanide complexes: Response enhancement via molecular domino (Grad. Fac. Eng., Hokkaido Univ.) ○ITO, Hajime (16:05~16:35)

(16 : 35~16 : 40)

1SB-14 Special Program Lecture Wrap-up on the lecture (Canon Inc.) ○TSUBOYAMA, Akira (16:35~16:40)

Room SC

Bldg.3 342

Biosupramolecules for the creation of functional materials

Thursday, March 26, AM

(9 : 30 ~ 9 : 35)

1SC-01 Special Program Lecture General introduction (Fac. Sci., Hokkaido Univ.) ○KAKUGO, Akira (09:30~09:35)

Chair: TAKEUCHI, Masayuki (9 : 35 ~ 10 : 30)

1SC-02 Special Program Lecture Molecular Dynamics of Protein Needle (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○UENO, Takafumi

(09:35~09:50)

1SC-03 Special Program Lecture Operation mechanism of biological rotary supramolecular motors (NINS Okazaki Inst. Integ. Biosci. and Inst. Mol. Sci.) ○HINO, Ryota (09:50~10:10)

1SC-04 Special Program Lecture Molecular Structure and Environments Relating to Photosynthetic Electron Transfer in Photosystem II (Ehime Univ. PROS; PRESTO, JST) ○SUGIURA, Miwa (10:10~10:30)

Chair: NAITO, Masanobu (10 : 30~11 : 30)

1SC-05 Special Program Lecture Biophylactic signal molecules and development of their complex for immunomodulation (Fac. Sci. Tech., Keio Univ.) ○FUJIMOTO, Yukari (10:30~10:50)

1SC-06 Special Program Lecture Structure of YidC reveals a mechanism of Sec-independent membrane protein insertion (Grad. Sch. Bio. Sci., NAIST; PRESTO, JST) ○TSUKAZAKI, Tomoya; KUMAZAKI, Kaoru; CHIBA, Shinobu; TAKEMOTO, Mizuki; FURUKAWA, Arata; ITO, Koreaki; ISHITANI, Ryuichiro; NUREKI, Osamu (10:50~11:10)

1SC-07 Special Program Lecture Seeking the evolution and self-mentance in biology based on biological electron transfer (RIKEN CSRS) ○NAKAMURA, Ryuhei (11:10~11:30)

Chair: YOSHIZAWA, Michito (11 : 30~12 : 10)

1SC-08 Special Program Lecture Construction of Artificial Viral Capsids dressed up with Proteins, Nucleic Acids, and Nanoparticles (Grad. Sch. Eng., Tottori Univ.) ○MATSUURA, Kazunori (11:30~11:50)

1SC-09 Special Program Lecture Fabrication of MOF Motors (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○UEMURA, Takashi (11:50~12:10)

Chair: UENO, Takafumi (12 : 10~12 : 25)

1SC-10 Special Program Lecture Self-propelled active probe for sensing surface deformation (Fac. Sci., Hokkaido Univ.) ○KAKUGO, Akira (12:10~12:25)

(12 : 25~12 : 30)

1SC-11 Special Program Lecture Concluding remarks (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○UENO, Takafumi (12:25~12:30)

Cutting-Edge of Organocatalysts

Thursday, March 26, PM

(13 : 30~13 : 40)

1SC-12[#] Special Program Lecture Introduction of the special program (Grad. Sch. Sci., Tohoku Univ.) ○TERADA, Masahiro (13:30~13:40)

Chair: TERADA, Masahiro (13 : 40~15 : 00)

1SC-13[#] Special Program Lecture Stereoselective construction of chiral tetrasubstituted carbon stereogenic centers via organocatalytic Rauhut-Currier reaction (ISIR, Osaka Univ.) ○TAKIZAWA, Shinobu; SASAI, Hiroaki (13:40~14:00)

1SC-14[#] Special Program Lecture Chiral 1,2,3-Triazolium Salts for Catalytic Asymmetric Reactions (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.) ○OHMATSU, Kohsuke (14:00~14:20)

1SC-15[#] Special Program Lecture Development of C-C bond forming reaction involving chiral quaternary carbon atom construction using bifunctional organocatalysts (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○MISAKI, Tomonori (14:20~14:40)

1SC-16[#] Special Program Lecture Use of Carboxylic acid and Boronic acid as Organocatalyst (Grad. Sch. Sci., Kyoto Univ.) ○HASHIMOTO, Takuya (14:40~15:00)

Chair: HAYASHI, Yujiro (15 : 10~16 : 30)

1SC-17[#] Special Program Lecture Development of polymeric chiral organocatalyst and its application to asymmetric organocatalysis (Toyohashi Univ. of Tech.) ○HARAGUCHI, Naoki (15:10~15:30)

1SC-18[#] Special Program Lecture Synthetic Study of Alkaloids Using Asymmetric Organocatalytic Reactions (Grad. Sch. Sci. Technol., Kumamoto Univ.) ○ISHIKAWA, Hayato (15:30~15:50)

1SC-19[#] Special Program Lecture Design and Application of Simple Hydrogen Bond Donors as Enantioselective Catalysts (University of Chicago) ○RAWAL, Viresh (15:50~16:30)

Room A1

Bldg.14 1431

Resource, Next Generation Energy and Environment

Friday, March 27, AM

Challenge for Developing Rechargeable Lithium-Sulfur Batteries

(9:30~9:40)

2A1-04 Opening address (Fac. Sci. Tech., Keio Univ.) ○KATAYAMA, Yasushi (09:30~09:40)

Chair: KATAYAMA, Yasushi (9:40~10:40)

2A1-05 ATP Keynote Lecture Introduction of ALCA-SPRING Project on Development of High Performance Next Generation Lithium-Sulfur Batteries (Grad. Fac. Eng., Yokohama Natl. Univ.) ○WATANABE, Masayoshi (09:40~10:30)

2A1-10 ATP Incubation Time (10:30~10:40)

Chair: INOUE, Kenji (10:40~12:00)

2A1-11 ATP Invited Lecture Sulfur/Carbon Composite Cathode and Electrolytes for Li-S Batteries (Grad. Fac. Eng., Yokohama Natl. Univ.) ○DOKKO, Kaoru (10:40~11:10)

2A1-14 ATP Incubation Time (11:10~11:20)

2A1-15 ATP Invited Lecture Speciation Analysis of Next Generation Lithium-Sulfur Battery Based on the Spectrothermodynamics (Niigata Univ. Graduate School of Science and technology) ○UMEBAYASHI, Yasuhiro (11:20~11:50)

2A1-18 ATP Incubation Time (11:50~12:00)

Friday, March 27, PM

Chair: KUBOKI, Takashi (13:00~14:20)

2A1-25 ATP Invited Lecture of New Si-O-C composite material prepared by electrodeposition from organic electrolyte (Sch. Advanced Sci. Eng., Waseda Univ.) ○MOMMA, Toshiyuki (13:00~13:30)

2A1-28 ATP Incubation Time (13:30~13:40)

2A1-29 ATP Invited Lecture Charge and Discharge Characteristics of Si Nano-Flake Anode in LiTFSA/Glyme Electrolytes (Fac. Sci. Eng., Doshisha Univ.) ○INABA, Minoru; HARUTA, Masakazu; DOI, Takayuki (13:40~14:10)

2A1-32 ATP Incubation Time (14:10~14:20)

Chair: KATAYAMA, Yasushi (14:20~16:20)

2A1-33 ATP Invited Lecture Development of Carbon and Related Materials for Rechargeable Li-S Batteries (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○ISHIKAWA, Masashi; YAMAGATA, Masaki; UCHIDA, Satoshi; MATSUI, Yukiko; TAKAHASHI, Takuya (14:20~14:50)

2A1-36 ATP Incubation Time (14:50~15:00)

2A1-37 ATP Special Invited Lecture Introduction for the processes of next stage LIB (Sch. Advanced Sci. Eng., Waseda Univ.) ○OHSAKA, Tetsuya (15:00~15:40)

2A1-41 ATP Incubation Time (15:40~15:50)

2A1-42 Panel Discussion Challenge for Developing Rechargeable Lithium-Sulfur Batteries (Fac. Sci. Tech., Keio Univ.) (15:50~16:20)

Saturday, March 28, AM

Organic Synthesis for Utilization of Renewable Carbon Resources

(10:10~10:20)

3A1-08 Organic Synthesis for Utilization of Renewable Carbon Resources (Grad. Sch. Pharm. Sci., Tohoku Univ.) ○YAMAGUCHI, Masahiko (10:10~10:20)

Chair: YAMAGUCHI, Masahiko (10:20~12:00)

3A1-09 ATP Special Invited Lecture Development of bio-based materials from lignocellulose using ionic liquids (Coll. Sci. Eng., Kanazawa Univ.) ○TAKAHASHI, Kenji; SHIBATA, Yoshiki; YAMAGUCHI, Makoto; KAKUCHI, Ryohei; NINOMIYA, Kazuaki (10:20~11:00)

3A1-13 ATP Incubation Time (11:00~11:10)

3A1-14 ATP Special Invited Lecture Glucosamine Production and Functions- (Koyo Chemical Co.,Ltd) ○TAKAMORI, Yoshimori (11:10~11:50)

3A1-18 ATP Incubation Time (11:50~12:00)

Saturday, March 28, PM

Chair: YAMAGUCHI, Masahiko (13:00~13:50)

3A1-25 ATP Special Invited Lecture Analysis for the reactions of cellulases and chitinases: Observation of the single molecules and the neutron structural analysis (Grad. Sch. Agricultural and Life Sci., The Univ. of Tokyo) ○IGARASHI, Kiyohiko (13:00~13:40)

3A1-29 ATP Incubation Time (13:40~13:50)

Chair: KOBORI, Yoshihiro (13:50~16:20)

3A1-30 ATP Special Invited Lecture New Development of Biomass Utilization through Biotechnology (Grad. Sch. Eng., Kobe Univ.) ○KONDO, Akihiko (13:50~14:30)

3A1-34 ATP Incubation Time (14:30~14:40)

3A1-35 ATP Special Invited Lecture Biomass conversion by heterogeneous solid catalysts (CRC, Hokkaido Univ.) ○FUKUOKA, Atsushi (14:40~15:20)

3A1-39 ATP Incubation Time (15:20~15:30)

3A1-40 ATP Special Invited Lecture Efficient Synthesis of Glycosidic Compounds from Polysaccharide Biomass (Grad. Sch. Eng., Tohoku Univ.) ○SHODA, Shin-ichiro (15:30~16:10)

3A1-44 ATP Incubation Time (16:10~16:20)

Room A2

Bldg.14 1432

Topical Technology - New Materials Holding the Key to the Practical Use

Thursday, March 26, PM

Fabrication - Composition Technology and New Materials

(13:00~13:10)

1A2-25 Introduction from organizer (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○MATSUZAKI, Ryouzuke (13:00~13:10)

Chair: KOYANAGI, Jun (13:10~15:00)

1A2-26 ATP Keynote Lecture Type of Polymers and Their Application of Fiber Reinforced Plastics (Coll. Industrial Tech., Nihon Univ.) ○BEN, Goichi (13:10~14:00)

1A2-31 ATP Incubation Time (14:00~14:10)

1A2-32 ATP Special Invited Lecture Molecular simulation of composite materials (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○MATSUZAKI, Ryouzuke (14:10~14:50)

1A2-36 ATP Incubation Time (14:50~15:00)

Chair: MATSUZAKI, Ryouzuke (15:00~17:30)

1A2-37 ATP Special Invited Lecture Activity for fabrication of high-strength graphene composite (Fac. Ind. Sci. Technol., Tokyo Univ. of Sci.) ○KOYANAGI, Jun (15:00~15:40)

1A2-41 ATP Incubation Time (15:40~15:50)

1A2-42 ATP Special Invited Lecture Functionalization of Wrinkle and Graphene Materials (Fac. Eng., Tokyo Univ. of Sci.) ○ENDO, Hiroshi (15:50~16:30)

1A2-46 ATP Incubation Time (16:30~16:40)

1A2-47 ATP Special Invited Lecture Novel dissolution method of carbon nanotubes using inorganic salts (Akita Univ. Graduate School of Engineering and Resource Science) ○MATSUMOTO, Kazuya (16:40~17:20)

1A2-51 ATP Incubation Time (17:20~17:30)

Resource, Next Generation Energy and Environment

Friday, March 27, AM

Fuel Cells & Hydrogen Energy Technology at the beginning of the FCV year

(9:20~9:30)

2A2-03 General Introduction to this Symposium (IRCHE, Kyushu Univ.) ○SASAKI, Kazunari (09:20~09:30)

Chair: SASAKI, Kazunari (9:30~11:10)

2A2-04 ATP Special Invited Lecture NEDO's activities toward "Hydrogen Society" (NEDO) ○OHIRA, Eiji (09:30~10:10)

2A2-08 ATP Keynote Lecture Fuel Cell Vehicle (FCV) Development and Initial Market Creation (Toyota Motor Corp. R&D Management Division) ○KAWAI, Taiyo (10:10~11:00)

2A2-13 ATP Incubation Time (11:00~11:10)

Chair: WATANABE, Masahiro (11 : 10~12 : 20)

- 2A2-14 ATP Special Invited Lecture** Review of hydrogen refueling stations (Iwatani Corp.) ○KAJIWARA, Masataka (11:10~11:50)
- 2A2-18 ATP Invited Lecture** Hydrogen generator and Hydrogen Refueling Station technology (Mitsubishi Kakoki Kaisha, Ltd Business Development Division) ○YAMAZAKI, Akiyoshi (11:50~12:20)

Friday, March 27, PM

Chair: OHIRA, Akihiro (13 : 20~14 : 50)

- 2A2-27 ATP Keynote Lecture** High Performance and Durable Materials for the Next Generation Fuel Cells; from Research Results of NEDO "HiPer-FC Project" (Fuel Cell Nanomaterials Center, Univ. of Yamanashi) ○WATANABE, Masahiro (13:20~14:10)
- 2A2-32 ATP Invited Lecture** Research and development of carbon-based non-precious metal cathode catalysts (Tokyo Tech Graduate School of Science and Engineering) ○NABAE, Yuta (14:10~14:40)
- 2A2-35 ATP Incubation Time** (14:40~14:50)

Chair: MITSUSHIM, Shigenori (14 : 50~16 : 10)

- 2A2-36 ATP Special Invited Lecture** R&D for innovative perfluorinated electrolyte material (Asahi Kasei E-Materials Corp.) ○MIYAZAKI, Kuon (14:50~15:30)
- 2A2-40 ATP Invited Lecture** An approach for development of high-performance polymer electrolyte material (UBIQEN, AIST; Fuel Cell Cutting-Edge Research Center, Technology Research; Sophia Univ.) ○OHIRA, Akihiro; RIKUKAWA, Masahiro (15:30~16:00)
- 2A2-43 ATP Incubation Time** (16:00~16:10)

Chair: NABAE, Yuta (16 : 10~17 : 30)

- 2A2-44 ATP Special Invited Lecture** Electrolytic technologies toward CO₂ free hydrogen energy (Yokohama Natl. Univ. Inst. Adv. Sci. & Grad. Sch. Eng.) ○MITSUSHIM, Shigenori (16:10~16:50)
- 2A2-48 ATP Special Invited Lecture** Materials Science on Hydrides with High Density Hydrogen -Appearing of New Energy Functions by "Transition" and "Conduction" (WPI-AIMR, Tohoku Univ.) ○ORIMO, Shin-ichi (16:50~17:30)

Saturday, March 28, AM

Chemistry for highly efficient use of energy and sustainable environment

(9 : 20 ~ 9 : 30)

- 3A2-03** Introductory talk from the organizer (Grad. Sch. Eng., Kyoto Univ.) ○EGUCHI, Koichi (09:20~09:30)

Chair: MATSUO, Yutaka (9 : 30 ~ 12 : 00)

- 3A2-04 ATP Keynote Lecture** Innovative Process Design Principle for Green Chemistry: Energy Recuperation and Self-heat Recuperation (IIS, The Univ. of Tokyo) ○TSUTSUMI, Atsushi (09:30~10:20)
- 3A2-09 ATP Incubation Time** (10:20~10:30)
- 3A2-10 ATP Special Invited Lecture** Algal bioremediation and metal concentration (Grad. Sch. Life and Env. Sci., Univ. of Tsukuba) ○SHIRAIWA, Yoshihiro (10:30~11:10)
- 3A2-14 ATP Incubation Time** (11:10~11:20)
- 3A2-15 ATP Invited Lecture** Chemical Technology of Tire Materials for lower vehicle energy consumption (Bridgestone Corp. Materials Development Dept.) ○HOJYO, Masahiro; ZUIGYO, Yugo; MATSUO, Shigeaki; YONEMOTO, Makiko (11:20~11:50)
- 3A2-18 ATP Incubation Time** (11:50~12:00)

Saturday, March 28, PM

Chair: SEKO, Shinzo (13 : 10~15 : 00)

- 3A2-26 ATP Keynote Lecture** Membrane Technology applied for CO₂ separation and water treatment (Grad. Sch. Eng., Kobe Univ.) ○MATUYAMA, Hideto (13:10~14:00)
- 3A2-31 ATP Incubation Time** (14:00~14:10)
- 3A2-32 ATP Special Invited Lecture** Chemistry and technology for CO₂ capture in CCS (RITE Chemical Research Group) ○HIGASHI, Takayuki (14:10~14:50)
- 3A2-36 ATP Incubation Time** (14:50~15:00)

Chair: TSUCHIBUCHI, Tsuyoshi (15 : 10~16 : 50)

- 3A2-38 ATP Special Invited Lecture** Phosphorus removal and recovery technology using a high-efficiency phosphorus adsorbent (Asahi Kasei Corporation Energy & Environment R&D Center) ○MIDORIKAWA, Ichiro (15:10~15:50)
- 3A2-42 ATP Incubation Time** (15:50~16:00)
- 3A2-43 ATP Special Invited Lecture** The study for energy saving in a reverse osmosis membrane system (Nitto Denko Corp. Membrane Division) ○SINNANI, Takuji (16:00~16:40)
- 3A2-47 ATP Incubation Time** (16:40~16:50)

Room A3

Bldg.14 1433

Resource, Next Generation Energy and Environment

Friday, March 27, AM

Innovation and Perspective of Solar Energy Conversion Technologies

(9 : 20 ~ 9 : 30)

- 2A3-03** Organizers' introduction talk (Grad. Sch. Eng., Toin Univ. of Yokohama) ○MIYASAKA, Tsutomu; INOUE, Haruo (09:20~09:30)

Chair: ARAKAWA, Hironori (9 : 30 ~ 11 : 00)

- 2A3-04 ATP Keynote Lecture** Innovative Evolution of Organic Photovoltaics (RCAST, The Univ. of Tokyo) ○SEGAWA, Hiroshi (09:30~10:20)
- 2A3-09 ATP Special Invited Lecture** Completely Solid-State Dye-Sensitized Solar Cells for the Internet Society (Internet of Things: IoT) (Ricoh Company, Ltd.) ○TANAKA, Yuuji; KANEI, Naomichi; SUZUKI, Shigeo; HORIUCHI, Tamotsu (10:20~11:00)

Chair: SEGAWA, Hiroshi (11 : 00~12 : 10)

- 2A3-13 ATP Invited Lecture** Development of plastic film type dye-sensitized and hybrid solar cells and modules (Pecell Technologies, Inc.) ○IKEGAMI, Masashi (11:00~11:30)
- 2A3-16 ATP Special Invited Lecture** Efficiency improvement and future commercialization of dye-sensitized solar cells (Fac. Eng., Tokyo Univ. of Sci.) ○ARAKAWA, Hironori (11:30~12:10)

Friday, March 27, PM

Chair: YAMASHITA, Koichi (13 : 20~14 : 40)

- 2A3-27 ATP Keynote Lecture** Photocatalysts and artificial photosynthesis (Fac. Sci., Tokyo Univ. of Sci.) ○KUDO, Akihiko (13:20~14:10)
- 2A3-32 ATP Invited Lecture** Highly efficient CO₂ photoreduction utilizing semiconductor/metal-complex hybrid photocatalyst (Toyota Central R&D Labs., Inc.; ACT-C, JST) ○ARAI, Takeo; SATO, Shunsuke; UEMURA, Keiko; SUZUKI, Tomiko; MORIKAWA, Takeshi (14:10~14:40)

Chair: KINOSHITA, Takumi (14 : 40~16 : 30)

- 2A3-35 ATP Invited Lecture** Visible-light water splitting and CO₂ fixation over surface modified photocatalysts (Grad. Sch. Sci., Eng., Tokyo Tech) ○MAEDA, Kazuhiko (14:40~15:10)
- 2A3-40 ATP Invited Lecture** New materials for highly efficient organic photovoltaics (RIKEN CEMS) ○TAKIMIYA, Kazuo; OSAKA, Itaru (15:30~16:00)
- 2A3-43 ATP Invited Lecture** Control of charge transfer rate in dye-sensitized solar cells toward high efficiency (Fac. Textile Sci. Technol., Shinshu Univ.) ○MORI, Shogo (16:00~16:30)

Chair: MORI, Shogo (16 : 30~17 : 30)

- 2A3-46 ATP Invited Lecture** Computational chemistry on energy conversion processes of perovskite solar cells (Grad. Sch. Eng., The Univ. of Tokyo) ○YAMASHITA, Koichi (16:30~17:00)
- 2A3-49 ATP Invited Lecture** Development of wideband dye-sensitized solar cells and their applications (RCAST, The Univ. of Tokyo) ○KINOSHITA, Takumi (17:00~17:30)

Saturday, March 28, AM

Chair: MIYASAKA, Tsutomu (9 : 30 ~ 11 : 00)

- 3A3-04 ATP Keynote Lecture** Outlook of Solar PV Technologies: What is needed? (AIST (FREA)) ○KONDO, Michio (09:30~10:20)
- 3A3-09 ATP Special Invited Lecture** Perovskite solar cells sensitive to IR light (Grad. Sch. Life Sci. Sys. Eng., KIT) ○HAYASE, Shuji (10:20~11:00)

Chair: WAKAMIYA, Atsushi (11 : 00~12 : 10)

- 3A3-13 ATP Invited Lecture** Optical property and its application of organic-inorganic perovskite materials (Fac. Sci., Sophia Univ.) ○EMA, Kazuhiro (11:00~11:30)
- 3A3-16 ATP Special Invited Lecture** Photovoltaic functions and device design for organic inorganic perovskite semiconductor materials (Grad. Sch. Eng., Toin Univ. of Yokohama) ○MIYASAKA, Tsutomu (11:30~12:10)

Materials Div., NIMS) ○SHIGETOH, Akitsu (15:40~16:10)

Chair: SHIGETOH, Akitsu (16:10~17:10)

- 1A4-26 ATP Keynote Lecture** Importance and state-of-the-art of development of photocatalysts for CO₂ reduction (Grad. Sch. Sci., Eng., Tokyo Tech) ○ISHITANI, Osamu (13:10~14:00)
- 3A3-31 ATP Special Invited Lecture** Plasmon-induced artificial photosynthesis utilizing entire spectrum of visible light (RIES, Hokkaido Univ.) ○MISAWA, Hiroaki (14:00~14:40)
- 1A4-44 ATP Invited Lecture** Current Trends in Molecular Biomimetics (IMRAM, Tohoku Univ.) ○SAITO, Masao (16:10~16:40)
- 1A4-47 ATP Invited Lecture** Pollen Biomimetics: Preparation of Polymer Microparticles with Self-Organized Surface Structures (Fac. Phot. Sci., CIST) ○KARTHAUS, Olaf; POLZIN, Philipp; ACKER, Pascal; MIYAURA, Kazuki (16:40~17:10)

Friday, March 27, AM

Chair: HOZUMI, Atsushi (9:30~10:50)

- 2A4-04 ATP Keynote Lecture** Self-Assembly, Spatio-Temporal Function and Fluctonomous Emergence aiming at Origin of Life and Origin of Intelligence (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○HARA, Masahiko (09:30~10:20)
- 2A4-09 ATP Invited Lecture** Biomimetics from Deep-Sea Organisms (JAMSTEC R&D Center for Marine Biosciences) ○DEGUCHI, Shigeru (10:20~10:50)

Chair: DEGUCHI, Shigeru (10:50~12:00)

- 2A4-12 ATP Invited Lecture** Similarity of Gold Nanoparticle Assembly with Virus Structure (RIES, Hokkaido Univ.) ○NIKURA, Kenichi (10:50~11:20)
- 2A4-15 ATP Special Invited Lecture** Sponges as potential model for biomimetics (JAMSTEC Research and Development Center for Marine Biosciences) ○TSUBAKI, Remi (11:20~12:00)

Friday, March 27, PM

Chair: NIKURA, Kenichi (13:00~14:10)

- 2A4-25 ATP Special Invited Lecture** Electron Microscopy on Soft Materials (IMCE, Kyushu Univ.) ○JINNAI, Hiroshi (13:00~13:40)
- 2A4-29 ATP Invited Lecture** Application of self-organized micro wrinkles to flapping-wing membranes (Chiba Univ. SJTU-CU ICRC) ○TANAKA, Hiroto (13:40~14:10)

Chair: SHIMOMURA, Masatsugu (14:20~15:50)

- 2A4-33 ATP Invited Lecture** Public awareness of Biomimetics and Industry stakeholders' perspectives (NRI, AIST) ○AN, Soonhwa; SEKIYA, Mizuki; ATA, Masafumi (14:20~14:50)
- 2A4-36 ATP Invited Lecture** Biomimetic design comes one step closer to the market, a report from "ISO/TC 266 Biomimetics" (NRI, AIST) ○SEKIYA, Mizuki; ATA, Masafumi; AN, Soonhwa (14:50~15:20)
- 2A4-39 ATP Invited Lecture** Trends in domestic and foreign policy related to biomimetics (Fujitsu Research Institute Consulting Group 1) ○HASEGAWA, Makoto; TANAKA, Hiroki; OTSUKA, Hiroko; SASAKI, Kazuto (15:20~15:50)

Saturday, March 28, AM

Coating - Printed Electronics and New Materials

(9:40~9:50)

- 3A4-05** Trend of the printed electronics technologies (FLEC, AIST) ○KAMATA, Toshihide (09:40~09:50)

Chair: KAMATA, Toshihide (9:50~12:00)

- 3A4-06 ATP Special Invited Lecture** Printed Electronics, from hobby to IoT (The Univ. of Tokyo Graduate School of Information Science and Technology) ○KAWAHARA, Yoshihiro (09:50~10:30)
- 3A4-10 ATP Invited Lecture** Printed Electronics Applications and Materials (Du Pont) ○HAYAKAWA, Keiichiro; AOYAMA, Eiji (10:30~11:00)
- 3A4-13 ATP Invited Lecture** High-specification, high-resolution patterning in copper nanoparticle inks (FLEC, AIST) ○SHIRAKAWA, Naoki (11:00~11:30)
- 3A4-16 ATP Invited Lecture** Printing Inks for Printed Electronics Devices (DIC Corp.) ○KATAYAMA, Yoshinori (11:30~12:00)

Saturday, March 28, PM

Chair: IINO, Hiroaki (13:00~15:30)

- 3A4-25 ATP Invited Lecture** Carbon nanotubes for printed electronics (Meijo Nano Carbon) ○HASHIMOTO, Takeshi (13:00~13:30)
- 3A4-28 ATP Invited Lecture** High mobility printable organic semiconductors (MCRC) ○OHNO, Akira (13:30~14:00)
- 3A4-31 ATP Invited Lecture** All-Printed Oxide Thin Film Transistor Arrays for High Resolution Active Matrix (RICOH Company, Ltd. Research and Development Center) ○MATSUMOTO, Shinji (14:00~14:30)
- 3A4-34 ATP Invited Lecture** Development of the Air-Stable OLED for Printed Electronics (Nippon Shokubai Co., Ltd. Strategic Technology Research Center) ○MUNEHIRO, Hasegawa; MORII, Katsuyuki (14:30~15:00)

Saturday, March 28, PM

Chair: HAYASE, Shuzi (13:10~14:40)

- 3A3-26 ATP Keynote Lecture** Importance and state-of-the-art of development of photocatalysts for CO₂ reduction (Grad. Sch. Sci., Eng., Tokyo Tech) ○ISHITANI, Osamu (13:10~14:00)
- 3A3-31 ATP Special Invited Lecture** Plasmon-induced artificial photosynthesis utilizing entire spectrum of visible light (RIES, Hokkaido Univ.) ○MISAWA, Hiroaki (14:00~14:40)

Chair: HAN, Liyuan (14:40~16:20)

- 3A3-35 ATP Special Invited Lecture** Light-harvesting Molecular photocatalysis (Toyota Central R&D Labs., Inc.) ○INAGAKI, Shinji (14:40~15:20)
- 3A3-41 ATP Special Invited Lecture** Hybrid Perovskite Solar Cells with Inorganic Materials (Grad. Sch. Eng., Univ. of Hyogo) ○ITO, Seigo (15:40~16:20)

Chair: ITO, Seigo (16:20~17:30)

- 3A3-45 ATP Invited Lecture** Perovskite-Based Solar Cells: Improvement of Power Conversion Efficiency by Surface Treatment (ICR, Kyoto Univ.) ○WAKAMIYA, Atsushi (16:20~16:50)
- 3A3-48 ATP Special Invited Lecture** Film Morphology Control for High Efficiency Perovskite Solar Cells (Environment and Energy Materials Div., NIMS) ○HAN, Liyuan (16:50~17:30)

Room A4

Bldg.14 1434

Topical Technology - New Materials Holding the Key to the Practical Use

Thursday, March 26, AM

Imitation - Biomimetics and New Materials

(9:30~9:40)

- 1A4-04** introductory (Fac. Phot. Sci., CIST) ○SHIMOMURA, Masatsugu (09:30~09:40)

Chair: SHIMOMURA, Masatsugu (9:40~10:40)

- 1A4-05 ATP Invited Lecture** Preparation of antifouling surface achieved by hydrophilic surface mimicry of marine animals (Fac. Eng., Kogakuin Univ.) ○KOBAYASHI, Motoyasu (09:40~10:10)
- 1A4-08 ATP Invited Lecture** Fabrication of hierarchical shark skin structures and their tribological properties (Fac. Phot. Sci., CIST) ○HIRAI, Yuji; SATO, Aki; SHIMOMURA, Masatsugu; KOIKE, Satoshi; KUROKAWA, Takayuki; SUZUKI, Kosuke; OHZONO, Takuya (10:10~10:40)

Chair: KOBAYASHI, Motoyasu (10:40~11:50)

- 1A4-11 ATP Invited Lecture** Fabrication of High Speed Water Transport Channels Mimicked by Microstructures of Ligia Exotica (Ctr. For Fostering Young and Innovative Researchers, Nagoya Inst. of Tech.) ○ISHII, Daisuke (10:40~11:10)
- 1A4-14 ATP Special Invited Lecture** Museum specimens and Biomimetics (Hokkaido Univ. The Hokkaido University Museum) ○OHARA, Masahiro (11:10~11:50)

Thursday, March 26, PM

Chair: HIRAI, Yuji (13:00~14:50)

- 1A4-25 ATP Keynote Lecture** Ontology-Enhanced Thesaurus: A new method for drastically improving accessibility to biological data (JAIST Research Center for Service Science) ○MIZOGUCHI, Riichiro (13:00~13:50)
- 1A4-30 ATP Invited Lecture** Biomimetic structural color of jewel beetle by silicone elastomer mold (Advanced Key Technologies Div., NIMS) ○FUDOUI, Hiroshi (13:50~14:20)
- 1A4-33 ATP Invited Lecture** Functional Surfaces/Materials Inspired By Biological Self-repairing/Secretion Systems (MRISD, AIST) ○HOZUMI, Atsushi; URATA, Chihiro; DUNDERDALE, Gary; ENGLAND, Mathew (14:20~14:50)

Chair: FUDOUI, Hiroshi (15:00~16:10)

- 1A4-37 ATP Special Invited Lecture** Fabrication of surface enhanced Raman scattering substrates inspired by biological dynamic structural color (RIES, Hokkaido Univ.) ○IJIRO, Kuniharu (15:00~15:40)
- 1A4-41 ATP Invited Lecture** VUV/vapor-assisted surface modification technology for inorganic/organic hybrid bonding (Environment and Energy

3A4-37 ATP Incubation Time (15:00~15:30)

Chair: KAMATA, Toshihide (15:30~17:00)

3A4-40 ATP Invited Lecture Application of printing technology to the touch panel. (Touch Panel Laboratories Co. Ltd) ○NAKATANI, Kenji (15:30~16:00)

3A4-43 ATP Invited Lecture Fine wire manufacturing for touch sensor with gravure offset printing (KOMORI Corporation) ○SAKATA, Ohra (16:00~16:30)

3A4-46 ATP Invited Lecture Advanced Screen Printing Process with RtoR technology (MINO GROUP Co., Ltd.) ○NAGASE, Kazuro (16:30~17:00)

Room A5
Bldg.14 1441

Challenge for the emerging issues with new biotechnologies

Thursday, March 26, PM

Global Technology and Business Innovation by Japan-origin Bio-ventures
(13:00~13:10)

1A5-25 Introduction by the organizers (Grad. Sch. Sci., The Univ. of Tokyo) ○SUGA, Hiroaki (13:00~13:10)

Chair: UEJIMA, Yasuhide (13:10~14:00)

1A5-26 ATP Keynote Lecture "Value Optimization of Japan-origin New Drugs in Global Market: Issues & Solutions" (Gifu Pharm. Univ.) ○NAGAE, Toshio (13:10~14:00)

Chair: SUGA, Hiroaki (14:00~16:20)

1A5-31 ATP Invited Lecture Quantum Sequencing: Disruptive innovation in DNA sequencing technologies (Quantum Biosystems) ○HONKURA, Toshihiko (14:00~14:30)

1A5-34 ATP Incubation Time (14:30~14:40)

1A5-35 ATP Invited Lecture Innovation of medical science using rapid antibody platform using ADLib(R) system. (Chiome Bioscience Inc.) ○MURAKAMI, Koji (14:40~15:10)

1A5-38 ATP Invited Lecture Developing of diagnostic method for major depression disease (Human Metabolome Technologies) ○KANNO, Ryuji (15:10~15:40)

1A5-41 ATP Incubation Time (15:40~15:50)

1A5-42 ATP Invited Lecture Healios's groundbreaking iPS cell-related technologies (HEALIOS K.K.) ○KAGIMOTO, Tadahisa (15:50~16:20)

Chair: UEJIMA, Yasuhide (16:20~17:20)

1A5-45 ATP Special Invited Lecture INCJ's Approaches to Stimulate Commercialization of Japanese Biotechnology (INCJ Value Creation Investment) ○ASHIDA, Koichi (16:20~17:00)

1A5-49 ATP Incubation Time (17:00~17:20)

Friday, March 27, PM

Innovation of Next-generation Biosensing Technologies

(13:00~13:10)

2A5-25 Innovation of next-generation biosensing technologies (Fac. Sci. Tech., Keio Univ.) ○MIYAMOTO, Kenji (13:00~13:10)

Chair: MIYAMOTO, Kenji (13:10~14:30)

2A5-26 ATP Special Invited Lecture Taste Sensor for the Food Science and to Connect the World (Intelligent Sensor Technology) ○IKEZAKI, Hidekazu (13:10~13:50)

2A5-30 ATP Special Invited Lecture Principle and Applications of electronic nose "FF-2020S system" for analyzing complex odor <<<<including measurement of bio-medical materials>>>> (Shimadzu Corp. Analytical instrument div.) ○KITA, Jun-ichi (13:50~14:30)

Chair: TSURUTA, Hitoshi (14:30~16:00)

2A5-34 ATP Special Invited Lecture Implantable medical device technologies for next-generation diagnostics (Panasonic Corp. Advanced Research Division) ○OKUMURA, Yasuaki; SHIOI, Masahiko; LAGAE, Liesbet; KAWAMURA, Tatsuro; YOSHIOKA, Toshihiko (14:30~15:10)

2A5-38 ATP Incubation Time (15:10~15:20)

2A5-39 ATP Special Invited Lecture Development of Micro-Planar Amperometric Biosensor for Food Component Measurement (TANITA CORP. R&D Department) ○KOIDE, Satoshi; KINOSHITA, Yuri; IKEDA, Satoshi; ITO, Narushi; FUJISHIMA, Yoshiyuki; MIZUKOSHI, Toshimi (15:20~16:00)

Chair: SUGIYAMA, Masakazu (16:00~17:20)

2A5-43 ATP Special Invited Lecture High Performance DNA microarray 3D-Gene and the analysis of serum miRNA profile. (Toray Industries, Inc. New Projects Development Division) ○KONDO, Satoshi; NOBUMASA, Hitoshi (16:00~16:40)

2A5-47 ATP Special Invited Lecture Why dose plasma free amino acid profiling know various disease risks? (Ajinomoto Co., Inc.) ○ANDO, Toshihiko (16:40~17:20)

Saturday, March 28, PM

Let's Change the World with Japan-origin Biotechnologies

(13:00~13:10)

3A5-25 Introduction of the session (Chiba Univ.) ○GOTO, Eiji (13:00~13:10)

Chair: GOTO, Eiji (13:10~14:00)

3A5-26 ATP Keynote Lecture Overview of technical developments in plant factory (Coll. of Agri., Tamagawa Univ.) ○WATANABE, Hiroyuki (13:10~14:00)

Chair: AOI, Keigo (14:00~15:30)

3A5-31 ATP Special Invited Lecture Medicinal plant production for 'Kampo' material under controlled environment (Chiba Univ.) ○HIKOSAKA, Shoko (14:00~14:40)

3A5-35 ATP Special Invited Lecture Pharmaceutical materials production using plants in a plant factory (Chiba Univ. Graduate School of Horticulture) ○GOTO, Eiji (14:40~15:20)

3A5-39 ATP Incubation Time (15:20~15:30)

Chair: NISHIKAWA, Naoyuki (15:30~17:10)

3A5-40 ATP Invited Lecture Plant factory - LED lighting and cultivation system (Showa Denko K.K.) ○TAKEUCHI, Ryouichi (15:30~16:00)

3A5-43 ATP Invited Lecture Production of Quality Produces by using Advanced Membrane Technology (Imec) (Mebiol Inc.) ○MORI, Yuichi (16:00~16:30)

3A5-46 ATP Special Invited Lecture Characteristics and problem of plant factory business (JRI) ○MIWA, Yasufumi (16:30~17:10)

Room A6
Bldg.14 1442

Materials Chemistry

Thursday, March 26, AM

Inorganic Materials and Low Dimensional Materials

Chair: YONEZAWA, Tetsu (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(1A6-01, 1A6-02, 1A6-03, 1A6-04, 1A6-05, 1A6-06)

1A6-01 Preparation and characterization of Eu₂O₃-doped pollucite phosphors by wet blending (Dept. Mat. Sci. Eng., Nat. Def. Acad.) ○HAMADA, Sho; KISHIMURA, Hiroaki; WATANABE, Kannta; ARUGA, Atsushi; MATSUMOTO, Hitoshi

1A6-02 Syntheses of high yield silver nanowires with polyol process and the preparation of disperse ink in polar and non-polar solvents (Sch. Eng., The Univ. of Shiga Pref.) ○NAITO, Takuya; CUYA, Jhon; MIYAMURA, Hiroshi; BALACHANDRAN, Jeyadevan

1A6-03 Synthesis and characterization of rare earth complex oxide up-conversion phosphors by aqueous solution process (Sch. Sci., Tokai Univ.) ○OGAWA, Satoshi; TAMURA, Sayaka; TOMITA, Koji; KATAGIRI, Kiyofumi; KAKIHANA, Masato

1A6-04 Magnetic properties of FePt/Fe nanoheterostructures synthesized from self-assembled block copolymer composites (Toyota Central R&D Labs., Inc.) ○YONEKURA, Hirokazu; WAKAYAMA, Hiroaki

1A6-05 Indirect electrodeposition of titanium dioxide films from aqueous solution of titanium-lactic acid complex. (Osaka Municipal Technical Research Institute) ○CHIGANE, Masaya; SHINAGAWA, Tsutomu

1A6-06 Preparation of Titanium Oxide Nano-particles containing liquid crystalline phthalocyanine (UBIQEN, AIST; Sch. Env. Sci. Eng., KUT) ○SHIMIZU, Yo; KAWANO, Kouki; HIGUCHI, Yumi; TAKAHASHI, Minokazu; OHTANI, Masataka; KOBIRO, Kazuya

Low Dimensional Materials

Chair: YANAGISHITA, Takashi (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(1A6-08, 1A6-09, 1A6-10, 1A6-12)

- 1A6-08** Asymmetric Scattering and Reflection Behaviors of Silver Nanoparticles Deposited on a TiO₂ Thin Film (IIS, The Univ. of Tokyo) ○OKUMURA, Arisa; SAITO, Koichiro; TATSUMA, Tetsu
- 1A6-09** Preparation of titania thin film on metal titanium substrate (Fac. Eng., Shinshu Univ.) ○NISHIKIORI, Hiromasa; KAWAMOTO, Kazuki; HIZUMI, Taisuke
- 1A6-10*** Atomic precise doping using a dendrimer template: case of Eu-doped TiO₂ (Environment and Energy Materials Div., NIMS; Chem. Res. Lab., Tokyo Tech) ○SAITOH, Norifusa; NAKASHIMA, Toshio; YAMAMOTO, Kimihisa
- 1A6-12*** Oxygen defect formation of TiO₂ nanoparticles using a plasma in liquid system (Grad. Fac. Eng., Hokkaido Univ.) ○YONEZAWA, Tetsu; MOTOKANE, Yasutomo; TOKUNAGA, Tomoharu; ISHIDA, Yohei
- Chair: TATSUMA, Tetsu (11 : 20~12 : 20)
- * 11:10-11:20: interval for laptop PC connection.(1A6-15, 1A6-16, 1A6-17, 1A6-19)
- 1A6-15** Preparation of composite nanofibers using anodic porous alumina (Urban Environmental Sci., Tokyo Metropolitan Univ.; Mitsubishi Rayon) ○TAKAI, Hideaki; YANAGISHITA, Takashi; UOZU, Yoshihiro; MASUDA, Hideki
- 1A6-16** Fluorescent silver nanoparticles synthesized by matrix sputtering method (Grad. Sch. Eng., Hokkaido Univ.) ○NAKABAYASHI, Ryota; ISHIDA, Yohei; YONEZAWA, Tetsu
- 1A6-17*** Electrocatalytic activity of Metal Nanoparticle Monolayer Film Prepared by Ionic Liquid-Metal Sputtering Technique (Grad. Sch. Eng., Nagoya Univ.) ○SUGIOKA, Daisuke; KAMEYAMA, Tatsuya; KUWABATA, Susumu; TORIMOTO, Tsukasa
- 1A6-19*** Synthesis and Characterization of Sustainable Nanostructured Chalcopyrite Thermoelectric Material (Sch. Mat. Sci., JAIST) ○SINGH, Maninder; AHUJA, Dipali; NISHINO, Shunsuke; MASANOBU, Miyata; MOTT, Derrick; KOYANO, Mikio; MAENOSONO, Shinya

Thursday, March 26, PM

- Chair: YAMAMOTO, Kimihisa (13 : 30~14 : 30)
- * 13:20-13:30: interval for laptop PC connection.(1A6-28, 1A6-29, 1A6-30, 1A6-31, 1A6-32)
- 1A6-28** Preparation of gold nanoparticle with a azabismocine skeleton (Tokyo Nat. Coll. of Tech.) ○ONO, Takeya; SHIMADA, Shigeru; MACHIDA, Shigeru
- 1A6-29** Synthesis and Photofunctionalities of Plasmonic Copper Sulfide Nanoparticles (IIS, The Univ. of Tokyo) ○ASAMI, Keisuke; NISHI, Hiroyasu; TATSUMA, Tetsu
- 1A6-30** Near-Infrared Light Emission from Size-Controlled AgInTe₂ Quantum Dots (Grad. Sch. Eng., Nagoya Univ.) ○ISHIGAMI, Yuujirou; KAMEYAMA, Tatsuya; TORIMOTO, Tsukasa
- 1A6-31** Fabrication of Photonic Crystal / Metal-Organic Framework Composite Thin Films (FIRST, Konan Univ.) ○MATSUYAMA, Tetsuhiro; KUMANO, Misato; SHIBAMORI, Takuya; TSURUOKA, Takaaki; TAKASHIMA, Yohei; AKAMATSU, Kensuke
- 1A6-32*** Selective Growth of Metal-Organic Frameworks on Metal Ion-Doped Polymer Films (FIRST, Konan Univ.) ○TSURUOKA, Takaaki; KUMANO, Misato; KOJI, Mantani; TAKASHIMA, Yohei; AKAMATSU, Kensuke
- Chair: TSURUOKA, Takaaki (14 : 40~15 : 40)
- * 14:30-14:40: interval for laptop PC connection.(1A6-35, 1A6-36, 1A6-37, 1A6-39, 1A6-40)
- 1A6-35** Effects of metal loading and magnetic field strength on alignment of noncrystalline block copolymers doped with metal complexes (Toyota Central R&D Labs., Inc.) ○WAKAYAMA, Hiroaki; YONEKURA, Hirotaka; HARADA, Masashi
- 1A6-36** Synthesis of V₂O₅ nanoparticle by using Phenylazomethine Dendrimer as a template (Chem. Res. Lab., Tokyo Tech) ○GOSEKI, Takahiro; ALBRECHT, Ken; NARUKE, Haruo; YAMAMOTO, Kimihisa
- 1A6-37*** Construction of Conductive Polymer Nanosheets Towards Flexible Skin-Contact Electrodes (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○FUJIE, Toshinori; YAMAGISHI, Kento; OKAMOTO, Marin; TAKEOKA, Shinji
- 1A6-39** Crystal Growth Analysis of Graphene Etching Reaction (Fac. Eng., Yamagata Univ.) ○WATANABE, Yuto; SANO, Masahito
- 1A6-40** Exfoliation of graphite intercalation compound by electrochemical process (Fac. Eng., Yamagata Univ.) ○TANNO, Yasunaga; OKIMOTO, Haruya; SANO, Masahito

Low Dimensional Materials and Carbon Materials

- Chair: SANO, Masahito (15 : 50~16 : 50)
- * 15:40-15:50: interval for laptop PC connection.(1A6-42, 1A6-43, 1A6-44, 1A6-46)
- 1A6-42** Purity analysis and purification of double-walled carbon nanotubes (Toray Industries, Inc.) ○NISHINO, Hidekazu; SATO, Kenichi; HONDA, Shirou
- 1A6-43** Evaluation of pore structure of pillared carbons by intercalation of

- alkylamines (Grad. Sch. Eng., Univ. of Hyogo) ○FUKUDA, Takuya; MATSUO, Yoshai
- 1A6-44**** Mass exfoliation of graphite into "single-layer" graphene (Grad. Sch. Eng., The Univ. of Tokyo) ○MATSUMOTO, Michio; SAITO, Yusuke; AIDA, Takuzo
- 1A6-46*** Facile sorting of semiconducting single-walled carbon nanotubes based on reversible formation of hydrogen-bond polymers (Grad. Sch. Eng., Kyushu Univ.) ○TOSHIMITSU, Fumiyuki; NAKASHIMA, Naotoshi

Low Dimensional Materials and Carbon Materials

- Chair: NAKASHIMA, Naotoshi (17 : 00~18 : 10)
- * 16:50-17:00: interval for laptop PC connection.(1A6-49, 1A6-50, 1A6-52, 1A6-53, 1A6-54, 1A6-55)
- 1A6-49** Electrode Properties of Activated Carbon Absorbing Metal Complexes (Nihon Univ. College of Bioresource Sciences) ○EGASHIRA, Minato
- 1A6-50*** Structure-controlled synthesis of bottom-up graphene nanoribbons by radical polymerization-chemical vapor deposition (IAE, Kyoto Univ.) ○NAKAE, Takahiro; IRUKA, Taku; FUJITA, Shoichiro; SONG, Shaotang; SAKAGUCHI, Hiroshi
- 1A6-52** Photochemical Modification of Carbon Films with Fluorine Functionalities (AIST AMRI) ○NAKAMURA, Takako; TSUCHIYA, Tetsuo; OHANA, Tsuguyori
- 1A6-53** Nano Wrapping on Graphene Oxide by Metal-organic Network Composed of Tannic Acid and Fe Ion (Fac. Sci. Eng., Chuo Univ.) ○OZAWA, Hiroaki; HAGA, Masa-aki
- 1A6-54** Preparation and property of carbon nanotube attached Pt clusters from Pt₄ complex - polypyrrole - carbon nanotube composites (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) ○MIYAMOTO, Shota; KIM, Chang Kyu; MURATSUGU, Satoshi; TADA, Mizuki
- 1A6-55** NMR analysis of sodium in carbon heat-treated at high temperature (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Kyoto Univ. ESICB; Fac. Sci., Tokyo Univ. of Sci.; Tsukuba Magnet Lab., NIMS) ○MORITA, Ryohei; GOTOH, Kazuma; KUBOTA, Kei; HUKUNISHI, Mika; KOMABA, Shintchi; DEGUCHI, Kenzo; OOKI, Shinobu; SHIMIZU, Tadashi; ISHIDA, Hiroyuki

Friday, March 27, AM

Low Dimensional Materials and Carbon Materials

- Chair: OYAIZU, Kenichi (9 : 00~10 : 00)
- * 8:50-9:00: interval for laptop PC connection.(2A6-01, 2A6-03, 2A6-04, 2A6-05, 2A6-06)
- 2A6-01*** Pore size tuning of porous carbon material by using porous coordination polymer as precursor (Lion corporation R&D functional materials science research laboratories) ○FUJIWARA, Yu-ichi; HORIKE, Satoshi; KANOKWAN, Kongpatpanich; SUGIYAMA, Takashi; TOBORI, Norio; KITAGAWA, Susumu
- 2A6-03** Development of an Organic Dye Nanoparticle Preparative Method through Ultrasonic Spray Atomization (Nagaoka Univ. of Tech.) ○WAKAI, Ryota; TAKAHASHI, Yukiko
- 2A6-04** Dye-sensitized solar cells consisting of thin-layered nanocrystalline TiO₂ with hierarchical structure and Pt nanoparticles synthesized by a polyol process (Grad. Sch. Sci., Josai Univ.; Fac. Sci., Josai Univ.) ○MITSUKE, Koichiro; SAITO, Akane; ASANO, Nami; TANAKA, Nobuhide; AKITA, Motoko
- 2A6-05** Inkjet Printing of Metal Lines on Polymer Nanosheets (Sch. Advanced Sci. Eng., Waseda Univ.) ○OKAMOTO, Marin; KUROTOBI, Mizuho; YAMAGISHI, Kento; MURATA, Atsushi; FUJIE, Toshinori; IWASE, Eiji; IWATA, Hiroyasu; TAKEOKA, Shinji
- 2A6-06** Pore size control of monodisperse colloidal mesoporous silica particles and fabrication of colloidal crystals. (Sch. Advanced Sci. Eng., Waseda Univ.) YAMAMOTO, Eisuke; ○MORI, Seiya; UJIE, Hiroto; YAMADA, Hironori; SHIMOJIMA, Atsushi; KURODA, Kazuyuki

Organic Materials

- Chair: TSUGE, Akihiko (10 : 10~11 : 10)
- * 10:00-10:10: interval for laptop PC connection.(2A6-08, 2A6-09, 2A6-13)
- 2A6-08** Phase-segregated Nanostructure in Thin Film of Amphiphilic Diblock Copolymers Having Liquid Crystalline Organic Semiconductor Mesogens in Side Chain (KIT) ○TSUJIMURA, Saki; OOTONARI, Mesatoshi; TANAKA, Tomoe; ASAOKA, Sadayuki
- 2A6-09** CSJ Award for Technical Development Negative-Tone-Imaging(NTI)Process for the Manufacture of Semiconductor Devices (FUJIFILM Corporation Electronic Materials Research Laboratories) ○GOTO, Takahiro; NISHIYAMA, Fumiyuki; KANNA, Shin-ichi; TSUBAKI, Hideaki; SHIRAKAWA, Michihiro
- 2A6-13** Bis(methoxyphenyl)nitroxide and its Hole-Transporting Property (Sch. Advanced Sci. Eng., Waseda Univ.) ○WATANABE, Shinichi; TAKAMURA, Masaki; MARUO, Hirofumi; OYAIZU, Kenichi; NISHIDE, Hiroyuki

Chair: UCHIDA, Sayaka (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2A6-15, 2A6-16, 2A6-17, 2A6-18, 2A6-19, 2A6-20)
- 2A6-15** Doping of Spiro-OMeTAD with TEMPO cation and its Hole-Transporting property (Sch. Advanced Sci. Eng., Waseda Univ.) FUKUSHIMA, Naoyuki; TAKAMURA, Masaki; OMARUO, Hirofumi; OYAZU, Kenichi; NISHIDE, Hiroyuki
- 2A6-16** Synthesis of cyanoethylene-based n-type organic semiconductors and evaluation of their stability. (Grad. Sch. Eng., KIT) OKITO, Naoya; MORIGUCHI, Tetsuji; TSUGE, Akihiko
- 2A6-17** Preparation of Thermally-resistant Organic Crystals with a Golden Luster (Fac. Eng., Tokyo Univ. of Sci.) OIMAZU, Yuki; TAKAHASHI, Yutaka; KONDO, Yukishige
- 2A6-18** Synthesis and Phase Transition Behavior of Chiral Paramagnetic Liquid Crystalline Materials (Grad. Sch. Eng. Sci., Osaka Univ.) OKITA, Takuya; UCHIDA, Yoshiaki; NISHIYAMA, Norikazu
- 2A6-19** Improvement of Physical Properties of Columnar Ferroelectric Liquid Crystals with Molecular Design Approach of Side Chains (Fac. Sci. Technol., Tokyo Univ. of Sci.) OOMATA, Yuki; MIYAJIMA, Daigo; ARAOKA, Fumito; AIDA, Takuzo
- 2A6-20** Effects of Washing on Surface Properties of Silk Cloth No. 3 (Bunka Gakuen Univ. Textile Lab.) OYUMOTO, Lei; ATTAWIRIYASAKUL, Patra; YONEYAMA, Yuji

Friday, March 27, PM

Chair: FUJIGAYA, Tsuyohiko (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2A6-28, 2A6-30, 2A6-32)
- 2A6-28**** A Triangular Topology of Covalent Organic Frameworks (IMS Materials Molecular Science) ODALAPATI, Sasanka; JIANG, Donglin
- 2A6-30**** Wood-inspired film with a micro-structured surface (Grad. Sch. Eng., Tottori Univ.) OIZAWA, Hironori; OKUDA, Noriko; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki
- 2A6-32**** Development of A Novel Photoresponsive Film Actuator with Carbon Nitride Polymers (RIKEN CEMS) OMIYAJIMA, Daigo; ARAZOE, Hiroki; AIDA, Takuzo

Chair: KOKADO, Kenta (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(2A6-49, 2A6-51, 2A6-53)
- 2A6-49**** Light Harvesting with π -Electronic Covalent Organic Frameworks (Sch. Physical Sci., SOKENDAI; IMS) OWU, Yang; JIANG, Donglin
- 2A6-51**** Band-Gap Engineering of Conjugated Covalent Organic Frameworks (IMS) OHUANG, Ning; JIANG, Donglin
- 2A6-53**** Porous Organic Polymer Films for High-Performance Optoelectronics (IMS Molecular Function) OGU, Cheng; JIANG, Donglin

Saturday, March 28, AM

Organic Materials

Chair: ASAOKA, Sadayuki (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3A6-01, 3A6-02, 3A6-03, 3A6-04, 3A6-05, 3A6-06)
- 3A6-01** Interconvertible Multiple Photoluminescence of Biaryl Gold(I) Isocyanide Complex Induced by Solvent Addition and Mechanical Stimulation. (Grad. Sch. Chi. Sci. and Eng., Hokkaido Univ.) OJIN, Mingoo; SEKI, Tomohiro; ITO, Hajime
- 3A6-02** Optical Properties and Crystal Structures of Anthracene-Functionalized Gold(I) Isocyanide Complexes Exhibiting Infrared Luminescence (Sch. Eng., Hokkaido Univ.) OTOKODAI, Noriaki; SEKI, Tomohiro; OMAGARI, Shun; NAKANISHI, Takayuki; HASEGAWA, Yasuchika; ITO, Hajime
- 3A6-03** Synthesis of Novel Silole-Carbohydrate Turn-on Fluorescent Sensor for Lectin Detection (Grad. Sch. Sci., Eng., Saitama Univ.) OFURUKAWA, Takeshi; MURAMATSU, Yosuke; MATSUMURA, Shun; KOYAMA, Tetsuo; MATSUOKA, Koji; HATANNO, Ken
- 3A6-04** Polymerization Reaction in Ultrasonic Nebulized Mist and an Electrostatic Atomization Behavior of the Polymer Mist (Grad. Sch. Sci., Osaka Pref. Univ.) OSHIMOGAKI, Tomohiko; SATO, Masaaki
- 3A6-05** Enhancement in Hydrophilicity of Copper Surface with Poly(2-methyl-2-oxazoline) Having a Triazinethiol Moiety on Polymer End (NIT Hachinohe, D of Chem. & Bio. Eng.; Grad. Sch. Eng., Iwate Univ.; #Organization for Research Promotion, Iwate Univ.) OSATOH, Kumiko; AISAWA, Sumio; SANG, Jing; HIRAHARA, Hidetoshi; OGAWA, Kaoru
- 3A6-06** Morphology and Orientation Control of Organic Crystals by Biomimetic Process (Fac. Sci. Tech., Keio Univ.) OKANIWA, Mamoru; OAKI, Yuya; IMAI, Hiroaki

Organic Materials and Composite Materials

Chair: SEKI, Tomohiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3A6-08, 3A6-09, 3A6-11, 3A6-12, 3A6-13)
- 3A6-08** Fabrication of three-dimensional network structure composed of arenetetra-carboxylic bisbenzimidazole units (KIT) TAKEUCHI, Azusa;

MORI, Akihiro; HIGASHIURA, Hiroki; ASAOKA, Sadayuki

- 3A6-09**** Graphene Oxide-Li⁺@C₆₀ Donor-Acceptor Composite for Photo-energy Conversion (Grad. Sch. Eng., Osaka Univ.; ALCA, JST) OSUPUR, Mustafa; KAWASHIMA, Yuki; OHKUBO, Kei; HASOBE, Taku; FUKUZUMI, Shunichi
- 3A6-11** Synthesis of amphiphilic molecules based on incompletely condensed polyhedral oligomeric silsesquioxanes (KIT) ONAKAO, Yuka; IMOTO, Hiroaki; NAKA, Kensuke; FUJII, Syuji; NAKAMURA, Yoshinobu
- 3A6-12** Synthesis and properties of polysilsesquioxane having arylphosphonic acid as a side-chain (Fac. Sci. Technol., Tokyo Univ. of Sci.) OFUJII, Shintaro; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro
- 3A6-13** Synthesis of cage octasilicate polymer (Fac. Sci. Technol., Tokyo Univ. of Sci.) OIGARASHI, Takahiro; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro

Composite Materials

Chair: NAKA, Kensuke (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3A6-15, 3A6-16, 3A6-17, 3A6-18, 3A6-19, 3A6-20)
- 3A6-15** Synthesis of oligosiloxanes and derivatives (Fac. Sci. Technol., Tokyo Univ. of Sci.) OABE, Iori; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro
- 3A6-16** Synthesis of cage-type siloxanes possessing two different types of functional groups and their reactivities (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) OSAITO, Shohei; YAMASUE, Nao; WADA, Hiroaki; KURODA, Kazuyuki; SHIMOJIMA, Atsushi
- 3A6-17** Preparation of a single structured cyclic tetrasiloxane and formation of its two-dimensional layered aggregate (Grad. Sch. Sci., Eng., Kagoshima Univ.) OKANEKO, Yoshiro; KINOSHITA, Shota; WATASE, Seiji; MATSUKAWA, Kimihiro
- 3A6-18** Preparation of ionic liquid containing cyclic siloxane structure (Grad. Sch. Sci., Eng., Kagoshima Univ.) OKUBO, Takuya; KANEKO, Yoshiro
- 3A6-19** Functional group transformation and chemical modification of Graphene Oxide (RCIS, Okayama Univ.) OKADA, Yuki; NISHINA, Yuta
- 3A6-20** Preparation of graphene oxide/silicone composites and application to thermal conductive sheets (RCIS, Okayama Univ.) OTAKAHASHI, Hidefumi; DOUURA, Tsuyoshi; HAYASHI, Yasuhiko; NISHINA, Yuta

Saturday, March 28, PM

Chair: KANEKO, Yoshiro (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3A6-28, 3A6-29, 3A6-30, 3A6-31, 3A6-32)
- 3A6-28** Organic-Inorganic Polymer Hybrids from Polyamide Having a Triphenylimidazole Moiety and Alkoxysilane (Grad. Sch. Eng., Tokyo City Univ.) OTAKASAKI, Masato; IWAMURA, Takeru
- 3A6-29** Prediction of tensile strength of unidirectional CFRP composites (Toray Industries, Inc.) OWATANABE, Jun; OKUDA, Haruki; TANAKA, Fumihiko; OKABE, Tomonaga
- 3A6-30** The crystalline structure and electrochemical properties of eosin Y-adsorbing ZnO particles prepared by chemical deposition (Nagano Pref. General Ind. Tech. Ctr. Pre; Grad. Sch. Sci. Technol., Shinshu Univ.) ONAGAYA, Satoshi; NISHIKIORI, Hiromasa
- 3A6-31** One-pot synthesis and characterization of layered Silicon/carbon nanocomposite (Toyota Central R&D Labs., Inc.) OHASHI, Masataka; NAKANO, Hideyuki
- 3A6-32*** Composite Structure by Metal-polyiodide, I₃⁻, within Hydrophilic Polymer [VII]; Application for Metal Plating on Resins. (KURRI) OKAWAGUCHI, Akio

Chair: FUJIKAWA, Shigenori (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3A6-35, 3A6-36, 3A6-38, 3A6-40)
- 3A6-35*** Tailored hierarchical architectures using POSS-crystallization kinetics driven self-assembly of nanoparticles (IMRAM, Tohoku Univ.) OCAI, Jinguang; WATANABE, Akira
- 3A6-36*** Controlled Release of Guest Molecules from Metal-Organic Framework tethering Stimuli-Responsive Polymer on the Surface (Grad. Sch. Chi. Sci. and Eng., Hokkaido Univ.) ONAGATA, Shunjiro; KOKADO, Kenta; SADA, Kazuki
- 3A6-38*** Preparation of Carbon Nanotube/Cross-Linked Polymer Hybrids for Biomedical Applications and their Functionalization (Grad. Sch. Eng., Kyushu Univ.) OTSUTSUMI, Yusuke; TSUYOHICO, Fujigaya; NAKASHIMA, Naotoshi
- 3A6-40** Development of Carbon Nitride Thin Film and Its Application (Fac. Sci. Technol., Tokyo Univ. of Sci.) OSAKAMOTO, Shigeru; ARAZOE, Hiroki; MIYAJIMA, Daigo; AIDA, Takuzo

Ionic Liquid, Deep Eutectic Solvent and Composite Materials

Chair: WATANABE, Masayoshi (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3A6-42, 3A6-43, 3A6-44, 3A6-45, 3A6-46, 3A6-47)

- 3A6-42** Synthesis of reduced graphene oxide/ iron oxide composites by strobe light irradiation and their application for lithium-ion battery (RCIS, Okayama Univ.) ○TSUJI, Hiromi; NISHINA, Yuta
- 3A6-43** Synthesis of manganese/graphene oxide composite using residual manganese from graphene oxide synthesis and application for catalytic bromination reactions (RCIS, Okayama Univ.) ○SUZUKI, Hideyuki; NISHINA, Yuta
- 3A6-44[#]** Synthesis and Characterization of Conductive Cocoon using Polyani-line (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○KAITSUKA, Yuki; GOTO, Hiromasa
- 3A6-45** Design of ionic liquids to dissolve ATP (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○OKAFUJI, Akiyoshi; ICHIKAWA, Takahiro; OHNO, Hiroyuki
- 3A6-46** Structures and Properties of Anion-Mixed Ionic Plastic Crystals (Grad. Sch. Energy Sci., Kyoto Univ.) ○NONAKA, Ryojun; TANAKA, Ryo; MATSUMOTO, Kazuhiko; HAGIWARA, Rika
- 3A6-47** Development of ionic liquids for the Use of Conducting-Bridge Random Access Memory (Fac. Eng., Tottori Univ.) ○YAMAOKA, Hiroki; HARADA, Akinori; OGATA, Ryosuke; WATANABE, Kouhei; KINOSHITA, Kentaro; KISHIDA, Satoru; ITOH, Toshiyuki

Room A7
Bldg.14 1443

Functions of Materials

Thursday, March 26, AM

Chair: FUNAHASHI, Masahiro (9 : 00 ~ 9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(1A7-01, 1A7-03, 1A7-05)
- 1A7-01*** Motion Control of Polymer Actuators by Pulse Width Modulation (PWM) Method (Grad. Sch. Eng., Univ. of Fukui) ○SHOJI, Eiichi; KOMODA, Yoshimichi
- 1A7-03*** The Modification of Polymer Electrolyte Membrane by Ion beam Irradiation and the Application to the Fabrication of the Polymer Actuators (The Wakasa Wan Energy Research Center; Grad. Sch. Eng., Univ. of Fukui) ○HATASHITA, Masanori; SHOJI, Eiichi
- 1A7-05** Miscibility and carrier mobility of the binary systems composed of the alkyl homologues of mesogenic dialkylthienylphthalenes (UBIQEN, AIST; Fac. Sci. Tech., Ryukoku Univ.) ○KAWANO, Kouki; MATSUMOTO, Hiroki; NAWAMOTO, Shinzo; NISHIKAWA, Hiroya; MONOBE, Hirotsato; SHIMIZU, Yo
- Chair: SHOJI, Eiichi (10 : 00 ~ 11 : 00)
- * 9:50-10:00: interval for laptop PC connection.(1A7-07, 1A7-09, 1A7-10, 1A7-11, 1A7-12)
- 1A7-07*** Anomalous photovoltaic effect in ferroelectric liquid crystals based on phenylterthiophene skeleton (Fac. Eng., Kagawa Univ.) ○FUNAHASHI, Masahiro; FUNATSU, Yusuke
- 1A7-09** Thin film formation and polymerization of perylene derivatives bearing cyclotetrasiloxane rings at terminal position of alkyl chains (Grad. Sch. Eng., Kagawa Univ.) ○TAKENAMI, Kaede; FUNAHASHI, Masahiro
- 1A7-10** Synthesis and Mesomorphic Properties of Liquid-crystalline Phthalocyanine Derivatives Bearing Oligosiloxane Moieties (Grad. Sch. Eng., Kagawa Univ.) ○YAMAOKA, Ryutarō; FUNAHASHI, Masahiro
- 1A7-11** Color Change of Naphthalenetetracarboxylic Acid Diimide Derivatives by Odor Substances (Tri, Osaka) ○YAMASHITA, Reiko; KITA, Kohji
- 1A7-12** Two-photon absorption properties of multi-branched phenylethynylbenzene: extension of π -conjugation by electron donating styryl group (UBIQEN, AIST; Sch. Sci. Tech., Kwansai Gakuin Univ.; Fac. Sci., Shizuoka Univ.) NAMIKAWA, Tomotaka; ○KAMADA, Kenji; KITA, Yuto; FUJIWARA, Yutaka; KOBAYASHI, Kenji

Chair: KAMADA, Kenji (11 : 10 ~ 11 : 50)

- * 11:00-11:10: interval for laptop PC connection.(1A7-14, 1A7-16, 1A7-17)
- 1A7-14*** Construction of surface-enhanced terahertz spectroscopy by optical antenna effects (RIES, Hokkaido Univ.) ○UENO, Kosei; NOZAWA, Sho; MISAWA, Hiroaki
- 1A7-16** Plasmon-resonance-enhanced circularly polarized luminescence for chiral compounds interacted with Ag nanoparticles (Grad. Sch. Eng., Oita Univ.) ○HARADA, Takunori; KAJIYAMA, Naoki; UMEMURA, Kazuo; TOYOFUKU, Reona; IZUMI, Katsuki; MISHIMA, Kenji; IMAI, Yoshitane; TANIGUCHI, Naoya
- 1A7-17[#]** Design of the red luminescent organic semiconductor for OLET by modulating the crystal structure (Grad. Sch. Sci., Tohoku Univ.) ○MU, Shuai; TAKAISHI, Shinya; YAMASHITA, Masahiro

Thursday, March 26, PM

Chair: MOURI, Emiko (13 : 00 ~ 14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(1A7-25, 1A7-26, 1A7-27, 1A7-28, 1A7-29, 1A7-30)
- 1A7-25** Stretching and immobilization of photo-electro functional DNA nanowires by high-frequency and high-voltage application (Fac. Eng., Chiba Univ.) ○KUNIKYO, Taiki; TAKAHASHI, Ryota; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 1A7-26** Enhancement of red emission from Eu(III) chelate-doped hydrophobized DNA complex film. (Fac. Eng., Chiba Univ.) ○ITAMOTO, Natsumi; WATANABE, Wataru; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 1A7-27** Nanosheet sliding mechanism of polyfluorinated alkyl azobenzene derivative/niobate hybrids (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) ○NABETANI, Yu; Horiguchi, Haruo; HASSAN, Syed Zahid; RAMAKRISHNAN, Vivek; TACHIBANA, Hiroshi; INOUE, Haruo
- 1A7-28[#]** Photochemical studies on polyfluorinated cationic surfactants containing azobenzene moiety incorporated in nanolayered niobate (Urban Environmental Sci., Tokyo Metropolitan Univ.) ○HASSAN, Syed Zahid; RAMAKRISHNAN, Vivek; Horiguchi, Haruo; YAMAMOTO, Daisuke; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo
- 1A7-29** Development of Solvent Recognition Materials Containing Nickel(II) Complexes (Grad. Sch. Sci., Kobe Univ.) ○HOSOKAWA, Hitoshi; MOCHIDA, Tomoyuki
- 1A7-30** Applications of hectorite-silica core-shell particles as a HPLC column packing material (Fac. Eng., Shinshu Univ.) ○OKADA, Tomohiko; KUMASAKI, Aisaku; SHIMIZU, Kei; NAKAYAMA, Syunsuke; KITAZAWA, Takasi; SATO, Hisako; YAMAGISHI, Akihiko

Chair: KOBAYASHI, Norihisa (14 : 10 ~ 15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(1A7-32, 1A7-33, 1A7-34, 1A7-35, 1A7-36, 1A7-37)
- 1A7-32** Evolution of unidirectional macroscopic structures of colloidal liquid crystalline nanosheets induced by flow (Grad. Sch. Eng., KIT) ○MOURI, Emiko; NONO, Yoshihiro; NAKATO, Teruyuki
- 1A7-33** Synthesis of a dimeric Lemke dye, which has an oligosiloxane spacer. (Grad. Sch. Eng., Kagawa Univ.) ○SEIKE, Shusaku; FUNAHASHI, Masahiro
- 1A7-34** Two-Photon Absorption Property of Diacetylene Derivatives in Interlayer Space of a Clay Mineral (Grad. Sch. Med., Yamaguchi Univ.) ○SUZUKI, Yasutaka; MOCHIDA, Shuhei; SATOMI, Koichiro; SUGIHARA, Hiroyuki; TOMINAGA, Makoto; KAWAMATA, Jun
- 1A7-35** Clay, organic dye and polymer hybrid film exhibiting fluorescence color change responsive to the adding or removing of water (Fac. Sci., Yamaguchi Univ.) ○TOMINAGA, Makoto; ONIKI, Yudai; SUZUKI, Yasutaka; KAWAMATA, Jun
- 1A7-36** Liquid crystallinity of clay mineral nanosheet colloid controlled by DNA (Grad. Sch. Eng., Fukuoka Inst. Tech.) ○YAMAGUCHI, Naoya; MIYAMOTO, Nobuyoshi
- 1A7-37** Analysis of energy transfer among three dye components on inorganic nanosheet (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.; Grad. Sch. Eng., Hokkaido Univ.) ○KAWAGUCHI, Shintaro; OHTANI, Yuta; ISHIDA, Yohei; SHIMADA, Tetsuya; TAKAGI, Shinsuke

Chair: SUZUKI, Yasutaka (15 : 20 ~ 16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(1A7-39, 1A7-41, 1A7-42, 1A7-43)
- 1A7-39*** Liquid crystallinity and structural color in the colloids of layered perovskite nanosheets with varied layer thickness (Fukuoka Inst. Tech.) ○YAMAMOTO, Shinya; MIYAMOTO, Nobuyoshi; EBINA, Yasuo; SASAKI, Takayoshi
- 1A7-41** Photo-Induced Anomalous Deformation of the Poly(*N*-Isopropylacrylamide) hydrogel hybridized with organic dye and inorganic nanosheet liquid crystal aligned by Electric Field (Grad. Sch. Eng., Fukuoka Inst. Tech.) ○INADOMI, Takumi; MIYAMOTO, Nobuyoshi
- 1A7-42** Photochemical property of mono-cationic porphyrin on the clay surface (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) ○WAKAYAMA, Shouta; TSUKAMOTO, Takamasu; OHTANI, Yuta; SHIMADA, Tetsuya; TAKAGI, Shinsuke
- 1A7-43*** Molecular Design Strategy toward Diarylethenes that Photoswitch with Visible Light (RIES, Hokkaido Univ.; Grad. Sch. Eng., Kyoto Univ.; Coll. Sci., Rikkyo Univ.) ○FUKAMINATO, Tsuyoshi; HIROSE, Takashi; MATSUDA, Kenji; IRIE, Masahiro

Chair: EGUCHI, Miharū (16 : 30 ~ 17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(1A7-46, 1A7-47, 1A7-48, 1A7-49, 1A7-50, 1A7-51)
- 1A7-46** Higher-order structures and optical properties of self-assembly low molecular-mass organogels (Fac. Edu., Shimane Univ.; Fac. Textile Sci. Technol., Shinshu Univ.; Fac. Sci., Fukuoka Univ.; Grad. Sch. Sci. Eng., Saga Univ.; Inst. Eng., Tokyo Univ. of Agri. and Technol.; IMS; Fukuoka Inst. Tech. Fac. Eng.) KATSUBE, Shotaro; AMANO, Kenshi; SATO, Takaaki; KATSUMOTO, Yukiteru; UMEKI, Tatsuya; TAKAMUKU, Toshiyuki;

KAJI, Toshihiko; HIRAMOTO, Masahiro; MIYAMOTO, Nobuyoshi; ○NISHIYAMA, Katsura

- 1A7-47** Development of Chiral Fast Photochromic PABI derivatives (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○ARAI, Hiroki; YAMASHITA, Hiroaki; KOBAYASHI, Yoichi; ABE, Jiro
- 1A7-48** Syntheses and Optical Properties of Self-Assembled Nanofibers Formed by Photochromic Compounds (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○FUJITA, Yuuki; ARAI, Katsutoshi; MUTOH, Katsuya; YAMASHITA, Hiroaki; KOBAYASHI, Yoichi; ABE, Jiro
- 1A7-49** Development of a fast photochromic Phenoxyl-Imidazolyl radical Conjugates having thiophene backbone and surface modification of substrate (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○IKEZAWA, Takahiro; MUTOH, Katsuya; YAMASHITA, Hiroaki; KOBAYASHI, Yoichi; ABE, Jiro
- 1A7-50** Photoinduced movement of objects using supramolecular structure of diarylethene (Grad. Sch. Eng., Kyoto Univ.; PRESTO, JST) ○SAKAGUCHI, Akira; HIGASHIGUCHI, Kenji; MATSUDA, Kenji
- 1A7-51** Substitution Effect on Aggregation of Amphiphilic Diarylethenes (Grad. Sch. Eng., Kyoto Univ.; PRESTO, JST) ○YOTSUJI, Hajime; HIGASHIGUCHI, Kenji; MATSUDA, Kenji

Chair: HIGASHIGUCHI, Kenji (17 : 40~18 : 30)

- * 17:30-17:40: interval for laptop PC connection.(1A7-53, 1A7-54, 1A7-56)
- 1A7-53** Development and Photochromism of Fast Photochromic Naphthopyrans (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○ARAI, Katsutoshi; KOBAYASHI, Yoichi; ABE, Jiro
- 1A7-54*** Photochromic properties of fast photochromic molecules in PMMA-b-PBA block copolymers (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○MUTOH, Katsuya; ARAI, Katsutoshi; KOBAYASHI, Yoichi; ABE, Jiro
- 1A7-56*** Separation ability of bromide ion with carbon materials (Okayama Univ. Faculty of Science) ○NISHI, Masayasu; OHKUBO, Takahiro; KURODA, Yasushige

Friday, March 27, AM

Chair: ABE, Jiro (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2A7-01, 2A7-02, 2A7-03, 2A7-05)
- 2A7-01** Photochromism and photomechanical bending of diisopropylbenzophenone crystals (Sch. Advanced Sci. Eng., Waseda Univ.) ○HAGIWARA, Yuki; KITAJIMA, Mai; KOSHIMA, Hideko; ASAH, Toru
- 2A7-02** Photoinduced cytotoxicity of photochromic diarylethenes (Fac. Sci. Tech., Ryukoku Univ.; SCRC, AIST; Grad. Sch. Sci., The Univ. of Tokyo; Sch. Pharm., TUPLS; RIKEN RINC) ○OKUDA, Junya; KODAMA, Ryuhei; SUMARU, Kimio; KANAMORI, Toshiyuki; MORISITA, Kana; YAMAZOE, Seiji; HYODO, Kengo; YAMAZAKI, Syohei; MIYATAKE, Tomohiro; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; UCHIDA, Kingo
- 2A7-03**** Synthesis of photochromic terarylenes having benzophosphole oxide (Grad. Sch. Mat. Sci., NAIST) ○IIJIMA, Shunsuke; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 2A7-05*** UV light irradiation wavelength dependence on the photoinduced crystal bending behavior of diarylethene crystals (Grad. Sch. Eng., Osaka City Univ.) ○KITAGAWA, Daichi; KOBATAKE, Seiya

Chair: KAWAI, Tsuyoshi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2A7-08, 2A7-10, 2A7-11, 2A7-12)
- 2A7-08*** Molecular Design of a new family of fast photochromic molecule — Phenoxyl-Imidazolyl radical Conjugate (PIC) (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○YAMASHITA, Hiroaki; KOBAYASHI, Yoichi; ABE, Jiro
- 2A7-10** Photochromism of Tail-Phenoxyl-Imidazolyl Radical Conjugate via Two Transient Species. (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○SHIMA, Kentaro; YAMASHITA, Hiroaki; KOBAYASHI, Yoichi; ABE, Jiro
- 2A7-11** Photoresponsivity of a Novel Phenoxyl-Imidazolyl Radical Conjugate Derivative (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○YAMANE, Takuya; MUTOH, Katsuya; YAMASHITA, Hiroaki; KOBAYASHI, Yoichi; ABE, Jiro
- 2A7-12*** Revealing Transient Species of Fast Photoswitch Molecules by Time-Resolved Infrared Absorption Spectroscopy (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KOBAYASHI, Yoichi; YAMASHITA, Hiroaki; ABE, Jiro

Chair: KOBATAKE, Seiya (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2A7-15, 2A7-17, 2A7-19, 2A7-20)
- 2A7-15*** Thermochemical and Photochemical Behavior of Negative Photochromic Biaryl-Bridged Imidazole Dimers (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○NAGASE, Yuta; KOBAYASHI, Yoichi; ABE, Jiro
- 2A7-17*** Tuning of the Thermal Isomerization Rate of Biaryl-Bridged Imidazole Dimers (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○YAMAGUCHI, Tetsuo; KOBAYASHI, Yoichi; ABE, Jiro
- 2A7-19*** Photochromism of naphthopyrans possessing a spirophenanthrene unit (Tokuyama Corporation Fine Chemical Sales Dept.) ○MOMODA, Junji; IZUMI, Shinobu; YOKOYAMA, Yasushi
- 2A7-20** Photochromism of diarylethenes having various different substituents

on the ring-closing carbon atoms (Grad. Sch. Eng., Yokohama Natl. Univ.) ○KAICHI, Hideo; ARAI, Mahito; NAKAGAWA, Tetsuya; YOKOYAMA, Yasushi

Friday, March 27, PM

Chair: NAKANO, Hideyuki (13 : 30~14 : 40)

- * 13:20-13:30: interval for laptop PC connection.(2A7-28, 2A7-29, 2A7-30, 2A7-31, 2A7-32, 2A7-33, 2A7-34)
- 2A7-28** Enantioselective photocyclization of bisthiénylenes incorporated in human serum albumin and circular dichroism (Grad. Sch. Eng., Yokohama Natl. Univ.) ○WATANABE, Yuta; OSAWA, Ken; FUKAGAWA, Mai; NAKAGAWA, Tetsuya; YOKOYAMA, Yasushi
- 2A7-29** Synthesis of fluorescent photochromic diarylethenes that turn on upon visible light irradiation (Rikkyo Univ. Department of Chemistry) ○SUMI, Takaki; KABURAGI, Tomohiro; MORIMOTO, Masakazu; IRIE, Masahiro
- 2A7-30** Synthesis and photochromic properties of diarylethenes having benzophosphole groups (Grad. Sch. Sci., Rikkyo Univ.) ○ICHIKAWA, Tomohiro; MORIMOTO, Masakazu; IRIE, Masahiro
- 2A7-31** Synthesis of Photochromic Terthiazole Dimer and Oxidative Isomerization (Grad. Sch. Mat. Sci., NAIST) ○HORI, Keichi; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 2A7-32** Chiral Arrangement and Photo-controlling of Perylene-bis-imide Units Bridged with Photochromic Tetra-arylene (Grad. Sch. Mat. Sci., NAIST) ○YUICHIRO, Hashimoto; TAKUYA, Nakashima; TSUYOSHI, Kawai
- 2A7-33** Photoisomerization Behavior of Silica Nanoparticles Modified Chemically with Spirobenzopyran and Oligoethyleneglycol Moieties (Fac. Sys. Eng., Wakayama Univ.) ○SHIROTANI, Naoya; NAKAHARA, Yoshio; KIMURA, Keiichi
- 2A7-34*** Reversible Photocontrol over Axial Coordination of Diarylethene-Based Pyridine Ligands to Zinc-Porphyrin Using Substituents Effect (Grad. Sch. Eng., Kyoto Univ.) ○LU, Cheng; HIROSE, Takashi; MATSUDA, Kenji

Chair: KOSHIMA, Hideko (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(2A7-48, 2A7-49, 2A7-50, 2A7-51, 2A7-52)
- 2A7-48** Photomechanical Behaviors of Azobenzene-based Photochromic Amorphous Molecular Materials in Agar Gel (MURORAN INST. OF TECH. Faculty of Engineering) ○ICHIKAWA, Ryota; NAKANO, Hideyuki
- 2A7-49** Thermally Reversible Phase Separation of Azobenzene-based Amorphous Molecular Materials - Poly(vinyl acetate) Hybrid Films and Photo-induced Deformation of their Domain Structures (MURORAN INST. OF TECH. Faculty of Engineering) ○ICHIKAWA, Ryoji; NAKANO, Hideyuki
- 2A7-50** Photochromism of Diarylethene on Gold Nanoprism (Grad. Sch. Eng., Kyoto Univ.; JST PRESTO) ○NAKAZAKI, Mizuhō; HIGASHIGUCHI, Kenji; MATSUDA, Kenji
- 2A7-51** Photoinduced liquid crystalline phase transitions of azobenzene-triphenylene derivatives on the polyimide coated substrates (Grad. Sch. Sci. Tech., Ryukoku Univ.; UBIQEN, AIST) ○MINOBE, Ryota; CHIKAMORI, Kazuki; TANAKA, Daisuke; SHIMIZU, Yo; UCHIDA, Kingo
- 2A7-52** Photoinduced linear birefringence change of diarylethene single crystals (Grad. Sch. Eng., Osaka City Univ.) ○TSUJIOKA, Hajime; KOBATAKE, Seiya

Chair: NAKAGAWA, Tetsuya (17 : 50~18 : 40)

- * 17:40-17:50: interval for laptop PC connection.(2A7-54, 2A7-55, 2A7-57, 2A7-58)
- 2A7-54*** Photomechanical bending of chiral crystals of azobenzene derivatives (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○TANIGUCHI, Takuya; FUJISAWA, Juri; KOSHIMA, Hideko; ASAH, Toru
- 2A7-55**** Photoelectrochemical characterization of titanium oxide-manganese oxide nano-film fabricated by organic-inorganic hybrid LB method (Fac. Textile Sci. Technol., Shinshu Univ.) ○USAMI, Hisanao; NISHIZAWA, Ryo; KONISHI, Suguru
- 2A7-57** Photochemical Function of Porphyrins Incorporated in Cobaltate Nanosheet Stacked Thin Films (Grad. Sch. Fac. Sci. Eng., Shimane Univ.; Fac. Textile Sci. Technol., Shinshu Univ.) ○SASAI, Ryo; KATO, Yuki; USAMI, Hisanao
- 2A7-58** Photochemical Reaction of Multilayer Thin Solid Films Consisting of Both Rh-Doped Titanate Nanosheet and Cationic Porphyrins (Fac. Sci. Eng., Shimane Univ.; Fac. Textile Sci. Technol., Shinshu Univ.) ○SOONTORNCHAIYAKUL, Wasusate; SASAI, Ryo; USAMI, Hisanao

Saturday, March 28, AM

Chair: SAITO, Shohei (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3A7-01, 3A7-02, 3A7-04, 3A7-05)
- 3A7-01** Changes in luminescence properties of rod-like gold complexes induced by thermal phase transitions (Coll. Life Sci., Ritsumeikan Univ.) ○KAWANO, Ryo; YAMADA, Shigeyuki; TSUTSUMI, Osamu

- 3A7-02**** Luminescence of Polymer Liquid Crystals Containing Mesogenic Au Complexes (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○YOUNIS, Osama; YAMADA, Shigeyuki; TSUTSUMI, Osamu
- 3A7-04** Photoluminescence Properties of Trinuclear Gold Complexes in Nano Spaces (Coll. Life Sci., Ritsumeikan Univ.) ○NAKAMURA, Kyosuke; YAMADA, Shigeyuki; TSUTSUMI, Osamu
- 3A7-05*** Solid-state fluorochromism based on intra- and intermolecular hydrogen bonding control (Fac. Phot. Sci., CIST; IMRAM, Tohoku Univ.) ○SAKAI, Ken-ichi; TSUCHIYA, Saki; TOKUMITSU, Seika; KIKUCHI, Takemitsu; AKUTAGAWA, Tomoyuki

Chair: TSUTSUMI, Osamu (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3A7-08, 3A7-09, 3A7-10, 3A7-11)
- 3A7-08** Flexible Fluorophore for the Visualization of Epoxy Resin Curing (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; PRESTO, JST) ○MORI, Chigusa; SAITO, Shohei; YUAN, Chunxue; YAMAGUCHI, Shigehiro
- 3A7-09** Reversible Color Change of Azobenzene Derivative and p-Toluene Sulfonic Acid Binary Films (MURORAN INST. OF TECH. Faculty of Engineering) ○ICHIKAWA, Ryoji; NAGATA, Eisuke; NAKANO, Hideyuki
- 3A7-10** Emission Intensity Modulation Using Poly(vinyl acetate) - Quaternary Salts Hybrid Films Doped with Fluorescent Dyes (MURORAN INST. OF TECH. Faculty of Engineering) ○OGURA, Kosuke; HOSHI, Zenzo; NAGATA, Eisuke; ICHIKAWA, Ryoji; NAKANISHI, Takayuki; HASEGAWA, Yasuchika; NAKANO, Hideyuki
- 3A7-11** CSJ Award for Young Chemists Flexible Fluorophores for Materials Imaging Technique (RCMS, Nagoya Univ.) ○SAITO, Shohei

Chair: HIRATA, Shuzo (11 : 20~12 : 00)

- * 11:10-11:20: interval for laptop PC connection.(3A7-15, 3A7-16, 3A7-17, 3A7-18)
- 3A7-15** Photoexcited states of UV-B absorbers : ethylhexyl triazone and diethylhexylbutamido triazone (Grad. Sch. Eng., Yokohama Natl. Univ.) ○TSUCHIYA, Takumi; KIKUCHI, Azusa; OGUCHI-FUJIYAMA, Nozomi; MIYAZAWA, Kazuyuki; YAGI, Mikio
- 3A7-16** Energy-Donor Phosphorescence Quenching Study of Triplet-Triplet Energy Transfer between UV Absorber (Grad. Sch. Eng., Yokohama Natl. Univ.) ○NAKABAI, Yuya; KIKUCHI, Azusa; YAGI, Mikio
- 3A7-17** Precise control of the interlayer distance of the hetero stacked structure composed of various metal oxide nanosheets (Grad. Sch. Sci., Eng., Tokyo Tech) ○ANO, Taishi; KISHIMOTO, Fuminao; MOCHIZUKI, Dai; TERAUCHI, Takayuki; MAITANI, Masato; SUZUKI, Eiichi; WADA, Yuji
- 3A7-18** Control of photo-induced charge separation at hetero stacked structure of metal oxide nanosheets (Grad. Sch. Sci., Eng., Tokyo Tech) ○KISHIMOTO, Fuminao; MOCHIZUKI, Dai; ANO, Taishi; TERAUCHI, Takayuki; MAITANI, Masato; SUZUKI, Eiichi; WADA, Yuji

Saturday, March 28, PM

Chair: ITO, Hajime (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(3A7-26, 3A7-29, 3A7-31)
- 3A7-26** Young Scholar Lectures of CSJ Organic functional materials utilizing long-lived room temperature triplet excitons (Grad. Sch. Sci., Eng., Tokyo Tech) ○HIRATA, Shuzo
- 3A7-29*** Synthesis of fluorine-containing rod-shaped gold(I) complexes and their photoluminescence behavior (Coll. Life Sci., Ritsumeikan Univ.) ○YAMADA, Shigeyuki; YAMAGUCHI, Shun; TSUTSUMI, Osamu
- 3A7-31** Conducting properties of luminescent gold complexes (Coll. Life Sci., Ritsumeikan Univ.) ○NAKASATO, Hitoya; SHIMAI, Shingo; YAMADA, Shigeyuki; TSUTSUMI, Osamu

Chair: ASAOKA, Sadayuki (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(3A7-33, 3A7-35, 3A7-36, 3A7-37, 3A7-38)
- 3A7-33*** Multicolored Mechanochromism of Gold(I) Isocyanide Complex (Grad. Fac. Eng., Hokkaido Univ.) ○SEKI, Tomohiro; OZAKI, Taichi; OKURA, Takuma; SAKON, Aya; UEKUSA, Hidehiro; ITO, Hajime
- 3A7-35** Mechanofluorochromic Behavior of 1-Carbamoylpyrene Derivatives (MURORAN INST. OF TECH. Faculty of Engineering) ○ARA, Takuya; NAGATA, Eisuke; NAKANO, Hideyuki
- 3A7-36** Mechanofluorochromic Behavior of 1-Acetylamino pyrene Adsorbed onto a Cellulose Paper (MURORAN INST. OF TECH. Faculty of Engineering) ○NAGATA, Eisuke; NAKANO, Hideyuki
- 3A7-37** The mechanisms in the control of red emission from Europium(III) complex induced by electrochromic reaction of viologen derivatives (Fac. Eng., Chiba Univ.; Fac. Eng., Chiba Univ.) ○KOMIYA, Yuta; KANAZAWA, Kenji; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 3A7-38** Syntesis and characterization of layered double hydroxide including rare-earth metal in the basic layer (Yonago Nat. Coll. of Tech. Advanced Engineering Course) ○OHARA, Hiroki; DATE, Yusuke; SASAI, Ryo; HINO, Eiichi; FUJII, Takatoshi; AOKI, Kaoru; ODA, Kohei

Chair: KIMURA, Mutsumi (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(3A7-40, 3A7-41, 3A7-42, 3A7-44, 3A7-45)
- 3A7-40** Fabrication of fluorescent thin film using nitrate type layered double hydroxide (Yonago Nat. Coll. of Tech. materials science) ○DATE, Yusuke; KAGAWA, Yoichi; SASAI, Ryo; HINO, Eiichi; FUJII, Takatoshi; AOKI, Kaoru; ODA, Kohei
- 3A7-41** Energy transfer in porphyrin array arranged at phase segregation interface of highly ordered cylindrical nanostructure (KIT; KIT) ○KOBAYASHI, Akari; TOKUOKA, Takashi; TAKAHASHI, Mitsuharu; AOTANI, Masashi; ASAOKA, Sadayuki
- 3A7-42**** Elucidation of relationship between regioisomers of [70]fullerene monoadducts and photovoltaic performances of polymer solar cells (Grad. Sch. Eng., Kyoto Univ.) ○UMEYAMA, Tomokazu; MIYATA, Tetsushi; KUROTOBI, Kei; HIGASHINO, Tomohiro; IMAHORI, Hiroshi
- 3A7-44** Boosting of the Performance of Perovskite Solar Cells through Systematic Introduction of Reduced Graphene Oxide in TiO₂ Layer (Kyoto Univ. Graduate School of Engineering) ○MATANO, Daichi; UMEYAMA, Tomokazu; VAIDYANATHAN(RAVI), Subramanian; IMAHORI, Hiroshi
- 3A7-45** Polymer-Assisted Construction of Mesoporous TiO₂ Layer for Perovskite Solar Cells (Kyoto Univ. Graduate School of Engineering) ○KOHARA, Yuki; UMEYAMA, Tomokazu; YUE, Youfeng; SIVANIAH, Easan; IMAHORI, Hiroshi

Chair: UMEYAMA, Tomokazu (16 : 40~17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(3A7-47, 3A7-49, 3A7-50, 3A7-51, 3A7-52)
- 3A7-47*** Bulk-heterojunction solar cells composed of disk-shaped molecules having unfunctional side chains (Fac. Textile Sci. Technol., Shinshu Univ.) ○TAKEMOTO, Keisuke; KIMURA, Mutsumi
- 3A7-49** Dye-sensitized solar cell using ruthenium complexes having a triphenylamine side chain (Fac. Textile Sci. Technol., Shinshu Univ.) ○TAMURA, Rei; KONO, Takahiro; MORI, Shogo; KIMURA, Mutsumi
- 3A7-50** Thermoelectric Properties of Electrosynthesized PEDOT Films (Fac. Eng., Hiroshima Univ.) ○GOTO, Tatsunari; ZHANG, Lu; IMAE, Ichiro; HARIMA, Yutaka
- 3A7-51** Development of carbon nanotube-Polymer Composite Materials Having an n-Type Thermoelectric Properties (Fac. Eng., Tokyo Univ. of Sci., Yamaguchi) ○OHSHIMA, Keisuke; SAKURA, Naoko; SHIRAIISHI, Yukihide; TOSHIMA, Naoki
- 3A7-52** Development of carbon nanotube composite for thermoelectric conversion materials (Grad. Sch. Eng., Kyushu Univ.) FUJIGAYA, Tsuyohiko; ○FUKUMARU, Takahiro; HUANG, Wenxin; NAKASHIMA, Naotoshi

Sunday, March 29, AM

Chair: TAKEOKA, Shinji (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4A7-01, 4A7-02, 4A7-03, 4A7-04, 4A7-05)
- 4A7-01** Development of α -Cyclodextrin Derivatives Having trans-Fatty Acid-Selective Recognition Ability (Sch. Eng., Osaka Univ.) ○MITSUHASHI, Yuki; KIDA, Toshiyuki; AKASHI, Mitsuru
- 4A7-02** Selective adsorption of stale aged odor in Japanese sake with supported gold nanoparticles (Kyushu Univ. Graduate School of Science) ○YAMAMOTO, Yusuke; HASEGAWA, Takayuki; ISHIDA, Tamao; HAMASAKI, Akiyuki; TOKUNAGA, Makoto; ISOGAI, Atsuko; FUJII, Tsutomu
- 4A7-03** Reaction analysis on adsorption of alkyl sulfates by Mg-Al oxide (Grad. Sch. Environmental Studies, Tohoku Univ.) ○UMETSU, Mami; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 4A7-04** Removal of fluoride by means of adsorption process with magnesium oxide -Availability assessment (Grad. Sch. Environmental Studies, Tohoku Univ.) ○YAMAMOTO, Yuusuke; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 4A7-05*** Manipulation of immune responses by nanoparticle adjuvants composed of amphiphilic poly(γ -glutamic acid) (Grad. Sch. Eng., Osaka Univ.) ○SHIMA, Fumiaki; AKAGI, Takami; AKASHI, Mitsuru

Chair: KIDA, Toshiyuki (10 : 10~11 : 20)

- * 10:00-10:10: interval for laptop PC connection.(4A7-08, 4A7-10, 4A7-11, 4A7-12, 4A7-13, 4A7-14)
- 4A7-08*** Fabrication of cholesterol-conjugated SN-38 nanoparticles and their drug efficacy (IMRAM, Tohoku Univ.) ○KOSEKI, Yoshitaka; IKUTA, Yoshikazu; MURAKAMI, Tatsuya; GONDA, Kohsuke; CONG, Liman; TADA, Hiroshi; OHUCHI, Noriaki; ONODERA, Tsunenobu; OIKAWA, Hidetoshi; KASAI, Hitoshi
- 4A7-10** Drug-Controlled Release from Biodegradable Nanosheets Using Polymer Blend (Sch. Advanced Sci. Eng., Waseda Univ.) ○NISHIWAKI, Keisuke; FUJIE, Toshinori; FUJII, Mao; TAKEOKA, Shinji
- 4A7-11** Development of PLLA/elastin-laminin mimicking artificial extracellular matrix fibrous scaffold for nerve regeneration (Dep. Bio. Eng., NCVC) ○KAKINOKI, Sachiro; NAKAYAMA, Midori; MORITAN, Toshiyuki; YAMAOKA, Tetsuji
- 4A7-12** Soft tissue infiltration into porous material with different surface

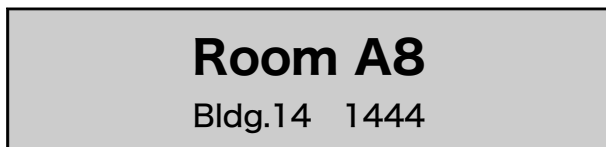
chemical properties (Dep. Bio. Eng., NCVC) ○YASUDA, Yuuki; KAKINOKI, Sachiro; KAMBE, Yusuke; IWASAKI, Yasuhiko; YAMAOKA, Tetsuji

- 4A7-13** Oxygen Affinity and Safety of Hemoglobin-Albumin Cluster (Fac. Sci. Eng., Chuo Univ.; Keio Univ. Fac. Med.) ○IWASAKI, Hitomi; SHINOHARA, Ryuichi; HARUKI, Risa; KAMIYAMA, Ikuo; KOHNO, Mitsutomo; KOMATSU, Teruyuki
- 4A7-14** Enhancement of Photodynamic Effects of Single-Walled Carbon Nanotubes via Chirality Enrichment (Sch. Eng., Kyoto Univ.) ○FUKUDA, Ryosuke; NAKATSUJI, Hirotaka; UMEYAMA, Tomokazu; IMAHORI, Hiroshi; MURAKAMI, Tatsuya

Chair: KASAI, Hitoshi (11 : 30~12 : 20)

* 11:20-11:30: interval for laptop PC connection.(4A7-16, 4A7-17, 4A7-18, 4A7-19)

- 4A7-16** Redox Actuator Based on Transfer Printing of Carbon Film Electrode on Cupric ion-containing Poly(acrylic acid) gel (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○ASANO, Ryoma; SHITANDA, Isao; HOSHI, Yoshinao; TAKADA, Kazutake; ITAGAKI, Masayuki
- 4A7-17** Visible-to-UV Photon Upconversion through Triplet-Triplet Annihilation (Grad. Sch. Eng., Kyushu Univ.; Kyushu Univ. CMS; PRESTO, JST) ○KOZUE, Mariko; YANAI, Nobuhiro; KIMIZUKA, Nobuo
- 4A7-18** Investigation of Molecular System for Near Infrared-to-Visible Photon Upconversion (Grad. Sch. Eng., Kyushu Univ.; Kyushu Univ. CMS; PRESTO, JST) ○AMEMORI, Shogo; YANAI, Nobuhiro; KIMIZUKA, Nobuo
- 4A7-19*** Air-Stable Photon Upconversion Systems based on Supramolecular Gels (Grad. Sch. Eng., Kyushu Univ.; Kyushu Univ. CMS; PRESTO, JST) ○YANAI, Nobuhiro; DUAN, Pengfei; KIMIZUKA, Nobuo



Applications of Materials

Thursday, March 26, AM

Nanocomposite

Chair: HARA, Mitsuo (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1A8-01, 1A8-02, 1A8-03, 1A8-04, 1A8-05, 1A8-06)

- 1A8-01** Preparation and Application of Fluorinated Alcohol/Boric Acid/Organic Polymers Bearing Hydroxyl Groups Nanocomposites (Grad. Sch. Sci. Tech., Hirosaki Univ.; UNIMATEC) ○JIN, Natsuki; SAITO, Tomoya; SATO, Katsuyuki; SAWADA, Hideo
- 1A8-02** Photocatalytic activity of poly(tetrafluoroethylene)/silica/anatase-titanium oxide nanocomposites, which were prepared under a variety of conditions, before and after calcination (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○TAKEGAHARA, Yutaro; OIKAWA, Yuri; SAWADA, Hideo
- 1A8-03** LCST Characteristics of Fluoroalkyl End-capped Coilgomiceric Nanoparticles Bearing Diol Segments in the Presence of a Variety of Hydroxyl Groups-Containing Organic Compounds (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○NISHIURA, Katsuhito; SAWADA, Hideo
- 1A8-04** Preparation of sol-gel transparent film from alkoxysilane with reactive organic function. (Panasonic Corp. Production Engineering Laboratory) ○TOYOTA, Kei; OIKAWA, Kazuma
- 1A8-05** Preparation and Thermal Stability of Fluoroalkyl End-capped Oligomers/Magnesium Oxide Nanocomposites (Fac. Sci. Tech., Hirosaki Univ.; Grad. Sch. Sci. Tech., Hirosaki Univ.) ○KASAI, Fumihiko; OIKAWA, Yuri; SAWADA, Hideo
- 1A8-06** Preparation and Application of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/*N*-(3-triethoxysilylpropyl)gluconamide Nanocomposites (Fac. Sci. Tech., Hirosaki Univ.; Grad. Sch. Sci. Tech., Hirosaki Univ.) ○FUJII, Shogo; SAITO, Tomoya; SAWADA, Hideo

Chair: NAGANO, Shusaku (10 : 10~11 : 00)

* 10:00-10:10: interval for laptop PC connection.(1A8-08, 1A8-09, 1A8-11)

- 1A8-08** Preparation and Application of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/ Methyltrimethoxysilane Nanocomposites (Fac. Sci. Tech., Hirosaki Univ.; Grad. Sch. Sci. Tech., Hirosaki Univ.) ○SASAHARA, Shohei; AOMI, Yuta; KIJIMA, Tetsushi; SAWADA, Hideo
- 1A8-09*** Gelation and Applications of Ionic Liquids by the Use of Fluorinated Oligomer Nanocomposites (Grad. Sch. Sci. Tech., Hirosaki Univ.; TOHOKU CHEMICAL Co., Ltd.) ○TSUZUKI-ISHI, Taiki; SUTOU, Yoshitaka; SAWADA, Hideo
- 1A8-11*** Effects of interference gases for cerium oxide oxygen sensor (AMRI, AIST; Taiyo Nippon Sanso Corporation Analysis Technology Center) ○ITO, Toshio; IZU, Noriyo; AKAMATSU, Takahumi; SHIN, Woosuck; MIKI, Yusuke; HIROSE, Yasuo

Chair: ITOH, Toshio (11 : 10~11 : 50)

* 11:00-11:10: interval for laptop PC connection.(1A8-14, 1A8-16, 1A8-17)

- 1A8-14*** Creation of modified glass surface possessing superamphiphobicity and superhydrophilic-superoleophobicity by using fluorinated acid fluorides/calcium carbonate nanocomposites (Grad. Sch. Sci. Tech., Hirosaki Univ.; Mitsubishi Materials Electronic Chemicals Co., Ltd.) ○SAITO, Tomoya; HONDA, Tsunetoshi; KAMIYA, Takeshi; FUJITA, Masato; SAWADA, Hideo
- 1A8-16** Encapsulation of Polystyrene particles into Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Talc Nanocomposite Cores-Application to the Water/Oil Separation Membrane (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○OIKAWA, Yuri; SAITO, Tomoya; SAWADA, Hideo
- 1A8-17** Preparation and Thermal Stability of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Boric Acid Nanocomposites - Encapsulated A Variety of Low Molecular Weight Compounds (Grad. Sch. Sci. Tech., Hirosaki Univ.; AIST chubu) ○AOMI, Yuta; NISHIDA, Masakazu; TANAKA, Tomoko; SAWADA, Hideo

Thursday, March 26, PM

Functional Dye

Chair: FUNABIKI, Kazumasa (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(1A8-25, 1A8-27, 1A8-28, 1A8-29, 1A8-30)

- 1A8-25*** Hydrochromic Peylene Bisimides (Universitaet Wuerzburg; Grad. Sch. Eng., Osaka Pref. Univ.) ○MAEDA, Takeshi; STOLTE, Matthias; WUERTHNER, Frank
- 1A8-27** Synthesis of U-shaped Squaraine Dyes Bearing Various Polar Functionalities and Their Application to Dye-sensitized Solar Cells (Grad. Sch. Eng., Osaka Pref. Univ.) ○SANO, Youhei; MOTOYAMA, Tomohiro; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki
- 1A8-28** NIR-absorbing Squaraine Dyes for Organic Photovoltaics (Grad. Sch. Eng., Osaka Pref. Univ.) ○MAEDA, Takeshi; KITAGAWA, Shoichi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki
- 1A8-29** Radiation detection by Naked Eyes Using PHenothiazine and Naphtalimide Color Formers. (Fac. Eng., Saitama Univ.; Tokyo Metropolitan Industrial Technology Reserch Institute Research and Development Department) ○KISHI, Toshihaya; SEKIGUCHI, Masayuki; NAKAGAWA, Kiyoko; TACHIKAWA, Tatsuya
- 1A8-30** Chemical Sensors Based on Spiropyrans for Visual Detection of Radiation (Fac. Eng., Saitama Univ.; Tokyo Metropolitan Industrial Technology Reserch Institute Research and Development Department) ○HANAMURA, Ryou; SEKIGUCHI, Masayuki; NAKAGAWA, Kiyoko; TACHIKAWA, Tatsuya

Chair: MAEDA, Takeshi (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(1A8-32, 1A8-34, 1A8-36, 1A8-37)

- 1A8-32*** Syntheses and Self-organized Properties of Phthalocyanines fused with benzodithiophene. (Grad. Sch. Sci. Technol., Shinshu Univ.) ○SUZUKI, Hiroyuki; ONO, Kenta; OHTA, Kazuchika; KIMURA, Mutsumi
- 1A8-34**** Novel Environment-friendly Red Pigments Based on Bi₄V₂O₁₁ (- Grad. Sch. Eng., Osaka Univ.) ○WEN, Dusu; TAKEUCHI, Naoki; MASUI, Toshiyuki; IMANAKA, Nobuhito
- 1A8-36** Estimation of near-infrared absorbing organic dyes carrying fluorinated anions (Fac. Eng., Gifu Univ.) FUNABIKI, Kazumasa; ○YAGI, Kazutaka; KUBOTA, Yasuhiro; MATSUI, Masaki
- 1A8-37** Synthesis and Fluorescence Properties of Squarylium-Boron Complexes (Fac. Eng., Gifu Univ.) KUBOTA, Yasuhiro; ○TACHIKAWA, Motoki; TSUKAMOTO, Masahiro; ONISHI, Katsuhiro; FUNABIKI, Kazumasa; MATSUI, Masaki

Chair: KIMURA, Mutsumi (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(1A8-39, 1A8-40, 1A8-41, 1A8-42, 1A8-43, 1A8-44)

- 1A8-39** Color Former Organo-gel for Radiation Detection on Naked Eyes (Fac. Eng., Saitama Univ.; Tokyo Metropolitan Industrial Technology Reserch Institute Research and Development Department) ○TACHIKAWA, Tatsuya; ARAI, Hazuki; SEKIGUCHI, Masayuki
- 1A8-40** Water-Soluble Phenazine-type Color Former for Radiation Detection on Naked Eyes (Fac. Eng., Saitama Univ.; Tokyo Metropolitan Industrial Technology Reserch Institute Research and Development Department) ○UESUGI, Wataru; KOKAJI, Takumi; SEKIGUCHI, Masayuki; NAKAGAWA, Kiyoko; TACHIKAWA, Tatsuya
- 1A8-41** Synthesis and characterization of water-soluble phosphorous(V) complex of phthalocyanine (NIMS NIMS Environmental Remediation Materials Unit) ○ISAGO, Hiroaki; FUJITA, Harumi
- 1A8-42** Optical properties of alkoxy-substituted bisazomethine dyes having dipropyl or dibutyl amino terminal groups in vacuum deposited films (Yokohama Natl. Univ.) ○UEHARA, Takuya; YU, Hyungwook; MATSUMOTO, Shinya
- 1A8-43** The crystal structure of 2,2' -diallyl-4,4' -sulfonyldiphenol used as a color developer in thermal paper (Yokohama Natl. Univ. College of Engineering Science; NIPPON KAYAKU Corporation Limited Functional

Chemicals R&D Laboratories) ○OHASHI, Tatsuya; GONTANI, Saori; MIYANAGA, Kyohei; KURATA, Takaaki; AKATANI, Yoshiki; MATSUMOTO, Shinya

- 1A8-44** Synthesis and Optical Properties of Novel α -Aryl-Substituted Metallonaphthalocyanines (Grad. Sch. Eng., Osaka Pref. Univ.; Yamamoto Chemicals, Inc. R&D DIVISION) ○NAKANO, Yuta; TAKATA, Tomonari; AOYAGI, Tatsuya; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki; EZOE, Masayuki; SASAKI, Hiroyuki; KUMAGAE, Youjiro

Chair: MATSUMOTO, Shinya (16 : 30~17 : 10)

* 16:20-16:30: interval for laptop PC connection.(1A8-46, 1A8-47, 1A8-48, 1A8-49)

- 1A8-46** Preparation and properties of aminoanthraquinone-boron complex dye. (Fac. Eng., Gifu Univ.) ○AKADA, Hiroki; KUBOTA, Yasuhiro; HUNABIKI, Kazumasa; MATSUI, Masaki

- 1A8-47** Synthesis and Photoluminescent Properties of Dibenzo[*a,c*]phenazine Derivatives Bearing π -Extended Side-arms (Grad. Sch. Eng., Osaka Pref. Univ.) ○HE, Yanjun; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki

- 1A8-48** Synthesis and Luminescent Properties of Novel Red Phosphorescent Organoiridium Complexes Bearing Dibenzothiophene-Based Cyclometalated Ligands (Grad. Sch. Eng., Osaka Pref. Univ.; TANAKA HOLDINGS Co., Ltd.) ○SUN, Liwen; OKAMURA, Naoki; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki; MASAHIRO, Yasushi

- 1A8-49** Luminescent Behavior of Novel Organoiridium Complexes Bearing Aromatic Ancillary Ligands Based on Interligand Charge Transfer Transition (Grad. Sch. Eng., Osaka Pref. Univ.; TANAKA Holdings Co., Ltd.) ○KITADE, Yamato; OKAMURA, Naoki; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki; MASAHIRO, Yasushi

Friday, March 27, AM

emitting materials

Chair: KONDO, Mizuho (9 : 00 ~9 : 50)

* 8:50-9:00: interval for laptop PC connection.(2A8-01, 2A8-02, 2A8-03, 2A8-05)

- 2A8-01** Synthesis and Luminescent Properties of Novel Iridium(III) Complexes Bearing 2-Phenyl-1*H*-imidazole-type Cyclometalated Ligands (Grad. Sch. Eng., Osaka Pref. Univ.) ○ISHIGURO, Kazuya; OKAMURA, Naoki; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki

- 2A8-02** Synthesis and Luminescent Properties of Dendrimer-type Blue Phosphorescent Organoiridium Complexes Bearing 3,5-Di(carbazol-9-yl)phenyl-Appended Dendrons (Grad. Sch. Eng., Osaka Pref. Univ.) ○OKAMURA, Naoki; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki

- 2A8-03** Development of Bisboron Complexes for Near-infrared Solid-state Fluorescent Materials (Fac. Eng., Gifu Univ.) ○KUBOTA, Yasuhiro; KASATANI, Kohei; FUNABIKI, Kazumasa; MATSUI, Masaki

- 2A8-05** Influence of Boronic Acid Ester on Water Detection of Photo-induced Electron Transfer (PET) Type Fluorescence Sensor (Fac. Eng., Hiroshima Univ.) ○AOYAMA, Satoshi; FURUE, Kensuke; OYAMA, Yousuke; OHSHITA, Joji

dye sensitization • dyes

Chair: YAGI, Shigeyuki (10 : 00~10 : 50)

* 9:50-10:00: interval for laptop PC connection.(2A8-07, 2A8-08, 2A8-09, 2A8-10, 2A8-11)

- 2A8-07** Substituent Effect of Catechol Dyes on Photovoltaic Performances of Type-II Dye-sensitized Solar Cell (Grad. Sch. Eng., Hiroshima Univ.) ○KANDA, Masahiro; UENAKA, Koji; OYAMA, Yousuke; OHSHITA, Joji

- 2A8-08** Tuning photoluminescent wavelength of mechanochromic lumino-phore by non-covalent bonding (Grad. Sch. Eng., Univ. of Hyogo) ○KONDO, Mizuho; OKUMOTO, Kentaro; MIURA, Seiya; KAWATSUKI, Nobuhiro

- 2A8-09** Seeking of Heteropolycyclic Dyes Possessing Generation Characteristics of Singlet Oxygen (Grad. Sch. Eng., Hiroshima Univ.) ○ENOKI, Toshiaki; OYAMA, Yousuke; KOMAGUCHI, Kenji; OHSHITA, Joji

- 2A8-10** Electron transfer property and synthesis of Subphthalocyanines and 3 + 1 type un-symmetric phthalocyanines (Coll. Industrial Tech., Nihon Univ.) ○KUBO, Hitomi; SUGAYA, Kazuhiro; YOSHINO, Satoru; KOMORIYA, Tomoe; SAKAMOTO, Keiichi

- 2A8-11** Squarylium sensitizers having an indoline moiety (Fac. Eng., Gifu Univ.) ○NISHIWAKI, Daichi; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MANSEKI, Kazuhiro; MATSUI, Masaki

Chair: OYAMA, Yousuke (11 : 00~11 : 50)

* 10:50-11:00: interval for laptop PC connection.(2A8-13, 2A8-14, 2A8-16)

- 2A8-13** Liquid cyanine dyes (Fac. Eng., Gifu Univ.) ○YAMAMOTO, Takaya; MATSUI, Masaki

electronic materials

- 2A8-14** Regulation of Properties of Conjugated Polymers Based on POSS Fillers (Grad. Sch. Eng., Kyoto Univ.) ○UEDA, Kazunari; TANAKA, Kazuo; CHUJO, Yoshiki

- 2A8-16** *O*-Acetylated Sugar Substituted Fullerenes for Solution-Processed Organic Field-Effect Transistors (Fac. Eng., Sojo Univ.; Phoenix; AIST RCPVT) ○UEMURA, Yu; YOSHITAKE, Masayoshi; YAGAMI, Akifumi; MIZUKI, Keiji; NISHIHARA, Yoshihiko; CHIKAMATSU, Masayuki; HATTA, Taizo

liquid crystals • soft materials

Chair: TANAKA, Kazuo (12 : 00~12 : 50)

* 11:50-12:00: interval for laptop PC connection.(2A8-19, 2A8-21, 2A8-22, 2A8-23)

- 2A8-19** Liquid crystalline orientation and alignment control from the air interface in cyanobiphenyl polymer film (Grad. Sch. Eng., Nagoya Univ.) ○TANAKA, Daisuke; NAGASHIMA, Yuki; HARA, Mitsuo; NAGANO, Shusaku; SEKI, Takahiro

- 2A8-21** Photocontrol of surface wrinkle patterns with liquid crystal azobenzene polymer films (Grad. Sch. Eng., Nagoya Univ.) ○TAKESHIMA, Takahiro; HARA, Mitsuo; NAGANO, Syusaku; SEKI, Takahiro

- 2A8-22** Measurement Strain in Outer and Inner Surfaces of Bending Silicone Films (Chem. Res. Lab., Tokyo Tech) ○KOIKE, Yasunori; AKAMATSU, Norihisa; HUIKAWA, Shigenori; SHISHIDO, Atsushi

- 2A8-23** Variable elasticity and variable electric resistance for Magnetic Elastomers (Fac. Eng., Niigata Univ.) KANAUCHI, Syunta; KAWAI, Mika; ○MITSUMATA, Tetsu

devices

Chair: MITSUMATA, Tetsu (13 : 00~13 : 40)

* 12:50-13:00: interval for laptop PC connection.(2A8-25, 2A8-26, 2A8-27, 2A8-28)

- 2A8-25** Fabrication of structurally colored materials by mixing silica particles or gel particles with polyelectrolyte (Grad. Sch. Eng., Nagoya Univ.) ○SUZUKI, Motoki; IWATA, Masanori; TESHIMA, Midori; TAKEOKA, Yukikazu; SEKI, Takahiro

- 2A8-26** Correlation between Device Structures and Exciplex Formation of Light-Emitting Electrochemical Cells based on Polyfluorene and Amine Derivatives (Sch. Advanced Sci. Eng., Waseda Univ.) ○SUGA, Kotaro; TAKEUCHI, Hironori; NISHIDE, Hiroyuki; NISHIKITANI, Yoshinori; UCHIDA, Soichi; NISHIMURA, Suzushi

- 2A8-27** Solvent effects on the bleaching properties of silver deposition-based electrochromic device (Fac. Eng., Chiba Univ.) ○HONG, Jineui; KIMURA, Ryotaro; Tsuboi, Ayako; NAKAMURA, Kazuki; KOBAYASHI, Norihisa

- 2A8-28** Analysis of stability of colored state in organic electrochromic materials by rotating ring-disk electrode (RRDE) method (Fac. Eng., Chiba Univ.) ○YUKIKAWA, Masahiro; URA, Naoki; NAKAMURA, Kazuki; KOBAYASHI, Norihisa

Saturday, March 28, AM

secondary cell materials

Chair: TSUMURA, Tomoki (9 : 20 ~10 : 10)

* 9:10-9:20: interval for laptop PC connection.(3A8-03, 3A8-04, 3A8-05, 3A8-06)

- 3A8-03** Deuterated compounds for lithium ion battery electrolytes (CCS, AIST; Taiyo Nippon Sanso Corp. Chemical Technology Dept.; Murata Manufacturing Co., Ltd. LIB Business Develop Dept.; Honda R&D Co.,Ltd. Technology Research Dev.; NRI, AIST) ○MIYAZAWA, Akira; KAWANISHI, Yuji; SUGIYAMA, Yoko; TOKUOKA, Shinya; SATO, Masaharu; MARUYAMA, Norihiko; SUKIGARA, Toru; MOKUDAI, Hidehisa; SHIMODAIRA, Haruki

- 3A8-04** Deuteration effect on positive electrode materials for organic secondary battery (Taiyo Nippon Sanso Chemical Technology Dept.; CCS, AIST; Murata Manufacturing LIB Business Development Dept; Honda R&D Technology Research Div.; NRI, AIST) ○SUGIYAMA, Yoko; SHIMODAIRA, Haruki; TOKUOKA, Shinya; MIYAZAWA, Akira; KAWANISHI, Yuji; SATO, Masaharu; MARUYAMA, Norihiko; SUKIGARA, Toru; MOKUDAI, Hidehisa

- 3A8-05** Solid state ionic conductivity of the mixture of organic ionic plastic crystals and magnesium salts (Fac. Sci., Shizuoka Univ.; Grad. Sch. Sci., Shizuoka Univ.) ○OBORA, Takahito; MORIYA, Makoto

- 3A8-06** Solid-state NMR characterization of anode in sodium ion battery (TRC; AIST) ○MIYOSHI, Riko; SAKIYAMA, Yoko; AOKI, Yasuhiro; NAKAGAWA, Takeshi; KURATANI, Kentaro; KATAOKA, Riki; TABUCHI, Mitsuharu

Chair: MORIYA, Makoto (10 : 20~11 : 10)

* 10:10-10:20: interval for laptop PC connection.(3A8-09, 3A8-10, 3A8-11,

3A8-12, 3A8-13)

- 3A8-09** Synthesis of high crystalline porous carbon via iron citrate and its electrochemical lithium intercalation (Grad. Sch. Eng., Oita Univ.)
 ○OGUSHI, Kotaro; KINUMOTO, Taro; TSUMURA, Tomoki; TOYODA, Masahiro
- 3A8-10** The electrochemical properties of three-dimensional periodically ordered nanoheterostructures from self-assembled block copolymer composites (Toyota Central R&D Labs., Inc.) ○WAKAYAMA, Hiroaki; YONEKURA, Hirota; KAWAI, Yasuaki

fuel cell materials

- 3A8-11** the correlation between the proton conductivity and the structure due to the lyotropic liquid crystal in alkyl sulfonated polyimides (Sch. Eng., Nagoya Univ.) ○GOTO, Ryosuke; HARA, Mitsuo; NAGAO, Yuki; NAGANO, Shusaku
- 3A8-12** Bimetallic Clusters as Anode Catalysts for Fuel Cells (Chem. Res. Lab., Tokyo Tech) ○SUZUKI, Daisuke; IMAOKA, Takane; CHUN, Wang Jae; YAMAMOTO, Kimihisa
- 3A8-13** Functionalization of electrocatalyst for anion-type polymer electrolyte fuel cell (Grad. Sch. Eng., Kyushu Univ.) ○FUJIGAYA, Tsuyohiko; SAITO, Chiori; NAKASHIMA, Naotoshi

Chair: NAGANO, Shusaku (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(3A8-15, 3A8-16, 3A8-18, 3A8-19)
- 3A8-15** One-pot synthesis of Core-Shell nanoparticle on polymer-Wrapped carbon (Grad. Sch. Eng., Kyushu Univ.) FUJIGAYA, Tsuyohiko; ○KIM, Chaerin; NAKASHIMA, Naotoshi
- 3A8-16*** Platinum-modified covalent triazine frameworks catalyzes methanol-tolerant oxygen reduction reaction (Grad. Sch. Eng., The Univ. of Tokyo; PRESTO, JST) ○KAMIYA, Kazuhide; KAMAI, Ryo; HASHIMOTO, Kazuhito; NAKANISHI, Shuji
- 3A8-18** Fabrication of Lactose Oxidase-modified Screen-printed Porous Carbon Electrode and Its Application for Paper-based Urinary Sugar Biofuel Cell (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○NOHARA, Saki; KATOU, Seiya; HOSHI, Yoshinao; SHITANDA, Isao; ITAGAKI, Masayuki
- 3A8-19** Fabrication of Paper-based Flow-type Electrochemical Sensor (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○KISHIRO, Kanako; HOSHI, Yoshinao; SHITANDA, Isao; ITAGAKI, Masayuki

Room B1
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Polymer

Thursday, March 26, AM

Chair: UEMURA, Takashi (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1B1-01, 1B1-02, 1B1-03, 1B1-05, 1B1-06)
- 1B1-01** Preparation of tactic polymer and block copolymer by radical polymerization of lactic acid-based monomers and their polymer properties (The Univ. of Tokushima) ○TANAKA, Hitoshi; KIBAYASHI, Tatsuya; KASHIHARA, Shoiti; NIWA, Miki
- 1B1-02** Steric effect of substituents on decomposition rate and product of azo initiators with functional substituents (The Univ. of Tokushima) ○NIWA, Miki; TANAKA, Hitoshi; SHIMAMURA, Nobutaka
- 1B1-03*** Precise Structure Control of Poly(dialkyl fumarate)s Using Chain-Transfer Types of Living Radical Polymerizations (Grad. Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Osaka City Univ.) ○MATSUMOTO, Akikazu; MAEO, Naoki; SATO, Eriko
- 1B1-05** Synthesis of fluorinated polymers via photoinduced reaction of diiodoperfluoroalkane and diallyl ether (Grad. Sch. Human. Sci., Ochanomizu Univ.) ○SASAHARA, Kana; YAJIMA, Tomoko
- 1B1-06** Preparation of ring polymers via ring expansion NMP (Sch. Sci., Nagoya Univ.) ○MAKINO, Takaaki; MATSUSHITA, Michio; AWAGA, Kunio
- Chair: KOHSAKA, Yasuhiro (10 : 10~11 : 00)
- * 10:00-10:10: interval for laptop PC connection.(1B1-08, 1B1-09, 1B1-10, 1B1-11)
- 1B1-08** Controlled radical copolymerizations using porous metal complexes as templates (Grad. Sch. Eng., Kyoto Univ.) ○MOCHIZUKI, Shuto; UEMURA, Takashi; KITAGAWA, Susumu
- 1B1-09** Polymer Design for Sustainable Polymers Consisting of Thermo-reversible Bondings (Toray Industries, Inc.) ○YAMAMOTO, Daisuke; YAMAUCHI, Koji; KOBAYASHI, Kazuhiko
- 1B1-10** Synthesis of Well Defined Polymers in Solid States by Radiation Living Graft Polymerization (QBSC, JAEA) ○HAMADA, Takashi; SAWADA, Shin-ichi; HASEGAWA, Shin; MAEKAWA, Yasunari

- 1B1-11*** Fast radical polymerization by flash heating to ultra-high temperature under pressure (JAMSTEC) ○KINOSHITA, Keigo; DEGUCHI, Shigeru

Chair: UCHIDA, Satoshi (11 : 10~12 : 00)

- * 11:00-11:10: interval for laptop PC connection.(1B1-14, 1B1-16, 1B1-18)
- 1B1-14*** Atropos polymerization: Spontaneous control of the macromolecular structures by programed termination in living polymerization (Grad. Sch. Eng. Sci., Osaka Univ.) ○KOHSAKA, Yasuhiro; ISHIHARA, Shoya; KITAYAMA, Tatsuki
- 1B1-16*** Synthesis and characterization of controlled stereo regular polymers containing of nitroxide radical unit prepared by anionic polymerization (IMCE, Kyushu Univ.) ○OHISHI, Tomoyuki; HIRAI, Tomoyasu; MATSUNO, Ryosuke; TAKAHARA, Atsushi
- 1B1-18** Study on initiation reaction of polymerization of *N*-isopropylacrylamide with zincate complex (The Univ. of Tokushima Dept. Chem. Sci. & Tech.) ○TERAMORI, Takuya; OSHIMURA, Miyuki; HIRANO, Tomohiro; UTE, Koichi

Thursday, March 26, PM

Chair: SHIONO, Takeshi (13 : 20~14 : 20)

- * 13:10-13:20: interval for laptop PC connection.(1B1-27, 1B1-30, 1B1-31, 1B1-32)
- 1B1-27** Young Scholar Lectures of CSJ Polymer Synthesis Based on Innovative Retrosynthesis (Grad. Sch. Eng., The Univ. of Tokyo) ○ITO, Shingo
- 1B1-30** Copolymerization of Aryne Equivalents with Ethylene (Grad. Sch. Eng., The Univ. of Tokyo) ○WANG, Wenhan; ITO, Shingo; NOZAKI, Kyoko
- 1B1-31#** Rare-Earth-Catalyzed Alternating Copolymerization of 1,4-Dimethoxybenzene and Unconjugated Dienes via C-H Bond Activation (RIKEN CSRS) ○SHI, Xiaochao; NISHIURA, Masayoshi; HOU, Zhaomin
- 1B1-32** Synthesis and photo-responsive structural change of poly(*m*-phenylenevinylene) derivatives aimed at photo-responsive release of included guest molecules (Grad. Sch. Mat. Sci., NAIST) ○OMURA, Satoshi; TERADA, Kayo; ANDO, Tsuyoshi; KOBAYASHI, Mime; TANIHARA, Masao

Chair: ITO, Shingo (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(1B1-34, 1B1-36, 1B1-37, 1B1-38)
- 1B1-34**** Effect of magnesium/aluminum cocatalysts in the polymerization of isoprene using neodymium catalyst (Fac. Eng., Hiroshima Univ.) ○TANAKA, Ryo; YUUYA, Kaede; SATO, Hiroki; EBERHARDT, Peter; NAKAYAMA, Yuushou; SHIONO, Takeshi
- 1B1-36** Ring-opening Polymerization of beta-Thiolactone derived from Cysteine (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○MAKIMURA, Kazumasa; MATSUOKA, Shin-ichi; SUZUKI, Masato
- 1B1-37** Reactant Complex Structure in Initiation Reaction of Ring-Opening Polymerization of Lactone Catalyzed by Cyclodextrin: Molecular Dynamics Approach (Grad. Sch. Info. Sci., Nagoya Univ.; CREST, JST) ○ITO, Shoko; TAKAYANAGI, Masayoshi; NAGAOKA, Masataka
- 1B1-38**** Effect of Component Mobility of Macromolecular [2]Rotaxanes on the Crystallization (Grad. Sch. Sci., Eng., Tokyo Tech) ○CHEN, Zhen; AOKI, Daisuke; UCHIDA, Satoshi; TAKATA, Toshikazu

Chair: TOMITA, Ikuyoshi (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(1B1-41, 1B1-42, 1B1-44, 1B1-46)
- 1B1-41** Physical property of rotaxane cross-linked polymer synthesized using macromolecular [2]rotaxane cross-linker. (Grad. Sch. Sci., Eng., Tokyo Tech) ○SAWADA, Jun; AOKI, Daisuke; TAKATA, Toshikazu
- 1B1-42**** Polymerization of Heteroofluorene Containing Four-coordinated Gallium Atoms (Grad. Sch. Eng., Kyoto Univ.) ○MATSUMOTO, Takuya; TANAKA, Kazuo; CHUJO, Yoshiki
- 1B1-44**** Synthesis and Characterization of Boron Dipyrromethenes Bearing Aryl Substituents at the Boron Center (Grad. Sch. Eng., Kyoto Univ.) ○YAMANE, Honami; TANAKA, Kazuo; CHUJO, Yoshiki
- 1B1-46** Synthesis and Polymerization of Boron Dipyrromethenes Bearing Electron-Withdrawing and/or -Donating Aryl Substituents at the Boron Center (Grad. Sch. Eng., Kyoto Univ.) ○ITO, Shunichiro; YAMANE, Honami; TANAKA, Kazuo; CHUJO, Yoshiki

Chair: TANAKA, Kazuo (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(1B1-48, 1B1-50, 1B1-51)
- 1B1-48*** Development of Precision Catalysts Supported on Polymer Particles by Allylnickel-catalyzed Living Coordination Dispersion Polymerization of Allene Derivatives. (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○YAMAUCHI, Akira; OGUCHI, Yoshiyuki; WAKIYA, Takeshi; YAMAUCHI, Hiroshi; NISHIYAMA, Hiroki; INAGI, Shinsuke; TOMITA, Ikuyoshi
- 1B1-50** Creation of Luminescent Polymer Particles by Living Coordination Dispersion Polymerization of Allene Derivatives (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○DAITANI, Misato; OGUCHI, Yoshiyuki; WAKIYA, Takeshi; YAMAUCHI, Hiroshi; NISHIYAMA, Hiroki; INAGI, Shinsuke; TOMITA, Ikuyoshi

1B1-51* Molecular Design of Grafted π -Conjugated Polymers with Well-Defined Poly(vinyl ether) Pendants (KIT) ○MOTOYANAGI, Jin; ISHIKAWA, Taketo; KAWAMURA, Shinya; MINODA, Masahiko

Chair: MOTOYANAGI, Jin (17 : 50~18 : 40)

- * 17:40-17:50: interval for laptop PC connection.(1B1-54, 1B1-56, 1B1-58)
1B1-54** Synthesis and structure control of polyphenylacetylene possessing a thermo-responsive rotaxane switch in the side chain (Grad. Sch. Sci., Eng., Tokyo Tech) ○ZHU, Nan; NAKAZONO, Kazuko; TAKATA, Toshikazu
1B1-56** Synthesis and property of block copolymers linked by rotaxane structure (Grad. Sch. Sci., Eng., Tokyo Tech) ○AOKI, Daisuke; UCHIDA, Satoshi; TAKATA, Toshikazu
1B1-58 Synthesis and characterization of a star polymer with varying number of the arm chains (Grad. Sch. Sci., Eng., Tokyo Tech) ○HIROSE, Takuma; AOKI, Daisuke; TAKATA, Toshikazu

Asian International Symposium -Polymer- Friday, March 27, PM

Chair: Yokozawa, Tsutomu (13 : 10~14 : 00)

- 2B1-26#** Keynote Lecture Polymer Topology Control via Manipulations of Atom Transfer Radical Reactions (ATRRs) (National Chung Hsing Univ.) Huang, Chih-Feng (13:10~13:40)
2B1-29# Invited Lecture Synthesis of Well-defined Poly(substituted methylene)s by Pd-mediated Controlled Polymerization of Diazoacetates (Ehime Univ.) Shimomoto, Hiroaki (13:40~14:00)

Chair: Ihara, Eiji (14 : 00~14 : 40)

- 2B1-31#** Invited Lecture Poly(quinoxaline-2,3-diyl)s as an Efficient Amplifier of Solvent Effect Leading to Switch of Main Chain Helical Chirality (Kyoto Univ.) Nagata, Yuuya (14:00~14:20)
2B1-33# Invited Lecture Hierarchical chiral information transfer in helical peptide molecules (Nagoya Univ.) Ousaka, Naoki (14:20~14:40)

Chair: Sanda, Fumio (14 : 40~15 : 20)

- 2B1-35#** Invited Lecture Stretched and Contracted Helix of Substituted Polyacetylenes Prepared with a Rh Complex Catalyst (Muran Institute of Technology) Mawatari, Yasuteru (14:40~15:00)
2B1-37# Invited Lecture Structural Control and Application of C₂-Chiral Spirobifluorene-derived Exact Helices (Tokyo Institute of Technology) Sogawa, Hiromitsu (15:00~15:20)

Chair: Hayakawa, Teruaki (15 : 30~16 : 20)

- 2B1-40#** Keynote Lecture Growth of Organic Semiconductors by Eutectic Reactions (Hanyang Univ.) Kang, Youngjong (15:30~16:00)
2B1-43# Invited Lecture Nanoarchitectures of mesoporous metal oxides using a block-copolymer template for efficient solar driven and electrocatalytic water splitting (Niigata Univ.) Chandra, Debraj (16:00~16:20)

Chair: Kamigaito, Masami (16 : 20~16 : 50)

- 2B1-45#** Keynote Lecture Synthesis and Characterization of Structure Controlled Polysilsequioxanes (Korea Institute of Science and Technology) Baek, Kyung-Youl (16:20~16:50)
 Chair: Miyata, Takashi (16 : 50~17 : 30)
2B1-48# Invited Lecture A Novel Design of Polymers for Bioapplications Based on Combination of Precision Synthesis with Segmental Dynamics (Kyushu Univ.) Oda, Yukari (16:50~17:10)
2B1-50# Invited Lecture Smart Polymer Technologies for Cancer Therapy (NIMS) Ebara, Mitsuhiro (17:10~17:30)

Polymer

Saturday, March 28, AM

Chair: OGOSHI, Tomoki (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3B1-01, 3B1-03, 3B1-04, 3B1-05, 3B1-06)
3B1-01** Synthesis and Topology Transformation of Macromolecular [1] Rotaxane (Grad. Sch. Sci., Eng., Tokyo Tech) ○OGAWA, Takahiro; NAKAZONO, Kazuko; TAKATA, Toshikazu
3B1-03# Linear-cyclic topology change of block copolymers utilizing the dynamic nature of poly[1]rotaxane (Grad. Sch. Sci., Eng., Tokyo Tech) ○STEPHANIE, Valentina; OGAWA, Takahiro; NAKAZONO, Kazuko; TAKATA, Toshikazu
3B1-04 Effective Non-catalytic Linking of Polymers using Reaction of Polymer Nitrile N-Oxides. (Grad. Sch. Sci., Eng., Tokyo Tech) ○TSUTSUBA, Toyokazu; SOGAWA, Hiromitsu; TAKATA, Toshikazu
3B1-05 Catalyst-free Click Synthesis of Polymers Exploiting Multi-functional Nitrile N-Oxides (Grad. Sch. Sci., Eng., Tokyo Tech; Daikin Industries, Ltd.) ○MONJIYAMA, Shunsuke; SOGAWA, Hiromitsu; NAKAZONO, Kazuko; TAKATA, Toshikazu; KANBARA, Tadashi; NOGUUCHI, Tsuyoshi
3B1-06 Synthesis of Surface-functionalized Well-defined Polymer Particles and Their Application to Creation of Hollow Silica Particles (Interdisciplinary

Grad. Sch. Sci. and Eng., Tokyo Tech) ○FURUSE, Yuya; YAMAUCHI, Akira; OGUCHI, Yoshiyuki; YAMAUCHI, Hiroshi; WAKIYA, Takeshi; NISHIYAMA, Hiroki; INAGI, Shinsuke; TOMITA, Ikuoyoshi

Chair: INAGI, Shinsuke (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3B1-08, 3B1-09, 3B1-10, 3B1-11, 3B1-12, 3B1-13)
3B1-08 Preparation of Supramolecular Gels by Vine-twining Polymerization Using Poly(γ -glutamic acid-*graft*- ϵ -caprolactone) (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○KADOKAWA, Jun-ichi; HATANAKA, Daisuke; YAMAMOTO, Kazuya
3B1-09 Preparation of Amylose-poly(D-alanine) Inclusion Complex by Vine-twining Polymerization (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○GOTANDA, Ryuya; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
3B1-10 Synthesis of Tubular π -Conjugated Polymers Constructed from Pillar [5]arene in the Main-Chain (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; PRESTO, JST) ○SHIMADA, Yasuo; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
3B1-11 Synthesis of Supramolecular Graft Copolymer via Molecular Recognition of Coordination Capsule (Grad. Sch. Sci., Hiroshima Univ.) ○TSUNODA, Yuta; HAINO, Takeharu
3B1-12 Formation Mechanism of High-purity Poly(phenylene sulfide) by Oxidative Polymerization of Disulfide (Sch. Advanced Sci. Eng., Waseda Univ.) ○AOKI, Minato; SHINOMIYA, Keisuke; KIYOKAWA, Daichi; OYAIZU, Kenichi; NISHIDE, Hiroyuki
3B1-13 Synthesis and Characterization of Poly(arylene thioether)s by Oxidative Polymerization under Monomer Melt Conditions (Sch. Advanced Sci. Eng., Waseda Univ.) ○TAKASU, Naoto; TANI, Shota; NAGAMATSU, Kentaro; OYAIZU, Kenichi; NISHIDE, Hiroyuki

Chair: OYAIZU, Kenichi (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3B1-15, 3B1-17, 3B1-18, 3B1-20)
3B1-15* Chloride-promoted direct arylation polycondensation (Dept. Appl. Chem., Nat. Def. Acad.) ○HAYASHI, Shotaro; KOIZUMI, Toshio
3B1-17 Direct arylation of 5,6-difluorobenzoalcoholendiazole (Dept. Appl. Chem., Nat. Def. Acad.) ○HAYASHI, Shotaro; TOGAWA, Yuki; KOIZUMI, Toshio
3B1-18* Synthesis of Conjugated Polymers by Rhodium-Catalyzed Cross-Coupling Reaction between Phenylenebisacetamides and Internal Alkynes through C-H Bond Cleavage (Grad. Sch. Sci. Eng., Chuo Univ.) ○TOKORO, Yuichiro; SATO, Hiroshi; FUKUZAWA, Shin-ichi
3B1-20 Synthesis of fluorinated π -conjugated polymers via direct arylation in nonpolar solvents (Dept. Appl. Chem., Nat. Def. Acad.) ○TOGAWA, Yuki; KOJIMA, Yoshihisa; HAYASHI, Syotaro; KOIZUMI, Toshio

Saturday, March 28, PM

Chair: KOIZUMI, Toshio (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3B1-28, 3B1-29, 3B1-30, 3B1-31, 3B1-32, 3B1-33)
3B1-28 Synthesis of Polymers Utilizing Organic Element-Blocks Having Decamethylene Chain or Triethyleneglycol Chain. (Grad. Sch. Eng., Tokyo City Univ.) ○MOTOKI, Shunsaku; IWAMURA, Takeru
3B1-29 Synthesis and Applications of Novel Organometallic Polymers Containing Palladacycle Moieties in Main Chain (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○SUGIHARA, Masato; NISHIYAMA, Hiroki; INAGI, Shinsuke; TOMITA, Ikuoyoshi
3B1-30 Synthesis of metal polymer complex with dithiolene ligands as side-chain (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○SATO, Hironobu; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro
3B1-31 Copolymerization of 3-alkylthiophene and Benzocrown Ether Derivatives by oxidative polymerization method (Sch. Env. Sci. Eng., KUT) ○OSHIMA, Kazumasa; SUGIMOTO, Ryuichi
3B1-32 Direct copolymerization of 3-alkylthiophene and triphenylamine derivatives by oxidative polymerization method (Grad Sch. Eng., KUT) ○NAKASHITA, Takuya; SUGIMOTO, Ryuichi
3B1-33 Synthesis of Kinetically Stabilized Polymer Nitrile N-Oxides from Nitroalkane Precursors (Grad. Sch. Sci., Eng., Tokyo Tech) ○TSUTSUBA, Toyokazu; SOGAWA, Hiromitsu; CHEAWCHAN, Sumittra; TAKATA, Toshikazu

Chair: OYAMA, Toshiyuki (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3B1-35, 3B1-37, 3B1-39, 3B1-40)
3B1-35* Aryne polymerization enabling straightforward synthesis of elusive poly(*ortho*-arylene)s (Grad. Sch. Pharm., The Univ. of Tokyo; RIKEN Element Research Laboratory) ○MIKAMI, Koichiro; MIZUKOSHI, Yoshihide; UCHIYAMA, Masanobu
3B1-37** Emission properties of single component free-standing transparent films based on carbazole-terminated polyhedral octasilicate-core dendrimers. (KIT) ○IRIE, Yasuyuki; NAKA, Kensuke
3B1-39 Effect of Coordination Site of Poly Allylurethane on the Catalytic Intramolecular Hydroamination (Grad. Sch. Sci., Eng., Tokyo Tech) ○MIZUNO, Shunya; OGAWA, Masahiro; AOKI, Daisuke; SOGAWA,

Hiromitsu; TAKATA, Toshikazu

- 3B1-40** Efficient transformation of polyallylurethane with the Pd-containing macrocycle catalyst and examination of physical properties of formed polymer (Grad. Sch. Sci., Eng., Tokyo Tech) ○IWASAKI, Hikaru; NAGASHIMA, Masaki; OGAWA, Masahiro; AOKI, Daisuke; SOGAWA, Hiromitsu; TAKATA, Toshikazu

Chair: GUNJI, Takahiro (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(3B1-42, 3B1-43, 3B1-44, 3B1-45, 3B1-47)

- 3B1-42** Unidirectional movement of a macrocycle catalyst in the hydroamination of polyallylurethane (Grad. Sch. Sci., Eng., Tokyo Tech) ○NAGASHIMA, Masaki; AOKI, Daisuke; SOGAWA, Hiromitsu; TAKATA, Toshikazu

- 3B1-43** Synthesis of a water-soluble polypeptide containing thioester bonds on its side chains and dynamic exchange reaction using the thioesters (Grad. Sch. Eng., Yokohama Natl. Univ.) ○URAI, Satoshi; OYAMA, Toshiyuki

- 3B1-44[#]** Synthesis and oxidative degradation of polystyrene-poly(diacylhydrazine) block copolymers (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○PARVEZ, Md. Masud; KIHARA, Nobuhiro

- 3B1-45*** Thermal Chemiluminescence from Gamma-Irradiated Polytetrafluoroethylene and Its Emission Mechanism (2) Kinetic Analysis and Bond Dissociation Energy of Fluoroperoxide (Tokyo Univ. of Agri. and Technol. Graduate School of BASE; Daikin Industries, Ltd.; Japan Applied Technology Inc.; Koga Isotope Ltd.) YAMADA, Emi; NOGUCHI, Tsuyoshi; AKAI, Nobuyuki; ISHII, Hiroshi; SATOH, Chikahiro; HIRONIWA, Takayuki; ○NAKATA, Munetaka

- 3B1-47** Polymer Reactions of π -Conjugated Polymers Having Perfluoroarylene Moiety in the Main Chain (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○ISHIHARA, Takuya; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi; INAGI, Shinsuke

Chair: KIHARA, Nobuhiro (17 : 00~17 : 50)

* 16:50-17:00: interval for laptop PC connection.(3B1-49, 3B1-51, 3B1-53)

- 3B1-49*** Synthesis of Various π -Conjugated Polymers via Thiophene-1-oxide-containing Polymers (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○NISHIYAMA, Hiroki; INAGI, Shinsuke; TOMITA, Ikuyoshi

- 3B1-51*** Synthesis of π -Conjugated Polymers Containing Arsole Units in the Main Chain by Reaction of Organometallic Polymers Having Titanacyclopentadiene Units with Cyclo-origoarsine (KIT; Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○MATSUMURA, Yoshimasa; ISHIDOSHIRO, Makoto; IRIE, Yasuyuki; IMOTO, Hiroaki; NAKA, Kensuke; INAGI, Shinsuke; TOMITA, Ikuyoshi

- 3B1-53** Synthesis and Characterization of Novel π -Conjugated Polymers Containing Elements-blocks via the Te-Li Exchange Reaction of Tellurophene-containing Polymers (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○KOMATSUZAKI, Yusuke; NISHIYAMA, Hiroki; INAGI, Shinsuke; AKITA, Munetaka; TOMITA, Ikuyoshi

Chair: HAYAKAWA, Teruaki (18 : 00~18 : 40)

* 17:50-18:00: interval for laptop PC connection.(3B1-55, 3B1-57)

- 3B1-55*** A Study on the lattice structures arranged by micro-phase separated spherical structures in block copolymer and homopolymer blends (KEK) ○TAKAGI, Hideaki; YAMAMOTO, Katsuhiko

- 3B1-57*** High Performance Thermoset Plastics through "NANOALLOY" Technology and Analysis of Phase Separation (Toray Industries, Inc.) ○NOMURA, Keiichiro; KOBAYASHI, Sadayuki

Sunday, March 29, AM

Chair: KAMBE, Tetsuya (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4B1-01, 4B1-03, 4B1-04, 4B1-06)

- 4B1-01*** Nano structures of water-soluble polymers made by freeze-drying method (Fukuoka Ind. Tech. Ctr.) ○KIMURA, Taro; UCHIYAMA, Naoyuki; SAITA, Shingo

- 4B1-03** Supramolecular polymer of metal accumulating dendrimer using a bent-shaped cross-linking molecules (Chem. Res. Lab., Tokyo Tech) ○MENDORI, Shin; ALBRECHT, Ken; HIRABAYASHI, Yuki; YAMAMOTO, Kimihisa

- 4B1-04*** Synthesis of Chain Length Controlled Oligofluorenes and its Beta Phase Forming Properties: Leading System for Selective Sorting of Semi-conducting Single-Walled Carbon Nanotubes (Grad. Sch. Eng., Kyushu Univ.) ○SHIRAKI, Tomohiro; SHINDOME, Shoichiro; TOSHIMITSU, Fumiyouki; FUJIGAYA, Tsuyohiko; NAKASHIMA, Naotoshi

- 4B1-06** Effect of Water on Thermophysical Properties of Ionic Aggregates in Triblock Copolymeric Ionomers (Grad. Sch. Sci. Tech., Nihon Univ.) ○YAMASHITA, Hiroshi; HIRAMATSU, Tatsuro; WATANABE, Honami; SASAKI, Daisuke; HOSHI, Toru; HAGIWARA, Toshiki; SAWAGUCHI, Takashi

Chair: KIMURA, Taro (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4B1-08, 4B1-09, 4B1-10, 4B1-11, 4B1-12, 4B1-13)

- 4B1-08** Structure and Function of Transparent Crystalline Polymer Nano-

composites with Uniform Dispersion of Nanocarbon (Fac. Eng., Saitama Univ.; Grad. Sch. Sci., Eng., Tokyo Tech; Grad. Sch. Sci., Eng., Saitama Univ.) ○KASAHARA, Yusuke; MUHAMMAD ABDULLAH AL, Mamun; AKASAKA, Shuichi; FUJIMORI, Atsuhiko

- 4B1-09** Synthesis of the 2-dimensional sheet with metal accumulation ability by using phenylazomethine dendrimer. (Chem. Res. Lab., Tokyo Tech) ○NAKADO, Kazuki; ALBRECHT, Ken; HIRABAYASHI, Yuuki; YAMAMOTO, Kimihisa

- 4B1-10** Polymerization of pyrrole in lyotropic liquid crystals (Sch. Sci. Eng., Univ. of Tsukuba) ○EGUCHI, Naoto; GOTO, Hiromasa

- 4B1-11** Controlled Assembling of Typical Elements in Dendrimers (Chem. Res. Lab., Tokyo Tech) ○KAMBE, Tetsuya; IMAOKA, Takane; YAMAMOTO, Kimihisa

- 4B1-12** Control of phase structures in amphiphilic liquid crystalline diblock copolymer thin films. (KIT) ○KOIZUMI, Takuya; ASAOKA, Sadasuki; AOKI, Chiaki; NOGUCHI, Mikiko; MAEDA, Haruhiko

- 4B1-13** Miscible blends of immiscible polymers using porous metal complexes (Sch. Eng., Kyoto Univ.) ○SASAKI, Yotaro; KASEDA, Tetsuya; UEMURA, Takashi; KITAGAWA, Susumu

Chair: SHIRAKI, Tomohiro (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4B1-15, 4B1-17, 4B1-18, 4B1-19, 4B1-20)

- 4B1-15*** Molecular study on the mechanisms of interfacial adhesion between poly(p-phenylene sulfide) and epoxy resin (IMCE, Kyushu Univ.) ○SEMOTO, Takayuki; YAMAUCHI, Takeshi; YOSHIZAWA, Kazunari

- 4B1-17** Chiral Polymer Blending with Electrochemical Polymerization in Liquid Crystal (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○JO, Tomoaki; GOTO, Hiromasa

- 4B1-18** Improvement of hydrophilic and adhesive properties of poly(tetrafluoroethylene) plates through plasma pretreatment and subsequent photo-grafting (Coll. Industrial Tech., Nihon Univ.) ○TACHI, Marie; KIMURA, Yuji; YAMADA, Kazunori

- 4B1-19** Evaluation of the interface structure and proton transport properties of Nafion film on different substrates (Sch. Mat. Sci., JAIST) ○ONO, Yutaro; NAGAO, Yuki

- 4B1-20** Proton transport property of sulfonated polyimide having organized structure (Sch. Mat. Sci., JAIST) ○OHNO, Kazuki; GOTO, Ryousuke; HARA, Mitsuo; NAGANO, Shusaku; NAGAO, Yuki

Room B2

Bldg.14 1452

Polymer

Thursday, March 26, AM

Chair: NAGATA, Yuuya (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1B2-01, 1B2-03, 1B2-04, 1B2-05, 1B2-06)

- 1B2-01*** Synthesis and Biodegradability of Poly(α, ω -hydroxyalkanoate) (Grad. Sch. Sci. Tech., Gunma Univ.) ○TACHIBANA, Yuuya; INAGAKI, Kana; OKANIWA, Yusuke; ARAI, Kana; KASUYA, Ken-ichi

- 1B2-03** Synthesis and Biodegradability of Aliphatic Polyester from α, ω -dicarboxylic acid and 1,4-butanediol (Grad. Sch. Sci. Tech., Gunma Univ.) ○SUDA, Shota; BABA, Takuro; TACHIBANA, Yuuya; KASUYA, Ken-ichi

- 1B2-04[#]** Organic Vapor Sensing with a Redox Active Polymer Containing a Riboflavin-Dimer Unit as the Main-Chain (Grad. Sch. Eng., Nagoya Univ.) ○NAKAJIMA, Yoshimi; IWAHANA, Soichiro; IIDA, Hiroki; YASHIMA, Eiji

- 1B2-05[#]** Synthetic study of the polymer as multivalent bioprobe (III) ~ Biological evaluations of the polymeric bioprobes ~ (Grad. Sch. Sci., Eng., Saitama Univ.) ○HAYAMA, Riho; KOYAMA, Tetsuo; HATANNO, Ken; MATSUOKA, Koji

- 1B2-06[#]** Synthesis of the water soluble glyco-conjugate porphyrin polymer (III) ~ Biological evaluations of the porphyrin polymer ~ (Grad. Sch. Sci., Eng., Saitama Univ.) ○ANDO, Mamoru; KOYAMA, Tetsuo; SUZUKI, Miho; ISHIMARU, Yoshihiro; HATANNO, Ken; MATSUOKA, Koji

Chair: AOKI, Ken'ichi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1B2-08, 1B2-09, 1B2-10, 1B2-12, 1B2-13)

- 1B2-08[#]** Chirality-switchable Circularly Polarized Luminescent Material Based on the Solvent-dependent Helix Inversion of Poly(quinoxaline-2,3-diyl)s (Grad. Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; ○NISHIKAWA, Tsuyoshi; SUGINOME, Michinori

- 1B2-09[#]** Thin Films of Polyquinoxaline Blends Exhibiting Selective Reflection in the Visible Light Region: Chirality and On-Off Switches of Selective Reflection (Grad. Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; ○ONO, Makoto; SUGINOME, Michinori

- 1B2-10*** Controlling Photomobile Properties of Crosslinked Azobenzene

- Liquid-Crystalline Polymers by the Formation of Interpenetrating Structure (Research and Development Initiative, Chuo Univ.; Grad. Sch. Sci. Eng., Chuo Univ.) ○UBE, Toru; TAKADO, Kiyohide; IKEDA, Tomiki
- 1B2-12** Synthesis and Chlomic Properties of π -Conjugated Polymers with Bis-spirocyclic Structure (Grad. Sch. Eng., Tokyo Denki Univ.) ○YOSHIDA, Michihito; MIYASAKA, Makoto
- 1B2-13** Photoluminescence of Acyclic/Cyclic Germanium-Acetylene Polymers (Grad. Sch. Mat. Sci., NAIST) ○FUJIWARA, Taro; NAGAO, Tomohiko; TANIMOTO, Hiroki; KAKUTA, Takahiro; TANAKA, Kazuo; CHUJO, Yoshiki; KAKIUCHI, Kiyomi

Chair: MIYASAKA, Makoto (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1B2-15, 1B2-16, 1B2-17, 1B2-18, 1B2-19, 1B2-20)
- 1B2-15** Photoresponsive Behavior of Crosslinked Azobenzene Liquid-Crystalline Polymer Films at Cryogenic Conditions (Fac. Sci. Eng., Chuo Univ.; Grad. Sch. Sci. Eng., Chuo Univ.; Research and Development Initiative, Chuo Univ.; CIMoS, IMS) ○HASHIMOTO, Gaku; TAKADO, Kiyohide; UBE, Toru; SUDA, Masayuki; YAMAMOTO, Hiroshi; IKEDA, Tomiki
- 1B2-16** Preparation of Crosslinked Liquid-Crystalline Polymers with Dynamic Covalent Bonds Containing Phenyl Benzoate Groups (Grad. Sch. Sci. Eng., Chuo Univ.; Research and Development Initiative, Chuo Univ.) ○KAWASAKI, Kyohei; UBE, Toru; IKEDA, Tomiki
- 1B2-17** Reversibly electroswitchable photoluminescence using Fe(II)-based metallo-supramolecular polymer (Grad. Sch. Sci. Tech., Keio Univ.; NIMS) ○SUZUKI, Takahiro; SATO, Takashi; ZHANG, Jian; HIGUCHI, Masayoshi; MAKI, Hideyuki
- 1B2-18** Novel even-odd effect of alkylene chain length of diacetylene derivatives with aromatic terminals on photopolymerization rates in gel states. (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○NARAZAKI, Kenta; YAMAMOTO, Tsuyoshi; HORITSUGU, Kousuke; TAMAOKI, Nobuyuki; AOKI, Ken'ichi
- 1B2-19** Improvement of the gelation and photopolymerization abilities of amino acid-based diacetylene derivatives by the adjustments of the chemical structures. (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○KOBAYASHI, Yuko; HORITSUGU, Kosuke; TAMAOKI, Nobuyuki; AOKI, Ken'ichi
- 1B2-20** Specific UV curing behaviors of thiol-ene photopolymers composed of polynorbornene dendrimers (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○IMANISHI, Ryota; YAMADA, Masatsugu; ITHIMURA, Kunihiro; AOKI, Ken'ichi

Thursday, March 26, PM

Chair: TANAKA, Kazuo (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1B2-28, 1B2-31, 1B2-32)
- 1B2-28** Young Scholar Lectures of CSJ Development of Chirality-Switching-Type Materials Based on the Solvent-dependent Screw-sense Inversion of Poly(quininoxaline-2,3-diy)s (Grad. Sch. Eng., Kyoto Univ.) ○NAGATA, Yuuya
- 1B2-31** Control of Nanostructure in Organic Semiconductor Film with Block Copolymer Containing Liquid-Crystalline Oligothiophene (Research and Development Initiative, Chuo Univ.) ○UBE, Toru; KANEKO, Masahiro; TAKAYANAGI, Nana; HAGA, Masa-aki; IKEDA, Tomiki
- 1B2-32** Synthesis and Evaluation of Functions of Polythiophenes with Photocrosslinkable Side Chains (Grad. Sch. Sci. Eng., Chuo Univ.; Research and Development Initiative, Chuo Univ.) ○KOSAKA, Takahito; OKAZAKI, Hiroto; UBE, Toru; HAGA, Masa-aki; IKEDA, Tomiki

Chair: NAGATA, Yuuya (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(1B2-34, 1B2-36, 1B2-38, 1B2-39)
- 1B2-34**[#] Formation and Characterization of Optically-Functionalized POSS Network Polymers Using Conjugated Units (Grad. Sch. Eng., Kyoto Univ.) ○KAKUTA, Takahiro; TANAKA, Kazuo; CHUJO, Yoshiki
- 1B2-36**[#] Development of aggregation-induced emission-active conjugated polymers based on boron ketoiminate (Grad. Sch. Eng., Kyoto Univ.) ○TANAKA, Kazuo; YOSHII, Ryouyuke; HIROSE, Amane; SUENAGA, Kazumasa; CHUJO, Yoshiki
- 1B2-38** Real-time and Reversible Stress Visualization by Luminescent Elastomer Films (I) (Grad. Sch. Sci., Nagoya Univ.; PRESTO, JST; WPI-ITbM, Nagoya Univ.; IMRAM, Tohoku Univ.) ○SAITO, Shohei; NOBUSUE, Shunpei; YAMAGUCHI, Shigehiro; YABU, Hiroshi; SAITO, Yuta
- 1B2-39** Real-time and Reversible Stress Visualization by Luminescent Elastomer Films (II) (IMRAM, Tohoku Univ.; PRESTO, JST; Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○YABU, Hiroshi; SAITO, Yuta; SAITO, Shohei; NOBUSUE, Shunpei; YAMAGUCHI, Shigehiro

Chair: AJIRO, Hiroharu (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(1B2-41, 1B2-43, 1B2-45, 1B2-46)
- 1B2-41**^{*} Structural-dependent Redox-activity of PEG-*b*-Poly(pyridine) (Fac. Sci., Tokyo Univ. of Sci.) ○MATSUKUMA, Daisuke; TAKAGI, Akane; MAEJIMA, Yukie; OTSUKA, Hidenori

- 1B2-43**^{*} Recyclable, High-performances bio-based Polyamides from 4-amino-cinnamic acid (Sch. Mat. Sci., JAIST) ○TATEYAMA, Seiji; MASUO, Syunsuke; TAKAYA, Naoki; KANEKO, Tatsuo
- 1B2-45** Development of Thermally Stable Epoxy Resin (Hitachi, Ltd.; Grad. Sch. Sci., Eng., Tokyo Tech) ○TANASE, Tomokazu; ARAI, Tadashi; ISHII, Toshiaki; HAYAKAWA, Teruaki
- 1B2-46** Syntheses of novel bio-based high- thermal performance transparent polyurea from 4-aminocinnamic acid (Sch. Mat. Sci., JAIST) ○IBUKI, Yuyuke; TATEYAMA, Seiji; MASUO, Shunsuke; TAKAYA, Naoki; KANEKO, Tatsuo

Chair: HAYAKAWA, Teruaki (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(1B2-48, 1B2-49, 1B2-51, 1B2-52)
- 1B2-48** Synthesis of aromatic bio-based polyamide having high solubility and thermoresistance from β -truxillic acid derivatives (Sch. Mat. Sci., JAIST) ○MAETANI, Shihō; TATEYAMA, Seiji; MASUO, Syunsuke; TAKAYA, Naoki; KANEKO, Tatsuo
- 1B2-49**[#] Impedance analysis of LCST behavior for ionic liquid/NIPAM copolymers (Sch. Mat. Sci., JAIST) ○JAIN, Kamiya; VEDARAJAN, Raman; MATSUMI, Noriyoshi; WATANABE, Masaki; ISHIKIRIYAMA, Mamoru
- 1B2-51** Synthesis of the thermoresponsive polymers having optically active side chains and their enantioselective capturing of organic substrates in water (Kinki Univ.) ○NISHIKAWA, Toshiki; ISHIFUNE, Manabu
- 1B2-52** Observation of the aggregations of the thermoresponsive triblock polymers having a Lewis acid functionalities (Kinki Univ.) ○MORITA, Tomoya; ISHIFUNE, Manabu

Chair: ISHIFUNE, Manabu (17 : 50~18 : 40)

- * 17:40-17:50: interval for laptop PC connection.(1B2-54, 1B2-55, 1B2-57, 1B2-58)
- 1B2-54** Thermosensitive behaviors of poly(trimethylene carbonate) derivatives bearing oligo ethylene glycol units at side chains (MEI Center, Osaka Univ.; JST PRESTO; Grad. Sch. Eng., Osaka Univ.) ○AJIRO, Hiroharu; TAKAHAMA, Shun; TAKAHASHI, Yoshikazu; AKASHI, Mitsuru
- 1B2-55**^{*} Fracture Properties of Polymer gels with controlled network structure (Grad. Sch. Pharm., The Univ. of Tokyo) ○AKAGI, Yuki; GONG, Jian Ping; CHUNG, Ung-il; SAKAI, Takamasa
- 1B2-57** Relationships between aggregation structure and mechanical properties of segmented polyurethane using ester-polyol with secondary hydroxyl groups (Grad. Sch. Eng., Kyushu Univ.) ○NOZAKI, Shuhei; MOTOKUCHO, Suguru; YOSHINAGA, Kohji; HIRAI, Tomoyasu; HIGAKI, Yuji; KOJIO, Ken; TAKAHARA, Atsushi
- 1B2-58** Development of elastomers based on multiblock copolymer bearing alternative rigid and flexible segments (IMCE, Kyushu Univ.) ○KOJIO, Ken; ISHII, Hiroko; MOTOKUCHO, Suguru; YOSHINAGA, Kohji; TAKAHARA, Atsushi; GOSEKI, Raita; HAYAKAWA, Teruaki

Friday, March 27, PM

Chair: KIMURA, Mutsumi (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(2B2-25, 2B2-29)
- 2B2-25**[#] CSJ Award for Technical Development Development and Industrialization of Innovative Reverse Osmosis Membrane Based on New Molecular and Structural Design (Toray Industries, Inc.) ○KIMURA, Masahiro; SASAKI, Takao; NAKATSUJI, Koji; INOUE, Takeharu; KAWAKAMI, Tomonori
- 2B2-29**^{*} Effects of Chain Length and Terminal Group on Temperature-Responsive Chromatography Utilizing Poly(*N*-isopropylacrylamide) via RAFT Polymerization (Fac. Pharm., Keio Univ.) ○HIRUTA, Yuki; NAGUMO, Yuhei; KANAZAWA, Hideko

Chair: HIRUTA, Yuki (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(2B2-32, 2B2-33, 2B2-34, 2B2-35, 2B2-36, 2B2-37)
- 2B2-32** Gas and water separation properties of bridged silsesquioxane membrane bearing acetoxy group as a side chain (Grad. Sch. Eng., Hiroshima Univ.) ○KAZUKI, Yamamoto; OHSHITA, Joji; TOSHINORI, Tsuru
- 2B2-33** Synthesis of graft-type polymer electrolyte membranes consisting of aromatic hydrocarbon polymer/inorganic nanoparticle composites and their properties (Grad. Sch. Sci. Tech., Gunma Univ.; QBSC, JAEA) ○FUKASAWA, Hideyuki; HASEGAWA, Shin; MAEKAWA, Yasunari
- 2B2-34** Selective Permeability of Nano-porous membranes prepared by Surface Polymerization (Grad. Sch. Sci. Technol., Shinshu Univ.) ○HATORI, Masaru; KIMURA, Mutsumi
- 2B2-35** Controlled Radical Polymerization of Glycidyl-containing Block Copolymers and their Post-functionalization toward Photo-cured Coatings (Sch. Advanced Sci. Eng., Waseda Univ.) ○KATAYAMA, Kaori; MINAMIBAYASHI, Kenta; SUGA, Takeo; NISHIDE, Hiroyuki
- 2B2-36** Preparation of Polymeric Cobalt Porphyrin Complexes and its Oxygen Permeability through the Membranes (Sch. Advanced Sci. Eng., Waseda Univ.) ○TSUJIMURA, Ori; NISHIKAMI, Yuki; OYAZU, Kenichi; NISHIDE, Hiroyuki

2B2-37 Catalytic Activity of the Iron-Salen Complexes Immobilized in Solid-State Polymers (Sch. Advanced Sci. Eng., Waseda Univ.) ○SHODA, Motoharu; HISAMA, Ayako; NISHIKAMI, Yuki; OYAIZU, Kenichi; NISHIDE, Hiroyuki

Chair: AKASHI, Mitsuru (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(2B2-39, 2B2-42, 2B2-43)

2B2-39 CSJ Award for Outstanding Young Women Chemists Functionalization of Dendrimers and their Application to Nanomedicine (Osaka Pref. Univ. Grad Sch of Engineering) ○KOJIMA, Chie

2B2-42* Anticancer Activity of Helical Metallo-Supramolecular Polymers (NIMS) ○RANA, Utpal; HIGUCHI, Masayoshi

2B2-43* Chemical modification of glycerol dendrons on liposomes (Kobe Univ. Graduate School of Engineering) ○OOYA, Tooru; KAWASHIMA, Yuji

Chair: HASHIZUME, Mineo (16 : 30~17 : 30)

* 16:20-16:30: interval for laptop PC connection.(2B2-46, 2B2-47, 2B2-48, 2B2-49, 2B2-50, 2B2-51)

2B2-46 Development of a stimuli-responsive nanocarrier using a self-immolative polymer (Grad. Sch. Eng., Osaka Univ.; IFRc, Osaka Univ.) ○KAMIKAWA, Yuko; SAKASHITA, Yuki; KIKUCHI, Kazuya

2B2-47 Synthesis of optically active polylactide bearing catechin at chain end and stereocomplex formation. (Sch. Eng., Osaka Univ.) ○ITO, Shogo; AJIRO, Hiroharu; AKASHI, Mitsuru

2B2-48 Synthesis of Chitosan Stereoisomer by Enzymatic Polymerization (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○YAMASHITA, Kento; SHIMOHIGOSHI, Riko; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi

2B2-49 Synthesis of amphoteric block polysaccharides composed of glucuronic acid and glucosamine units (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○TAKATA, Yusei; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi

2B2-50 Surface-Initiated ATRP of Butyl Methacrylate from Self-Assembled Chitin Nanofibers (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○ENDO, Ryo; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi

2B2-51 Preparation of Amidinium Chitin/Xanthan Gum Composite Nanomaterials (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○KADOKAWA, Jun-ichi; TANAKA, Kohei; YAMAMOTO, Kazuya

Chair: KADOKAWA, Jun-ichi (17 : 40~18 : 30)

* 17:30-17:40: interval for laptop PC connection.(2B2-53, 2B2-54, 2B2-55, 2B2-56, 2B2-57)

2B2-53 Characterization of Alginate/Chitosan Composite Films Prepared Using Hot Press Technique (Fac. Eng., Tokyo Univ. of Sci.) ○NIKAIDO, Yuichi; IJIMA, Kazutoshi; HASHIZUME, Mineo

2B2-54 Supramolecular Asymmetric Photochromogenesis (SMAP) of 2-Anthracenecarboxylate with Proteins & Polymer Hybrids as Chiral Reaction Media-8 -Effects of PEGylation Condition upon SMAP- (IMRAM, Tohoku Univ.; Osaka Univ. UIC & Dept. Appl. Chem.; Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; Grad. Sch. Eng., Osaka Univ.) ○OKUGI, Mitsuru; NISHIJIMA, Masaki; SASAKI, Haruhiko; ARAKI, Yasuyuki; SAKAMOTO, Seiji; IKEDA, Yutaka; NAGASAKI, Yukio; INOUE, Yoshihisa; WADA, Takehiko

2B2-55 Preparation of Polysaccharide Composite Hollow Fibers Using Microfluidic Techniques (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○OHYAMA, Shun; IJIMA, Kazutoshi; YUYAMA, Kazuya; HASHIZUME, Mineo

2B2-56 Preparation of DNA brush prepared by polymerase and conformational change by environmental factors (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○NAKAMURA, Satoshi; MITOMO, Hideyuki; SUZUKI, Shigeaki; MATSUO, Yasutaka; NIHKURA, Kenichi; IJIRO, Kunihara

2B2-57 Mechanical properties of a microtubule (Asahikawa Med. Univ. Dept. Chem.; Fac. Sci., Hokkaido Univ.) ○MAYAMA, Hiroyuki; KABIR, Arif Md. R.; INOUE, Daisuke; HAMANO, Yoshimi; SADA, Kazuki; KAKUGO, Akira

Saturday, March 28, AM

Chair: OYAIZU, Kenichi (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3B2-01, 3B2-02, 3B2-04, 3B2-05)

3B2-01 Development of the oxygen-sensing paint based on domain-selective permeation through phase segregated nanostructure in diblock copolymer film (KIT) ○TAKEHISA, Junya; ASAOKA, Sadayuki

3B2-02* Surface Wettability Controllable Polyimides by UV light Irradiation (KNCT Department of Biochemistry and Applied Chemistry) ○TSUDA, Yusuke

3B2-04 Light Harvesting Function of Crystal Cross-Linked Gel Incorporated with Fluorescent Molecules (Sch. Sci., Hokkaido Univ.) ○OURA, Tsuyoshi; MOCHIZUKI, Yumi; ISHIWATA, Takumi; KOKADO, Kenta; SADA, Kazuki

3B2-05* Novel metallo-supramolecular polymers with imine ligands (NIMS) ○KANAOKA, Miki; HIGUCHI, Masayoshi

Chair: KOKADO, Kenta (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3B2-08, 3B2-10, 3B2-12, 3B2-13)

3B2-08** Humidity-responsive ionic conductivity of linear and 3-dimensional metallo-supramolecular polymers (NIMS) ○PANDEY, Rakesh; HOSSAIN, Md. Delwar; SATO, Takashi; MORIYAMA, Satoshi; HIGUCHI, Masayoshi

3B2-10** Novel Fe/Pt-Based Heterometallo-Supramolecular Polymers (NIMS) ○CHAKRABORTY, Chanchal; MORIYAMA, Satoshi; HIGUCHI, Masayoshi

3B2-12 Electrochromism of metallo-supramolecular polymer in IR region (NIMS) SATO, Takashi; ○HIGUCHI, Masayoshi

3B2-13 Analysis of Smudging Factors for an Electrochromic Device Fabricated with Viologen Polymers (Sch. Advanced Sci. Eng., Waseda Univ.) ○MIZUMA, Takahiro; YAMASAKI, Takaaki; SATO, Kan; OYAIZU, Kenichi; NISHIDE, Hiroyuki

Chair: HIGUCHI, Masayoshi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3B2-15, 3B2-16, 3B2-17, 3B2-18, 3B2-19, 3B2-20)

3B2-15 Synthesis of Lithium Poly(4-styrenesulfonyl(trifluoromethylsulfonyl) imide) and its Electrolyte Property (Sch. Advanced Sci. Eng., Waseda Univ.) ○TSUJI, Tomoyasu; AGATSUMA, Haruka; TOKUE, Hiroshi; OYAIZU, Kenichi; NISHIDE, Hiroyuki

3B2-16 The synthesis of hydrocarbon polyelectrolytes based of poly(*p*-phenylene)s (Fac. Sci., Sophia Univ.; FC-Cubic, AIST) ○OGU, Kenichi; OSHIMS, Tastuya; OHIRA, Akihiro; RIKUKAWA, Masahiro

3B2-17 Quinaldine-substituted Polyacrylamide and its Electrochromic Hydrogenation (Sch. Advanced Sci. Eng., Waseda Univ.) ○OOYA, Takahiro; SHIMAZAKI, Yuma; KATO, Ryo; OYAIZU, Kenichi; NISHIDE, Hiroyuki

3B2-18 Poly(fluorenone-substituted acrylamide) and Hydrogen Storage Property (Sch. Advanced Sci. Eng., Waseda Univ.) ○IWAWAKI, Ayaka; YOSHIMASA, Keisuke; KATO, Ryo; OYAIZU, Kenichi; NISHIDE, Hiroyuki

3B2-19 Thiol-ene Functionalization of Poly(TEMPO-norbornene)s toward Organic Resistive Memory (Sch. Advanced Sci. Eng., Waseda Univ.) ○TAKATA, Yu; SUGA, Takeo; NISHIDE, Hiroyuki

3B2-20 Synthesis of donor and acceptor groups terminated caged-typed octasilicate core dendrimers (KIT) ○YAMANAKA, Takahiro; IRIE, Yasuyuki; IMOTO, Hiroaki; NAKA, Kensuke

Saturday, March 28, PM

Chair: SUZUKI, Takayuki (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3B2-28, 3B2-29, 3B2-30, 3B2-31, 3B2-32, 3B2-33)

3B2-28 Redox Behavior of Poly (TEMPO-Substituted Acrylamide - Acrylic Acid) Particles under Flow Condition (Sch. Advanced Sci. Eng., Waseda Univ.) ○WATANABE, Rihito; SAKAZAKI, Ryosuke; TOKUE, Hiroshi; OYAIZU, Kenichi; NISHIDE, Hiroyuki

3B2-29 Synthesis of Polyfluoroflavine Derivatives and Application to an Organic Electrode-Active Material (Sch. Advanced Sci. Eng., Waseda Univ.) ○KISHIDA, Taisuke; NAKAO, Satoshi; KAWAI, Takuma; OYAIZU, Kenichi; NISHIDE, Hiroyuki

3B2-30 Polymerization of hetero ring quinones and Application to an Organic Electrode-Active Material (Sch. Advanced Sci. Eng., Waseda Univ.) ○KAMBE, Yuya; KATAGIRI, Ryu; NAKAO, Satoshi; OYAIZU, Kenichi; NISHIDE, Hiroyuki

3B2-31 Thin film transistors using Single-wall carbon nanotube-polymer complex (Toray Industries, Inc.) ○SHIMIZU, Hiroji; TANAKA, Takeshi; KATAURA, Hiromichi; ISOGAI, Kazuki; MURASE, Seiichiro

3B2-32 Fabrication and characteristics of poly(3-alkoxythiophene) field-effect transistor (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○KASHIMA, Sae; KOIZUMI, Hitoshi

3B2-33 Atmosphere dependence of electric conductivity of polypyrrole (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○MURAKAMI, Naoyuki; KOIZUMI, Hitoshi

Chair: HAYAKAWA, Teruaki (14 : 40~15 : 30)

* 14:30-14:40: interval for laptop PC connection.(3B2-35, 3B2-36, 3B2-37, 3B2-38, 3B2-39)

3B2-35 Photo-cured Polymer Coatings Containing Zwitterion: Preparation and Surface Property (Sch. Advanced Sci. Eng., Waseda Univ.) ○KOBAYASHI, Matsutarō; MINAMIBAYASHI, Kenta; SUGA, Takeo; NISHIDE, Hiroyuki

3B2-36 Dye-sensitized Solar Cell Fabricated with Radical Polymers as a Counter Electrode (Sch. Advanced Sci. Eng., Waseda Univ.) ○NAKAJIMA, Risano; UENO, Masahiro; OYAIZU, Kenichi; NISHIDE, Hiroyuki

3B2-37 Evaluation of the structure of polymeric spiroopyrans in various solvent species by DOSY (Sch. Eng., Tokyo Denki Univ.) ○MOMIYAMA, Takashi; AKIMOTO, Takahiro; IWASAKI, Naoya; SUZUKI, Takayuki

3B2-38 Synthesis and Properties of Novel Schiff Base Chiral Macrocycles (Grad. Sch. Eng., Tokyo Denki Univ.) ○MATSUMOTO, Nachika; MIYASAKA, Makoto

3B2-39 Synthesis and properties of π -extended structure based on chiral [5] helicene derivatives (Grad. Sch. Eng., Tokyo Denki Univ.) ○YOSHIDA, Yu; MIYASAKA, Makoto

Chair: MIYASAKA, Makoto (15 : 40~16 : 30)

* 15:30-15:40: interval for laptop PC connection.(3B2-41, 3B2-42, 3B2-43, 3B2-45)

3B2-41 Enzymatic Synthesis of Reactive Cellulose Nanosheets and Their Functionalization through Click Reaction (Grad. Sch. Sci., Eng., Tokyo Tech) ○YATAKA, Yusuke; SAWADA, Toshiki; SERIZAWA, Takeshi

3B2-42 Enhancement of the Hydrolytic Activity of Cellulose Nanosheets Prepared by Enzymatic Synthesis (Grad. Sch. Sci., Eng., Tokyo Tech) ○KATO, Mari; SAWADA, Toshiki; SERIZAWA, Takeshi

3B2-43* Majority-Rule-Type Helical Poly(quinoxaline-2,3-diy)ls Leading to Asymmetric Catalysis with Efficient Chiral Amplification (Grad. Sch. Eng., Kyoto Univ.) ○KE, Yuanzhen; NAGATA, Yuuya; SUGINOME, Michinori

3B2-45[#] Solvent effect on the Pressure-dependent Helix Inversion of Poly(quinoxaline-2,3-diy)ls (Grad. Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; ○TAKEDA, Ryohei; SUGINOME, Michinori

Chair: SAWADA, Toshiki (16 : 40~17 : 20)

* 16:30-16:40: interval for laptop PC connection.(3B2-47, 3B2-48, 3B2-49, 3B2-50)

3B2-47[#] Water-soluble Poly(quinoxaline-2,3-diy)ls Having Side Chains Derived from Chiral Lactic Acid: Control of Helical Chirality by Salt Effect (Grad. Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; ○KURODA, Takuma; SUGINOME, Michinori

3B2-48 Chiral induction in the reaction on polysaccharide derivatives (Grad. Sch. Mat. Sci., Univ. of Hyogo; Daicel Corporation) ○CHIKAI, Kyoko; SHIBATA, Toru; MISAKI, Tomonori; SUGIMURA, Takashi

3B2-49 Control of Helical Chirality by Chiral Guests: Poly(quinoxaline-2,3-diy)ls Bearing Boronyl Pendants (Grad. Sch. Eng., Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○KOMATSU, Satoko; MURAKAMI, Ryo; YAMAMOTO, Takeshi; SUGINOME, Michinori

3B2-50 Palladium Nanoparticle Using Phenylazomethine Dendrimer as an Atom Number Controlling Template (Chem. Res. Lab., Tokyo Tech) ○KOFUKU, Taku; KITAZAWA, Hirokazu; ALBRECHT, Ken; CHUN, Wang Jae; IMAOKA, Takane; YAMAMOTO, Kimihisa

Sunday, March 29, AM

Chair: KOKADO, Kenta (9 : 00 ~9 : 50)

* 8:50-9:00: interval for laptop PC connection.(4B2-01, 4B2-02, 4B2-04, 4B2-05)

4B2-01 Synthesis and Properties of Functional Gels Having Aggregation-Induced Emission Properties (Grad. Sch. Eng., Kyoto Univ.) ○SUENAGA, Kazumasa; YOSHII, Ryouyusuke; TANAKA, Kazuo; CHUJO, Yoshiaki

4B2-02* Selective calcium ion sensing by polyacrylic acid and its gels carrying an aggregation-induced emission fluorophore (1) (Chem. Res. Lab., Tokyo Tech) ○ISHIWARI, Fumitaka; HASEBE, Hanako; SOMEYA, Takao; FUKUSHIMA, Takanori

4B2-04 Selective calcium ion sensing by polyacrylic acid and its gels carrying an aggregation-induced emission fluorophore (2) (Chem. Res. Lab., Tokyo Tech) ○HASEBE, Hanako; ISHIWARI, Fumitaka; SOMEYA, Takao; FUKUSHIMA, Takanori

4B2-05 One-pot Synthesis of Poly(*N*-isopropylacrylamide) Gels with Near-ideal Polymer Network Structure (Sch. Eng., Nagoya Univ.) ○JOCHI, Yuto; TAKEOKA, Yukikazu; SEKI, Takahiro; SATOH, Kotaro; KAMIGAITO, Masami

Chair: FUKUSHIMA, Takanori (10 : 00~10 : 50)

* 9:50-10:00: interval for laptop PC connection.(4B2-07, 4B2-09, 4B2-11)

4B2-07** Preparation of Ordered Network Polymers via Crystal Cross-linking Method (Fac. Sci., Hokkaido Univ.) ○KOKADO, Kenta; ISHIWATA, Takumi; SADA, Kazuki

4B2-09** Structure of supramolecular cross-linker consisting of cyclodextrin / macromonomer and properties of network polymers obtained from it (Grad. Sch. Sci., Eng., Tokyo Tech) ○IJIMA, Keisuke; AOKI, Daisuke; UCHIDA, Satoshi; TAKATA, Toshikazu

4B2-11 Interaction of basic polymer and low molecular weight gelators with carboxyl group. (Fac. Textile Sci. Technol., Shinshu Univ.) ○ISHIKAWA, Yasunobu; SUZUKI, Masashiro; HANABUSA, Kenji

Chair: TAKEOKA, Yukikazu (11 : 00~11 : 40)

* 10:50-11:00: interval for laptop PC connection.(4B2-13, 4B2-15, 4B2-16)

4B2-13* Preparation of supramolecular gel actuator driven by the sliding motion of [c2]Daisy chain (Grad. Sch. Sci., Osaka Univ.) ○IWASO, Kazuhisa; TAKASHIMA, Yoshinori; HARADA, Akira

4B2-15 Branched PEG-DNA conjugate for the preparation of potassium ion responsive hydrogel (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○WAKABAYASHI, Kenta; TANAKA, Shizuma; FUKUSHIMA, Kazuki; KUZUYA, Akinori; OHYA, Yuichi

4B2-16 Preparation of a Supermolecular Material Containing a Four-Armed Polymer and Its Self-Healing Property. (Grad. Sch. Sci., Osaka Univ.) ○SANO, Takaaki; TAKASHIMA, Yoshinori; HARADA, Akira

Room B3

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Education and History of Chemistry

Friday, March 27, PM

Chair: TAKAGI, Yumiko (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(2B3-25, 2B3-27, 2B3-29, 2B3-30)

2B3-25* Chemistry Education for Freshman and Sophomore having various background (Kanazawa Inst. of Tech. Math & Sci. division) ○OYABU, Matashige

2B3-27* Acquisition situation of the knowledge of the high school chemistry investigated by an achievement test for freshmen. II (Fac. of Sci., Okayama Univ. of Sci.) ○TAKAHARA, Shuichi

2B3-29 Web-based Learning System to Assist Students in Basic Chemistry Courses (Fac. Edu., Tokoha Univ.) ○NAKAGAWA, Kuniaki

2B3-30 Students Engagement in Organic Chemistry - Comparison with College Students in the U.S. (NCT Department of Chemistry and Biochemistry) ○AOYAMA, Yoko

Chair: AOYAMA, Yoko (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(2B3-32, 2B3-33, 2B3-34, 2B3-35, 2B3-37)

2B3-32 Development of environmental-benign Teaching Materials using Ionic Liquids (Fac. Edu., Kagawa Univ.) ○KOMADA, Yuya; FUKUI, Nobuo; TAKAGI, Yumiko

2B3-33 Development of environmental-benign teaching material; application for science fair with companies of chemistry . (Fac. Edu., Kagawa Univ.) ○NISHIDA, Risa; YASUI, Masaki; TAKAGI, Yumiko

2B3-34 Workshop for support of teaching material study - An example introduction of the decomposition of ammonium hydrogen carbonate (Fac. Edu., Univ. of Ryukyus) ○YOSHIDA, Akira; FUKUMOTO, Misaki; HIGA, Takashi

2B3-35* Science education and its evaluation of students with high motivation and talent in science (Fac. Edu., Ehime Univ.) ○OHASHI, Atsushi; SUMIDA, Manabu; HAYASHI, Hidenori; NAWAMURA, Toshikuni; WADA, Takayuki

2B3-37 The summer course for elementary school children and their parents to attract their interest on chemistry (Salesian Polytechnic General Education Department) ○NAGAO, Akemi; WADA, Hatue; YOKOYAMA, Matsuo; OHSUGI, Jisao

Chair: INOUE, Masayuki (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(2B3-39, 2B3-40, 2B3-42, 2B3-44)

2B3-39 Development of effective high school chemistry learning materials due to the introduction of medicinal chemistry with a focus on structure-activity relationship (Hokkaido science education center) ○ITO, Takayuki

2B3-40* phase transition model due to the Pentadron (Res. Inst. Sci. Technol., Tokyo Univ. of Sci.) ○AKIYAMA, Jin; SATO, Ikuro

2B3-42* construction of higher dimensional crystals (Res. Inst. Sci. Technol., Tokyo Univ. of Sci.) ○SATO, Ikuro; AKIYAMA, Jin

2B3-44 Development of inexpensive materials for understanding the principle of single-crystal X-structure analysis (Fac. Edu., Ehime Univ.) ○WADA, Takayuki; OHASHI, Atsushi

Chair: TAKAHASHI, Nitsuo (16 : 30~17 : 20)

* 16:20-16:30: interval for laptop PC connection.(2B3-46, 2B3-47, 2B3-48, 2B3-49, 2B3-50)

2B3-46 Practical Lesson on Microscale Experiment for Elementary School Science using Anthocyanine from Grape Peel (Kobe College) ○NAKAGAWA, Tetsuo

2B3-47 Fabrication of a Microfluidic Device Using the Y-shaped Channel in High School Classrooms (Kobe College High School) ○IKEDA, Ikuhiro

2B3-48 Education for Sustainable Development and Microscale Chemistry (Tohoku Univ.) ○OGINO, Kazuko

2B3-49 Small-scale experiments in chemical engineering for chemical education for undergraduates (Grad. Sch. Sci. Eng., Chuo Univ.) ○OHKI, Shotaro; KONNO, Yuki; KUWAHARA, Shota; KATAYAMA, Kenji

2B3-50* Proposal of Sustainability Olympiad as a Result of United Nations Decade of Education for Sustainable Development. (home) ○AMAYA, Kazuo

Chair: NAKAGAWA, Tetsuo (17 : 30~18 : 30)

* 17:20-17:30: interval for laptop PC connection.(2B3-52, 2B3-54, 2B3-55, 2B3-56)

2B3-52* Studies on the effect of altitude on barometric pressure using an air battery (Tokyo Nat. Coll. of Tech. Department of Chemical Science and Engineerin) ○TAKAHASHI, Nitsuo; SONOBE, Yukie; KAWASHIMA,

Room B4

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- Norimichi; HADA, Yoshihiro; IIDA, Hiroshi; IWAKI, Keiichi; GOTO, Kenichi; NOUCHI, Yorikazu; MATAUBARA, Shizuo
- 2B3-54** Analysis Method of NMR Spectrum Using Puzzle Assignment Method (KNCT) ○HASHIMOTO, Norifumi
- 2B3-55** Development of teaching material of simple analysis of sugar in the drink - Quantification of glucose, fructose and sucrose- (Takasaki University of Health and Welfare) ○KATAYAMA, Takeshi; TANAKA, Susumu
- 2B3-56*** Representation of the(+),(-)signs on wave function of electronic orbital at the new structural formula (LOGES Director) ○SANO, Hiroshi

Saturday, March 28, AM

Chair: GOITSUKA, Yukari (9 : 00 ~ 9 : 30)

* 8:50-9:00: interval for laptop PC connection.(3B3-01, 3B3-02, 3B3-03)

- 3B3-01** Examination of aramids for the experimental educational materials - Detection of heating and chemical resistance of aramids - (Hirotsaki Univ. Graduate school of education) ○SHINYA, Ryota; CHOUNAN, Yukiyasu
- 3B3-02** Detection of Polyester Plastics and Fiber by Hydroxamic Acid Method. (Grad. Sch. Mathematics Sci. Edu., Tokyo Univ. of Sci.) ○HIROSE, Akinori; INOUE, Masayuki
- 3B3-03** Japanese Peppermint of Kitami City; Wide Applicability to the Laboratory Class. (Tokai Univ. Liberal Arts Education Center, Sapporo Campus) ○MITSUNORI, Izumi

Chair: MURATA, Shigeru (9 : 40 ~ 10 : 40)

* 9:30-9:40: interval for laptop PC connection.(3B3-05, 3B3-08)

- 3B3-05** CSJ Award for Merits for Chemical Education Contribution to the Development of Chemical Education : Teaching Materials and Lesson Plans Using Various Food Ingredients (TEZUKAYAMA Junior and Senior High School) ○TSUCHIMA, Satoshi
- 3B3-08** CSJ Award for Merits for Chemical Education Development of Visual Approaches to Chemical Education (Tokyo Metropolitan Government Board of Education) ○GOITSUKA, Yukari

Chair: SHIMOI, Mamoru (10 : 50 ~ 11 : 50)

* 10:40-10:50: interval for laptop PC connection.(3B3-12)

- 3B3-12** CSJ Award for Chemical Education Contribution to Popularization and Internationalization of Chemistry through "Grand Contest on Chemistry for High School Students" (Grad. Sch. Sci., Osaka City Univ.) ○NAKAZAWA, Hiroshi

Sunday, March 29, AM

Chair: AMIMOTO, Kiichi (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4B3-01, 4B3-04)

- 4B3-01** CSJ Award for Merits for Chemical Education Contribution to Chemical Education by Development of Experimental Material Program (Wayokudan girls senior highschool) ○NAKAGOME, Shin
- 4B3-04** CSJ Award for Merits for Chemical Education Contribution to Chemical Education in Kyushu and Development of New Field for High School Chemical Education (Shuyukan Senior High School) ○TAKAHASHI, Yoshito

Chair: UCHIYAMA, Katsumi (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4B3-08)

- 4B3-08** CSJ Award for Chemical Education Contributions to Chemistry Dissemination System Architecture and the International Chemistry Olympiad (Sch. Advanced Sci. Eng., Waseda Univ.; Kagami Memorial Research Inst. Materials Sci. Tech., Waseda Univ.) ○SUGAHARA, Yoshiyuki

Chair: CHOUNAN, Yukiyasu (11 : 20 ~ 12 : 10)

* 11:10-11:20: interval for laptop PC connection.(4B3-15, 4B3-17, 4B3-18, 4B3-19)

- 4B3-15*** Understanding of the molecular structure-property relationship for high school students (Kobe-Kohoku High school) ○KONISHI, Akihito
- 4B3-17** Reduction of nitrobenzene using formic acid as a teaching material (Grad. Sch. Educ., Hiroshima Univ.) ○HASE, Kiyofumi; AMIMOTO, Kiichi
- 4B3-18** The hydration of alkyne without utilizing mercury catalyst (Grad. Sch. Mathematics Sci. Edu., Tokyo Univ. of Sci.) ○UEHARA, Satoru; INOUE, Masayuki
- 4B3-19** Recognition of isomer of butanols by the elimination with solid acid (Grad. Sch. Mathematics Sci. Edu., Tokyo Univ. of Sci.) ○URA, Kosuke; INOUE, Masayuki

Analytical Chemistry

Thursday, March 26, AM

Material Analysis

Chair: TSUKAGOSHI, Kazuhiko (9 : 30 ~ 10 : 30)

* 9:20-9:30: interval for laptop PC connection.(1B4-04, 1B4-05, 1B4-06, 1B4-08)

- 1B4-04** Adsorption behavior of Au(III) ion to nickel carbonate (Grad. Sch. Sci., Kyushu Univ.) ○ANDO, Hiroaki; KAWAMOTO, Daisuke; OHASHI, Hironori; OJI, Hiroshi; HONMA, Tetsuo; ISHIDA, Tamao; OKAUE, Yoshihiro; TOKUNAGA, Makoto; YOKOYAMA, Takushi
- 1B4-05** Preparation of antimony oxide supported gold and its characterization (Fac. Arts and Sci., Kyushu Univ.) ○OHASHI, Hironori; OKAUE, Yoshihiro; YOKOYAMA, Takushi
- 1B4-06*** Study on the spatial distribution of Pt chemical species in polymer electrolyte fuel cell by the same-view imaging of nano-XAFS and TEM/STEM-EDS. (Innovation Res. Ctr. for Fuel Cells, The Univ. of Electro-Communications) ○TAKAO, Shinobu; SEKIZAWA, Oki; SAMJESKE, Gabor; NAGAMATSU, Shin-ichi; KANEKO, Takuma; YAMAMOTO, Takashi; HIGASHI, Koutaro; NGASAWA, Kensaku; URUGA, Tomoya; IWASAWA, Yasuhiro
- 1B4-08*** Study of Surface Analysis on the Nano-Particle made by Polystyrene by using Attenuated Total Reflectance Spectroscopy in the Far-UV Region (Fac. Sci. Eng., Kinki Univ.; Sch. Sci. Tech., Kwansai Gakuin Univ.) ○MORISAWA, Yusuke; OCHI, Takashi; RYOKI, Takayuki; TANAKA, Yoshito; TANABE, Ichiro; OZAKI, Yukihiko

Chair: YOKOYAMA, Takushi (10 : 40 ~ 11 : 40)

* 10:30-10:40: interval for laptop PC connection.(1B4-11, 1B4-13, 1B4-15, 1B4-16)

- 1B4-11*** Local Charge/discharge Property mapping of Lithium Ion Secondary Battery using Nano Electrochemical Cell Microscopy (WPI-AIMR, Tohoku Univ.; Grad. Sch. Environmental Studies, Tohoku Univ.; PRESTO, JST) ○TAKAHASHI, Yasufumi; KUMATANI, Akichika; INOMATA, Hirotaka; MUNAKATA, Hirokazu; INO, Kosuke; SHIKU, Hitoshi; KANAMURA, Kiyoshi; MATSUE, Tomokazu
- 1B4-13*** Characteristic evaluation of new interface layer in ceramix matrix composite (Ind. Tech. Inst. Ibaraki Pref.) ○KATO, Takeshi; ANDO, Ryo; HASEGAWA, Yoshio; NAGAYAMA, Sachiko
- 1B4-15** Determination of pyruvate in fermented foods using self-driven bio-coulometry (Dept. of Chem. Eng., NNCT) ○MIKI, Kojiro; KAWASHIMA, Kohei; OGATA, Nanami; KITAMURA, Makoto
- 1B4-16** Single oxygen chemiluminescence detection with visible and near infrared wavelength and effects of antioxidants on it (Fac. Sci. Eng., Doshisha Univ.) ○KANEMATSU, Hiroshi; SUZUKI, Naomichi; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

Thursday, March 26, PM**Micro Analysis**

Chair: TANAKA, Yo (14 : 20 ~ 15 : 20)

* 14:10-14:20: interval for laptop PC connection.(1B4-33, 1B4-34, 1B4-35, 1B4-37)

- 1B4-33** Development of microchip TRDC with two-phase system water-hydrophilic/hydrophobic organic solvents (Grad. Sch. Eng., Doshisha Univ.) ○HATANO, Shogo; SUZUKI, Naomichi; FUJINAGA, Satoshi; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 1B4-34** Effects of inner diameters of microspace on TRDP creation (Fac. Sci. Eng., Doshisha Univ.) ○NAKAYAMA, Yukari; SAWADA, Shohai; HATANO, Shogo; FUJINAGA, Satoshi; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 1B4-35*** Consideration of TRDP phase formation based on hydrodynamic calculation (Grad. Sch. Eng., Doshisha Univ.) ○FUJINAGA, Satoshi; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko; MIZUSHIMA, Jiro
- 1B4-37*** Separation of water-soluble molecules in microdroplets by using spontaneous emulsification (Grad. Sch. Sci., Eng., Tokyo Tech) ○FUKUYAMA, Mao; HIBARA, Akihito

Chair: HIBARA, Akihito (15 : 30 ~ 16 : 30)

* 15:20-15:30: interval for laptop PC connection.(1B4-40, 1B4-41, 1B4-42, 1B4-43, 1B4-44, 1B4-45)

- 1B4-40** Development of a Simple Valve on a Bilayer Microchip (RIKEN QBiC) MORIGUCHI, Hiroyuki; ○KAWAI, Takayuki; TANAKA, Yo
- 1B4-41** Quantification and Counting Using Staining of the Pseudo-immobilization and Isolation of Bioparticles from Polymer Medium Based on the

Construction of Dielectrophoretic Flow System (Fac. Symb. Sys. Sci., Fukushima Univ.; Inst. Env. Radioactivity, Fukushima Univ.)
 ○OKAMOTO, Kana; TAKAGAI, Yoshitaka

1B4-42 Development of a single cell analysis by microwell (Grad. Sch. Eng., Nagoya Univ.) KOYAMA, Ryo; ○KAJI, Noritada; YASUI, Takao; BABA, Yoshinobu

1B4-43 Evaluation of insulating property of silicon nanobiodevices (Grad. Sch. Eng., Nagoya Univ.) ○SANO, Mamiko; YASUI, Takao; KAJI, Noritada; TANIGUCHI, Masateru; KAWAI, Tomoji; BABA, Yoshinobu

1B4-44 Nano- and microfabrication by using conducting/insulating polymer composite (Grad. Sch. Eng., Osaka Pref. Univ.) ○TERABE, Masahiro; TAKAI, Yoshiro; NISHINO, Tomoaki; SHIIGI, Hiroshi; NAGAOKA, Tsutomu

1B4-45 Development of 3D Fractal Structures for a Separation Medium. 4 (Grad. Sch. Eng., Kyoto Univ.) ○NAKAMURA, Makoto; NAITO, Toyohiro; KUBO, Takuya; OTSUKA, Koji

Chair: KAWAI, Takayuki (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(1B4-47, 1B4-48, 1B4-49, 1B4-50, 1B4-51)

1B4-47 Development of microfluidic vascular and extracellular matrix model for permeation assay (JWU) ○KUMADA, Ai; SATO, Kae

1B4-48 Hematopoietic differentiation of mouse ES cells in microfluidic devices (JWU) ○ISHII, Sayaka; MIWA, Ryouko; KITAJIMA, Kenji; HARA, Takahiko; SATO, Kae

1B4-49 Development of nanowire structures for highly-efficient trapping of extracellular vesicles (Grad. Sch. Eng., Nagoya Univ.) ○TABUCHI, Keiko; YASUI, Takao; HE, Yong; YANAGIDA, Takeshi; SAKON, Rahong; KANAI, Masaki; NAGASHIMA, Kazuki; KAJI, Noritada; KAWAI, Tomoji; BABA, Yoshinobu

1B4-50 Nanowires anchored in microchannels for rapid extra cellular vesicle filtration (Grad. Sch. Eng., Nagoya Univ.) ○TAKESHITA, Daiki; YASUI, Takao; HE, Yon; YANAGIDA, Takeshi; KAJI, Noritada; SAKON, Rahong; KANAI, Masaki; NAGASHIMA, Kazuki; KAWAI, Tomoji; BABA, Yoshinobu

1B4-51* Nanowires for extracellular vesicles analysis (Grad. Sch. Eng., Nagoya Univ.) ○YASUI, Takao; KONAKADE, Yuki; ITO, Satoru; YANAGIDA, Takeshi; KAJI, Noritada; KANAI, Masaki; NAGASHIMA, Kazuki; KAWAI, Tomoji; BABA, Yoshinobu

Friday, March 27, AM

Bioanalysis

Chair: OZAWA, Takeaki (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2B4-01, 2B4-02, 2B4-03, 2B4-04, 2B4-05, 2B4-06)

2B4-01 Hands-Free Creation of Monodisperse Water-in-Oil Droplets Using a PDMS Microfluidic Chip for Droplet Digital PCR (Fac. Sci. Eng., Doshisha Univ.) ○NAKASHOJI, Yuta; TANAKA, Hironari; YAMAMOTO, Shunsuke; TSUKAGOSHI, Kazuhiko; HASHIMOTO, Masahiko

2B4-02 Point Mutation Detection Based on Allele-Specific Cleavage of a DNA/RNA Chimeric Probe: Mass Spectrometric Analysis of Cleaved Probe Fragments (Grad. Sch. Eng., Doshisha Univ.) ○OKURA, Naoki; TSUKAGOSHI, Kazuhiko; HASHIMOTO, Masahiko

2B4-03 Facilitation of Single Base Extension-Based DNA Point Mutation Detection Assay: Comparison of Magnetic Bead-Based and FRET-Based Approach (Grad. Sch. Eng., Doshisha Univ.) ○NAKAJIMA, Chinami; TSUKAGOSHI, Kazuhiko; HASHIMOTO, Masahiko

2B4-04[#] Signal Amplification in Gene Analysis Based on Graphene Oxide and DNA Circuit (Grad. Sch. Sci. Technol., Kumamoto Univ.; CREST, JST) ○MIYAHATA, Taakaiki; MATSUO, Tomoya; KITAMURA, Yusuke; IHARA, Toshihiro

2B4-05[#] On-chip FRET Graphene Oxide Aptasensor: Quantitative Evaluation of Enhanced Sensitivity by Aptamer With a Double-stranded DNA Spacer (NTT BRL) ○UENO, Yuko; TIN, Andrew; FURUKAWA, Kazuaki; HIBINO, Hiroki

2B4-06 Microchip in situ Padlock RCA for DNA counting in a cell: Analysis of the tissue slice (JWU) ○ISHIGAKI, Yuri; NISHIHARA, Hiroshi; SATO, Kae

Chair: SATO, Kae (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2B4-08, 2B4-09, 2B4-10, 2B4-12, 2B4-13)

2B4-08 Development of droplet-based multiple displacement amplification method for single-cell genomic analysis (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○NISHIKAWA, Yohei; HOSOKAWA, Masahito; TAKEYAMA, Haruko

2B4-09 Electrochemical Telomerase Assay using naphthalene diimide derivative carrying four ferrocene moieties (Sch. Eng., KIT) ○KAJIMA, Atsuhito; SATO, Shinobu; TAKENAKA, Shigeori

2B4-10* Development of triplex-forming fluorescent PNA probes for sequence-selective detection of double-stranded RNA (Grad. Sch. Sci., Tohoku Univ.) ○SATO, Takaya; SATO, Yusuke; NISHIZAWA, Seichi

2B4-12 Detection of DNA methylation sites at a single molecule level (Grad.

Sch. Eng., Nagoya Univ.) ○HATTORI, Atsunori; YASUI, Takao; KAJI, Noritada; BABA, Yoshinobu

2B4-13 Development of a multi-parameters sensing system by using micro-channel devices (Grad. Sch. Eng., Nagoya Univ.) ○YASAKI, Hiroto; YASUI, Takao; YANAGIDA, Takeshi; KAJI, Noritada; KANAI, Masaki; SAKON, Rahong; NAGASHIMA, Kazuki; KAWAI, Tomoji; BABA, Yoshinobu

Chair: NISHIZAWA, Seichi (11 : 20~12 : 30)

* 11:10-11:20: interval for laptop PC connection.(2B4-15, 2B4-16, 2B4-17, 2B4-18, 2B4-20)

2B4-15 Evaluation of intracellular oxygen levels based on the phosphorescence lifetime measurements of cationic iridium complex (Grad. Sch. Sci. Tech., Gunma Univ.) ○YOSHIIHARA, Toshiyuki; MASUDA, Tsuyoshi; MORI, Masanobu; ITABASHI, Hideyuki; TOBITA, Seiji

2B4-16* Quantification of the activity of the photoreceptor proteins, opsins, with luminescence probe (Grad. Sch. Sci., The Univ. of Tokyo) ○NISHIGUCHI, Tomoki; OZAWA, Takeaki

2B4-17* Imaging Temporal Variation of Protein Association Using Split Timer Fluorescent Protein (Grad. Sch. Sci., The Univ. of Tokyo) ○TAKAMURA, Ayari; HATTORI, Mitsuru; YOSHIMURA, Hideaki; OZAWA, Takeaki

2B4-18* Single stem cell labeling with low cytotoxic quantum dot and 3D in vivo imaging. (Grad. Sch. Eng., Nagoya Univ.) ○OGIHARA, Yusuke; YUKAWA, Hiroshi; ONOSHIMA, Daisuke; KAMEYAMA, Tatsuya; HAYASHI, Yumi; TORIMOTO, Tsukasa; ISHIKAWA, Tetsuya; BABA, Yoshinobu

2B4-20* Ultra-sensitive assay of enzymatic activity by surface pitting on nanofibrous substrates (JAMSTEC) ○TSUDOME, Mikiko; DEGUCHI, Shigeru

Friday, March 27, PM

Chair: IHARA, Toshihiro (13 : 40~14 : 40)

* 13:30-13:40: interval for laptop PC connection.(2B4-29, 2B4-30, 2B4-32, 2B4-33, 2B4-34)

2B4-29 Detection of cytokines based on membrane-based microwave mediated electrochemical ELISA (MMeELISA) (Grad. Sch. Eng., KIT) ○TAKENAKA, Fuminori; DIALA, Irmina; MORISHITA, Masaki; USUI, Michihiko; NAKASHIMA, Keisuke; NISHIHARA, Tatsuji; SATO, Shinobu; TAKENAKA, Shigeori

2B4-30* Development of single-molecule tunnel-current detection for identification of amino-acid and peptide (Osaka Univ.) ○OHSHIRO, Takahito; TSUTSUI, Makusu; YOKOTA, Kazumichi; TANIGUCHI, Masateru

2B4-32 Development of a PEG-Based Hydrogel for Protein Recognition. 3 (Grad. Sch. Eng., Kyoto Univ.) ○ARIMURA, Shunsuke; NAITO, Toyohiro; KUBO, Takuya; OTSUKA, Koji

2B4-33 Cell Rupture and Nucleic Acid Extraction by Magnetic Nanowires (Grad. Sch. Eng., Nagoya Univ.) ○OKAWA, Tomoki; YASUI, Takao; KAJI, Noritada; HE, Yong; YANAGIDA, Takeshi; KANAI, Masaki; NAGASHIMA, Kazuki; KAWAI, Tomoji; BABA, Yoshinobu

2B4-34 Construction of nanoantennas on bacteria (Grad. Sch. Eng., Osaka Pref. Univ.) ○ISHIKI, Kengo; NISHINO, Tomoaki; SHIIGI, Hiroshi; NAGAOKA, Tsutomu

Sensor

Chair: SUEYOSHI, Kenji (14 : 50~15 : 50)

* 14:40-14:50: interval for laptop PC connection.(2B4-36, 2B4-37, 2B4-38, 2B4-40)

2B4-36 Ion Sensor Properties of Gels Based on Low-Molecular-Weight Gelators Bearing Urea Groups and Examination of Gel Structure Using Spectroscopy (Fac. Sys. Eng., Wakayama Univ.) ○ITAGAKI, Yusuke; YAJIMA, Setsuko; KIMURA, Keiichi

2B4-37 Ion Sensor Properties of Sol-Gel Derived Membranes Modified Chemically with Carbonate-Ion-Selective Molecular Tweezer-Type Trifluoroacetophenone Derivative (Fac. Sys. Eng., Wakayama Univ.) ○ISHIGAKI, Hiromasa; YAJIMA, Setsuko; KIMURA, Keiichi

2B4-38* Development of Reversible and Turn-on Type Fluorescent Probe for Hydrogen Sulfide Based on a Redox Cycle between Selenoxide and Selenide (Grad. Sch. Sci., Eng., Saitama Univ.) ○ANNAKA, Tatsuro; NAKATA, Norio; ISHII, Akihiko

2B4-40[#] Fluorescence Turn -On Nanobiosensor Quantum Switch for the Sensitive Detection of Matrix Metalloproteinase (Grad. Sch. Eng., Nagoya Univ.) ○PILLAI, Sreenadh Sasidharan; YUKAWA, Hiroshi; ONOSHIMA, Daisuke; BIJU, Vasudevanpillai; BABA, Yoshinobu

Chair: NAKAHARA, Yoshio (16 : 00~17 : 00)

* 15:50-16:00: interval for laptop PC connection.(2B4-43, 2B4-45, 2B4-47, 2B4-48)

2B4-43[#] Fabrication of an Extended-Gate Type Organic Transistor Sensor Functionalized by Phenylboronic Acid (Grad. Sch. Sci., Eng., Yamagata Univ.) ○MINAMI, Tsuyoshi; MINAMIKI, Tsukuru; FUKUDA, Kenjiro; KUMAKI, Daisuke; TOKITO, Shizuo

2B4-45* Single Wavelength Measurements of Refractive Index Changes Using a Potential-Scanning Localized Surface Plasmon Resonance Sensor (IIS, The

- Univ. of Tokyo) ○NISHI, Hiroyasu; HIROYA, Sayaka; TATSUMA, Tetsu
2B4-47 Application of SiO₂-Au Core-Shell Nanoparticles to LSPR Sensors (IIS, The Univ. of Tokyo) ○SHINJO, Naoaki; KAWAWAKI, Tokuhisa; TATSUMA, Tetsu
2B4-48 Development of optical biosensor based on photonic crystal using liquid phase deposition (Sch. Eng., Osaka Pref. Univ.) ○AONO, Keigo; AKI, Shoma; ENDO, Tatsuro; SUEYOSHI, Kenji; HISAMOTO, Hideaki

Saturday, March 28, AM

Environmental / MS

Chair: OTSUKA, Koji (9 : 40 ~ 10 : 30)

- * 9:30-9:40: interval for laptop PC connection.(3B4-05, 3B4-06, 3B4-07, 3B4-08)
3B4-05 VOC-Adsorption and Desorption Properties of Charcoal Prepared from Biomass (Fac. Sci., Kanagawa Univ.) ○INOMATA, Naoya; SHIRAIISHI, Takuto; OKABE, Toshihiro; TSUGOSHI, Takahisa; NISHIMOTO, Yuko
3B4-06 Quantification of radioactive strontium-90 in freshwater samples using the functionalized "cascade" system of inductively coupled plasma-mass spectrometry (Fac. Symb. Sys. Sci., Fukushima Univ.) ○MATSUEDA, Makoto; FURUKAWA, Makoto; KAMEO, Yutaka; SUZUKI, Katsuhiko; TAKAGAI, Yoshitaka
3B4-07 Enhanced measurement of CsI cluster ions by MALDI-MS using sugar alcohols (Sch. Eng., Tohoku Univ.) ○MOCHIZUKI, Shunsuke
3B4-08* Soft ionization mass spectrometry for coordination compounds and an effective compositional formula determination method (Kagawa Sch. Pharm. Sci., Tokushima Bunri Univ.) ○OHARA, Kazuaki; YAMAGUCHI, Kentaro

Electrophoresis

Chair: OKADA, Tetsuo (10 : 40~11 : 40)

- * 10:30-10:40: interval for laptop PC connection.(3B4-11, 3B4-13, 3B4-14, 3B4-15, 3B4-16)
3B4-11* Two-dimensional Digital Electrophoresis of Proteins using Multi-layered Hydrogels (Grad. Sch. Eng., Osaka Pref. Univ.) ○SUEYOSHI, Kenji; KANAOKA, Tadamasu; MATSUDA, Keita; ENDO, Tatsuro; HISAMOTO, Hideaki
3B4-13 Electrophoresis of native basic proteins using supramolecular hydrogel (Grad. Sch. Sci., Shizuoka Univ.) ○HASE, Takayuki; YAMANAKA, Masamichi
3B4-14 Electrophoresis of DNAs using of supramolecular hydrogel (Grad. Sch. Sci., Shizuoka Univ.) ○TAZAWA, Shohei; OYOSHI, Takanori; YAMANAKA, Masamichi
3B4-15 Development of a quantitative method of methylated DNA molecule at a single molecule level by nanochannel (Grad. Sch. Eng., Nagoya Univ.) ○SUN, Xiaoyin; YASUI, Takao; RAHONG, Sakon; YANAGIDA, Takeshi; KAJI, Noritada; KANAI, Masaki; NAGASHIMA, Kazuki; KAWAI, Tomoji; BABA, Yoshinobu
3B4-16 Automated quantification of iPS cell-related proteins by ELISA using capillary electrophoresis apparatus (Grad. Sch. Eng., Osaka Pref. Univ.) ○KATO, Tomoko; IZUMOTO, Kentaro; SUEYOSHI, Kenji; ENDO, Tatsuro; HISAMOTO, Hideaki

Saturday, March 28, PM

Extraction, Supramolecular Sensor

Chair: SHIBUKAWA, Masami (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(3B4-26, 3B4-28, 3B4-29, 3B4-30, 3B4-31)
3B4-26* Crown ether bearing 8-quinolinol chromophores: cooperative ionic liquid extraction system and luminescence property (NSED, JAEA) ○SHIMOJO, Kojiro; OKAMURA, Hiroyuki; IMURA, Hisanori; NAGANAWA, Hirochika
3B4-28 Design and Function of Fluorine Introduced Boronic Acid Fluorophore/Cyclodextrin Complex for Selective Sugar Recognition (Fac. Sci., Sophia Univ.) ○SUGITA, Ko; TSUCHIDO, Yuji; HASHIMOTO, Takeshi; HAYASHITA, Takashi
3B4-29 Development of Saccharide Recognition Material Based on Boronic Acid Fluorophore/Cyclodextrin Complex Gel (Fac. Sci., Sophia Univ.) ○SUZUKI, Takahito; YAMADA, Taiji; HASHIMOTO, Takeshi; HAYASHITA, Takashi
3B4-30 TRDP with two-phase system of micelle aqueous solvents and its application to separation technology (Grad. Sch. Eng., Doshisha Univ.) ○MANAI, Junki; UNESAKI, Katsuya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
3B4-31 Development of Phenylboronic Acid/Dendrimer Complexes for Bacteria Detection in Water (Fac. Sci., Sophia Univ.) ○HORIUCHI, Ryosuke; TSUCHIDO, Yuji; KOBAYASHI, Hiroyuki; HASHIMOTO, Takeshi; HAYASHITA, Takashi

Chair: IKI, Nobuhiko (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(3B4-33, 3B4-34, 3B4-35, 3B4-36, 3B4-37, 3B4-38)
3B4-33 Development of Dipicolylamine/Dendrimer Complexes for Bacteria Detection in Water (Fac. Sci., Sophia Univ.) ○KASAI, Yuna; KOBAYASHI, Hiroyuki; TSUCHIDO, Yuji; HASHIMOTO, Takeshi; HAYASHITA, Takashi
3B4-34 TRDP with two-phase system of fluoro/hydro-carbon organic solvents and its application to separation technology (Grad. Sch. Eng., Doshisha Univ.) ○SATAKE, Takaaki; TSUKAGOSHI, Kazuhiko; HASHIMOTO, Masahiko
3B4-35 Substituent Effect on Recognition of Phosphate Derivatives by Dipicolylamine Chromogenic Probe/Cyclodextrin Complex Sensor. (Fac. Sci., Sophia Univ.) ○MINAGAWA, Shohei; KOSHINO, Anna; UEMURA, Takuya; HASHIMOTO, Takeshi; HAYASHITA, Takashi
3B4-36 Development of Dipicolylamine Fluorescent Probes Possessing Selective Ion Recognition Function (Fac. Sci., Sophia Univ.) ○TORII, Yasuko; SAWADA, Maki; FUJIWARA, Shoji; HASHIMOTO, Takeshi; HAYASHITA, Takashi
3B4-37 Design and Function of Supramolecular Dipicolylamine-modified Cyclodextrin Complexes (Fac. Sci., Sophia Univ.) ○YAMADA, Tatsuru; FUJIWARA, Shoji; KOBAYASHI, Hiroyuki; HASHIMOTO, Takeshi; HAYASHITA, Takashi
3B4-38 TRDP creation with two phase system of ionic liquid aqueous solvents and its application to separation technology (Grad. Sch. Eng., Doshisha Univ.) ○NAGATANI, Kosuke; TSUKAGOSHI, Kazuhiko; HASHIMOTO, Masahiko

Chair: HASHIMOTO, Masahiko (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(3B4-40, 3B4-42, 3B4-44, 3B4-45)
3B4-40* Development of Boronic Acid-Functionalized Squarylium Cyanine Dyes for Multiple Discriminant Analysis of Sialic Acid in Biological Samples (Grad. Sch. Sci., Eng., Saitama Univ.) ○OUCHI, Kazuki; SAITO, Shingo; MAEDA, Takeshi; NAKAZUMI, Hiroyuki; COLYER, Christa L.; SHIBUKAWA, Masami
3B4-42* Saccharide Recognition by using Phenylboronic Acid/Dendrimer Complex (Fac. Sci., Sophia Univ.) ○TSUCHIDO, Yuji; SAKAI, Yuuki; AIMU, Keisuke; HASHIMOTO, Takeshi; HAYASHITA, Takashi
3B4-44 Recovery of Rare Earth Metals Using Silica Gel Chemically Modified with 2-Thenoyltrifluoroacetone Derivative (Fac. Sys. Eng., Wakayama Univ.) ○IWAHASHI, Kasumi; YAJIMA, Setsuko; KIMURA, Keiichi
3B4-45 Fluorescence Property of Calix[4]arene Derivatives Bearing One Benzofurazan and Three Ethyl-Ester Moieties (Fac. Sys. Eng., Wakayama Univ.) ○FURUNO, Yuta; NAKAHARA, Yoshio; IWAMOTO, Hitoshi; KIMURA, Keiichi

Chromatography, Analytical Reagent & Material

Chair: HAYASHITA, Takashi (16 : 40~17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(3B4-47, 3B4-48, 3B4-49, 3B4-50, 3B4-51, 3B4-52)
3B4-47 Development of TRDC using PTFE capillary tube and effects of additives on its separation performance (Grad. Sch. Eng., Doshisha Univ.) ○KAN, Hyo; KOBAYASHI, Tomoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
3B4-48 Development of capillary chromatography by taking advantage of a slug flow in a microspace (Grad. Sch. Eng., Doshisha Univ.) ○MURAKAMI, Shunpei; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
3B4-49 Effects of additives on TRDC with two-phase system of water-acetonitrile-ethyl acetate solvents (Grad. Sch. Eng., Doshisha Univ.) ○KAWAKAMI, Takuya; SHIMADA, Youta; MANAI, Jyunki; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
3B4-50 Development of a Thermo-Responsive Molecularly Imprinted Polymer for the Selective Binding/Release of Methotrexate. 3 (Grad. Sch. Eng., Kyoto Univ.) ○KOTERASAWA, Katsuki; NAITO, Toyohiro; KUBO, Takuya; OTSUKA, Koji
3B4-51 Luminescent Switching of Lanthanide Coordination Polymer Constructed with a Tripodal Schiff Base Ligand (Grad. Sch. Environmental Studies, Tohoku Univ.) ○MATSUBARA, Nozomi; KARASHIMADA, Ryunosuke; MASUYA, Atsuko; HOSHINO, Hitoshi; IKI, Nobuhiko
3B4-52 Isotope Effects and Adsorption of Calcium Ions in Crown Ether Resin (RLNR, Tokyo Tech) ○OKUMURA, Shin; FUJII, Yasuhiko; OZAWA, Masaki; UMEHARA, Saori

Room B5

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Resources Utilization Chemistry

Friday, March 27, AM

Chair: NAKATA, Kazuya (9 : 00 ~ 9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(2B5-01, 2B5-02, 2B5-04)
- 2B5-01** Dependence of Solution and Solid State Properties of Alkylated Coal-Tar-Pitch on Alkyl-Chain (Grad. Sch. Sci. Eng., Chuo Univ.; Fac. Sci. Eng., Chuo Univ.) ○FUJIMOTO, Sho; FUKUDA, Takeshi; YAMAGATA, Ken-ichi; YAMASHITA, Makoto
- 2B5-02*** investigation of Gas Clean up System of coal gasification gas (Osaki Cool gen Mechanical Engineering) ○KAGE, Susumu
- 2B5-04*** Pressurized microwave synthesis of fatty acid methyl ester by PbO₂ catalyst (Fac. Eng., Sojo Univ.) ○IKEANAGA, Kazutoshi; INOUE, Takahiro; HAMADA, Ayaka

Chair: OGATA, Hironori (10 : 00 ~ 11 : 00)

- * 9:50-10:00: interval for laptop PC connection.(2B5-07, 2B5-08, 2B5-09, 2B5-11, 2B5-12)
- 2B5-07** Generation of useful sugars by photocatalytic decomposition of cellobiose (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○YAMAMOTO, Yasuhiro; NAKATA, Kazuya; YOSHIMI, Youji; TERASHIMA, Chiaki; ABE, Masahiko; SAKAGUTI, Kengo; IKEKITA, Masahiko; FUJISHIMA, Akira
- 2B5-08** One-step catalytic conversion of ethanol into 1,3-butadiene using MgO-SiO₂ with talc structure (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○SEKIGUCHI, Yasumasa; KOYAMA, To-ru; MIYAJI, Akimitsu; MOTOKURA, Ken; BABA, Toshihide
- 2B5-09*** Glucose transformation reaction to 5-hydroxymethylfurfural in acidic aqueous and ionic liquid solvents (Grad. Sch. Sci., Nagoya Univ.) ○Arifin; PURIPAT, Maneeporn; PARASUK, Vudhichai; YOKOGAWA, Daisuke; IRLE, Stephan
- 2B5-11** Design of ionic liquids to dissolve chitin under mild condition (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SHIMO, Mizuki; ABE, Mitsuru; OHNO, Hiroyuki
- 2B5-12** Design of hydrophobic ionic liquids which dissolve cellulose: effect of alkyl chain length (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SATO, Daiki; ABE, Mitsuru; KURODA, Kosuke; KUNIMURA, Haruhito; OHNO, Hiroyuki

Chair: ABE, Mitsuru (11 : 10 ~ 12 : 10)

- * 11:00-11:10: interval for laptop PC connection.(2B5-14, 2B5-15, 2B5-17, 2B5-18, 2B5-19)
- 2B5-14** Synthesis of Furfurylamine from Furfural using Solid Catalyst (Sch. Mat. Sci., JAIST) ○MIZUHORI, Kunihiko; EBITANI, Kohki
- 2B5-15*** Development of functional materials using lignin biomass 2-pyrone-4,6-dicarboxylic acid (Hosei Univ. Graduate School of Sci. and Engin.; FFPRI) ○OGATA, Hironori; OTSUKA, Yuichiro; NAKAMURA, Masaya
- 2B5-17** Structures and physical properties of the charge-transfer complexes based on 2-pyrone-4,6-dicarboxylic acid (I) (Hosei Univ. Graduate school of science and engineering; FFPRI) ○KUWANA, Yoshiaki; TAKAHASHI, Rie; HIRUKO, Kaino; GAGABE, Gene; MIZOGUCHI, Yuji; OTSUKA, Yuichiro; NAKAMURA, Yuya; OGATA, Hironori
- 2B5-18** Structures and physical properties of the charge-transfer complexes based on 2-pyrone-4,6-dicarboxylic acid (II) (Hosei Univ. Graduate School of Science and Engineering; FFPRI) ○TAKAHASHI, Rie; KUWANA, Yoshiaki; HIRUKO, Kaino; GAGABE, Gene; OTSUKA, Yuichiro; NAKAMURA, Masaya; OGATA, Hironori
- 2B5-19** Synthesis and properties of the complexes based on 2-pyrone-4,6-dicarboxylic acid derivatives (Hosei Univ. Graduate School of Science and Engineering; FFPRI) ○HIRUKO, Kaino; KUWANA, Yoshiaki; TAKAHASHI, Rie; INOUE, Kazumi; OTSUKA, Yuichiro; NAKAMURA, Masaya; OGATA, Hironori

Friday, March 27, PM

Chair: KAMEDA, Tomohito (14 : 30 ~ 15 : 10)

- * 14:20-14:30: interval for laptop PC connection.(2B5-34, 2B5-36, 2B5-37)
- 2B5-34*** Coloration of polyamide fibers using glycerol oxides (Osaka Municipal Technical Research Institute) ○OHE, Takeru; YOSHIMURA, Yurika; NAKAI, Takeo
- 2B5-36** Degradation of nylon-6 in the presence of DBU in subcritical H₂O. (Teikyo Univ. Faculty of Science and Engineering) ○YANAGIHARA, Naohisa; HIRATA, Kouta; SHII, Kazuki; ENMOT, Shiho; ENOMOTO, Hirohumi
- 2B5-37** A Novel Method for Chemical Recycling of Waste Plastics by Utilizing Polyolefin-derived Hydrogen (MURORAN INST. OF TECH.) ○SHINOHARA, Takuma; KATSUKURA, Yohei; KANDA, Yasuharu;

UEMICHI, Yoshio

Chair: YANAGIHARA, Naohisa (15 : 20 ~ 15 : 50)

- * 15:10-15:20: interval for laptop PC connection.(2B5-39, 2B5-40, 2B5-41)
- 2B5-39** Chemical recycling of tarpaulins consisting of poly(ethylene terephthalate) and poly(vinyl chloride) (Grad. Sch. Environmental Studies, Tohoku Univ.) ○HIRAHASHI, Suguru; KUMAGAI, Shogo; GRAUSE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 2B5-40** Chemical modification of chlorinated poly(vinyl chloride) using cysteine as a nucleophiles (Grad. Sch. Environmental Studies, Tohoku Univ.) ○ENDO, Shuji; GRAUSE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 2B5-41** Generation behavior of nitrogen compounds during the thermal degradation of polyimide film in the presence of steam. (Grad. Sch. Environmental Studies, Tohoku Univ.) ○HOSAKA, Tomoyuki; KUMAGAI, Shogo; GRAUSE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki

Environmental and Green Chemistry

Saturday, March 28, AM

Chair: KUTSUNA, Shuzo (9 : 10 ~ 9 : 40)

- * 9:00-9:10: interval for laptop PC connection.(3B5-02)
- 3B5-02** CSJ Award for Young Chemists in Technical Development Development of Novel Sugar Production Processes from Non-edible Biomass by Using Membrane and Enzyme Technologies (Toray Industries, Inc. New Frontiers Research Laboratories) ○KURIHARA, Hiroyuki; MINAMINO, Atsushi; FUNADA, Shigeyuki

Saturday, March 28, PM

Chair: WADA, Tohru (13 : 00 ~ 14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(3B5-25, 3B5-27, 3B5-29, 3B5-30)
- 3B5-25**** Photoelectrochemical properties of Ni₃S₄ nanoparticle as a hydrogen evolution cocatalyst for visible light-driven water splitting (Grad. Sch. Sci., Kyoto Univ.) ○KIM, Sungwon; YOSHIZUMI, Toshihiro; SAKAMOTO, Masanori; TERANISHI, Toshiharu
- 3B5-27*** Photocatalytic activities of transition metal oxide nanoparticles for water oxidation (ICR, Kyoto Univ.) ○YOSHIZUMI, Toshihiro; SAKAMOTO, Masanori; TERANISHI, Toshiharu
- 3B5-29** Photocatalytic Hydrogen Production of Ortho-Methylated Tetranuclear Palladium(II) Complexes (Fac. Sci., Kanagawa Univ.) ○YAN, Yinnan; KAWAMOTO, Tatsuya
- 3B5-30** Visible Light-Driven Hydrogen Production from Water by Non-Innocent-Type and Schiff Base Nickel Complexes (Fac. Sci., Kanagawa Univ.; Fac. Sci. Eng., Shimane Univ.) ○INOUE, Satoshi; KATAOKA, Yusuke; HANDA, Makoto; KAWAMOTO, Tatsuya

Chair: KAWAMOTO, Tatsuya (14 : 10 ~ 15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(3B5-32, 3B5-33, 3B5-34, 3B5-35, 3B5-36, 3B5-37)
- 3B5-32*** Hierarchical Nanowire Arrays Based on Carbon Nanotubes and Co₃O₄ decorated ZnO Composite for Enhanced Photoelectrochemical Water Splitting (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.; MANA, NIMS) ○LI, Mu; YE, Jinhua
- 3B5-33** Photocatalytic complete oxidative decomposition of acetaldehyde over WO₃ mixed with plant ash under visible light irradiation (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○YAMAGUCHI, Yuichi; NAKATA, Kazuya; TERASHIMA, Chiaki; SAKAI, Kenichi; SAKAI, Hideki; FUJISHIMA, Akira
- 3B5-34** Development of a Recycling-type Advanced Oxidation Process for Chemical Modification and Decomposition of Phenol Solutions. (Fac. Sci., Toho Univ.) ○KAMOGAWA, Keiji; OHHIRA, Hirotaka; FUKUSHIMA, Tomoyuki; OHSHIMA, Shigeru
- 3B5-35*** Photocatalytic CO₂ conversion over alkali modified TiO₂ without loading noble metal cocatalyst (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○MENG, Xianguang; YE, Jinhua
- 3B5-36*** BiO(ClBr)_{(1-x)2x} solid solutions with controllable band gap engineering as efficient visible-light photocatalysts for isopropanol degradation (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○LIU, Guigao; WANG, Tao; KAKO, Tetsuya; YE, Jinhua
- 3B5-37*** Hematite Films Decorated with Nanostructured Ferric Oxyhydroxide as Photoanodes for Efficient and Stable Photoelectrochemical Water Splitting (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○YU, Qing; YE, Jinhua

Chair: OHSHIMA, Shigeru (15 : 20 ~ 16 : 10)

- * 15:10-15:20: interval for laptop PC connection.(3B5-39, 3B5-41, 3B5-42, 3B5-43)
- 3B5-39**** Efficient decomposition of perfluorinated ionic liquid anions using subcritical and supercritical water (Fac. Sci., Kanagawa Univ.) ○HORI, Hisao; TAKAHASHI, Akihiro; NODA, Yoshinari; SAKAMOTO, Takehiko
- 3B5-41** Development of environmental-benign ionic liquids with dissolution ability of cellulose (Kagawa Univ. Graduate School of Education)

○YASUI, Masaki; TAKAGI, Yumiko

3B5-42* Task Specific Ionic Liquids as Solvent for Efficient CO₂ Capture (RITE) ○CHOWDHURY, Firoz; KATO, Tsuguhiro

3B5-43 Synthesis and evaluation of silver nanoparticles based on green materials and methods (KANKYO RESILIENCE CO.,LTD; Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○NAGASAWA, Hiroshi; GOTO, Akiho; SEIKE, Ryuta; AMEMIYA, Takashi; ITOH, Kiminori

Chair: HORI, Hisao (16 : 20~16 : 50)

* 16:10-16:20: interval for laptop PC connection.(3B5-45, 3B5-47)

3B5-45* Chemospecificity of separation process on microwave assisted extraction and distillation (Grad. Sch. Life Sci. Sys. Eng., KIT) ○IWAHASHI, Nobuyuki; WATANABE, Akira; HRAGUCHI, Shunichi; ABE, Makiko; OHUCHI, Shokichi

3B5-47 Hazardous risk analysis of phenyl Isocyanate using small scale Dewar vessel (Coll. Industrial Tech., Nihon Univ.) ○MATSUMOTO, Youichi; YOSHINO, Satoru; KOMORIYA, Tomoe; SAKAMOTO, Keiichi

Sunday, March 29, AM

Chair: OKITSU, Kenji (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4B5-01, 4B5-02, 4B5-04, 4B5-06)

4B5-01 Generation Mechanism of Odorous Compounds from Urine in a Restroom (TOTO LTD. Analytical Laboratory Research Institute)

○YAMAMOTO, Masahiro; IKEDA, Mai; ITAMI, Aiko

4B5-02** A new chemiluminescence method for the measurement of chemical oxygen demand (Grad. Sch. Eng., Osaka Pref. Univ.) ○DO, Thi Kim Hue; TAKENAKA, Norimichi

4B5-04** Measurement of gaseous nitrous acid by surface modified air-dragged aqua-membrane-type denuder and fluorescence detector (Grad. Sch. Eng., Osaka Pref. Univ.) ○TRINH, Ha Thai; TAKENAKA, Norimichi

4B5-06 Consideration on the area correlativity of atmospheric aerosol (Osaka City Inst. Public. Health & Env. Sci.) ○FUNASAKA, Kunihiro

Chair: YAHIRO, Hidenori (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4B5-08, 4B5-10, 4B5-11, 4B5-12)

4B5-08** Adsorption of Cd(II) and Cu(II) Ions from Aqueous Solution by Dendritic Chitosan/Magnetite Micro Particle (Grad. Sch. Env. Sci., Hokkaido Univ.) ○SAKTI, Satya Candra Wibawa; NARITA, Yasuyuki; TANAKA, Shuniz

4B5-10 TEM analysis of the structural properties of ferrocyanide nanoparticles used for disposal of high-level nuclear radioactive wastes (Grad. Sch. Eng., Nagoya Univ.) MASUDA, Hideki; INABA, Yusuke; TAKAHASHI, Hideharu; TAKESHITA, Kenji; ○ONOE, Jun

4B5-11 Decomposition of new perfluorochemical surfactants bearing organic cations in subcritical water (Fac. Sci., Kanagawa Univ.) ○YOKOTA, Hiroaki; HORI, Hisao

4B5-12* Sonochemical degradation of aromatic compounds in water: effect of inorganic salts (Grad. Sch. Eng., Osaka Pref. Univ.) ○OKITSU, Kenji; UDDIN, Helal

Chair: TAKENAKA, Norimichi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4B5-15, 4B5-16, 4B5-18, 4B5-19)

4B5-15 Effect of intrinsic properties of activated carbons on mercury adsorption ability (Grad. Sch. Sci., Eng., Ehime Univ.) ○TACHIBANA, Kaoru; KARAGIANNI, Eleutheria; YAMAURA, Hiroyuki; YAHIRO, Hidenori; IKUSHIMA, Masataka; IKUSHIMA, Yoshihiro

4B5-16* Final storage of radioactive cesium by the hydrothermal synthesis of pollucite from clay or natural zeolites(3) (Nat. Def. Acad. Department of Applied Chemistry) ○YOKOMORI, Yoshinobu; ASATSUKI, Kazuhito; MOCHIMARU, Riho; ARUGA, Atsushi; KAMIYA, Natsumi; NISHI, Koji

4B5-18 Changes in the Electrochemical Potential of the Pt Electrode in Catalytic hydrogenation of Nitrate in Water Using a Pd-Cu/Al₂O₃ Catalyst and H₂ Bubbles. (RIEMT, AIST) ○NAKAYAMA, Norio; TAKAHASHI, Masayoshi

4B5-19* Photo-Induced Water Purification and Seawater Desalination using Azobenzene-Modified Anodized Alumina Membrane (UBIQEN, AIST; Fac. Eng., OIT) ○FUJIWARA, Masahiro; IMURA, Tatsuki

Room B6

Bldg.14 1456

Theoretical Chemistry, Cheminformatics, and Computational Chemistry

Thursday, March 26, PM

Chemical Reaction

Chair: TOYOTA, Kazuo (13 : 10~14 : 10)

* 13:00-13:10: interval for laptop PC connection.(1B6-26, 1B6-27, 1B6-28, 1B6-29, 1B6-30, 1B6-31)

1B6-26 Electronic structure calculation of Barium Oxide molecule with double beta decay experiment (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) ○WATANABE, Saki; ABE, Minoru; GEETHA, Gopakumar; HADA, Masahiko

1B6-27 Theoretical study of isotope fractionation in chemical equilibrium in metal complex systems (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.; CREST, JST; Institut de Physique du Globe de Paris; RLNR, Tokyo Tech) ○ASAI, Kurumi; KATO, Chizu; ABE, Minoru; HADA, Masahiko; FUJII, Yasuhiko

1B6-28 Theoretical study of intermolecular proton transfer used the diabatic potential (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○HORI, Yuta; IDA, Tomonori; MIZUNO, Motohiro

1B6-29 A Theoretical Study on a Regioselective C-H Borylation Reaction Catalyzed by a Silica-Supported Monophosphine-Ir Complex: A GRRM/SC-AFIR Study (Fac. Sci., Hokkaido Univ.) ○GAO, Min; MAEDA, Satoshi; MURAKAMI, Ryo; IWAI, Tomohiro; SAWAMURA, Masaya; TAKETSUGU, Tetsuya

1B6-30 Theoretical study on dissociative adsorption of hydrogen fluoride molecule at hydrofluoric acid/Si(111) interface using first-principles Metadynamics simulations (Grad. Sch. Eng., Osaka Univ.) ○KANAMORI, Hitomi; MORIKAWA, Yoshitada; INAGAKI, Kouji; KIZAKI, Hidetoshi; HAMAMOTO, Yuuji

1B6-31 First-principles calculations of formic acid decomposition reaction on Cu (111) (Grad. Sch. Eng., Osaka Univ.) ○TORII, Shiro; FAHDZI, Muttaqien; HAMAMOTO, Yuji; KIZAKI, Hidetoshi; INAGAKI, Kouji; MORIKAWA, Yoshitada

Dynamics

Chair: KAWAI, Shinnosuke (16 : 00~16 : 50)

* 15:50-16:00: interval for laptop PC connection.(1B6-43, 1B6-45, 1B6-47)

1B6-43* Contribution of optically dark $n\pi^*$ states to ultrafast nonradiative transitions in photoexcited pyrazine (Grad. Sch. Sci., Tohoku Univ.) ○KANNO, Manabu; KONO, Hirohiko; KOSEKI, Shiro; SHIMAKURA, Noriyuki; FUJIMURA, Yuichi

1B6-45* Light-induced transient current in quasi-one-dimensional nanostructure (Coll. Sci. Tech., Nihon Univ.) ○SAKO, Tokuei; ISHIDA, Hiroshi

1B6-47 Adiabatic Quantum Computing on Molecular Spin Quantum Computers (Grad. Sch. Sci., Osaka City Univ.) ○YAMAMOTO, Satoru; NAKAZAWA, Shigeaki; SUGISAKI, Kenji; SATO, Kazunobu; TOYOTA, Kazuo; SHIOMI, Daisuke; TAKUI, Takeji

Chair: SAKO, Tokuei (17 : 00~17 : 40)

* 16:50-17:00: interval for laptop PC connection.(1B6-49, 1B6-50, 1B6-52)

1B6-49 Dynamics and transition states of the strand break process in DNA models (Sch. Sci., Tohoku Univ.; IMRAM, Tohoku Univ.) ○HISHINUMA, Naoki; KANNO, Manabu; KINO, Yasushi; AKIYAMA, Kimio; KONO, Hirohiko

1B6-50* Environmental Dynamics in the Diffusion of Metal Ions in Water (Fac. Sci., Shizuoka Univ.) ○KAWAI, Shinnosuke; TANAKA, Akinori; KUNI, Mikako; SEKINE, Rika

Mathematical Chemistry

1B6-52 Mean field theory of Potts model in condensed molecular systems with conformation-modulated interactions: conformational energy and order of the phase transition (Grad. Sch. Eng., Tottori Univ.) ○HAYASE, Shuichi; NOKAMI, Toshiki; ITOH, Toshiyuki

Saturday, March 28, PM

Materials

Chair: ABE, Minoru (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(3B6-25, 3B6-26, 3B6-28, 3B6-29, 3B6-30)

3B6-25 Theoretical studies on the mechanism of alkali carbonate loaded on aluminosilicate catalysts for soot combustion (Fac. Eng., The Univ. of

- Tokyo) ○IMAMURA, Tomoshi; USHIYAMA, Hiroshi; YAMASHITA, Koichi
- 3B6-26*** Mechanochemical reaction of ozone oxidized polyisoprene by first-principles molecular dynamics simulation (Grad. Sch. Eng., Tohoku Univ.; PRESTO, JST) ○HIGUCHI, Yuji; OZAWA, Nobuki; SATO, Hirokazu; KUBO, Momoji
- 3B6-28** Theoretical Studies of Structural and Electronic Properties of $\text{BaTa}_{1-x}\text{Nb}_x\text{O}_2\text{N}$ (Fac. Eng., The Univ. of Tokyo) ○IRIGUCHI, Hiroki; GIORGI, Giacomo; YAMASHITA, Koichi
- 3B6-29** Vibronic Coupling Density Analysis for the Reorganization Energy in Rubrene (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.) ○SUDA, Shota; SATO, Tohru; TANAKA, Kazuyoshi
- 3B6-30** The theoretical studies on the intercalation mechanism of Li ions in Ti_2C ; anode material for Li-ion batteries (Fac. Eng., The Univ. of Tokyo) ○KURAHASHI, Shunsuke; USHIYAMA, Hiroshi; YAMASHITA, Koichi

Chair: YOKOJIMA, Satoshi (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(3B6-32, 3B6-34, 3B6-35, 3B6-36, 3B6-37)

- 3B6-32*** The analysis of the lithium-ion distribution in and near the graphite electrode of Lithium-ion batteries (Grad. Sch. Eng., Kyoto Univ.) ○KASAHARA, Kento; KASAHARA, Kento
- 3B6-34** The research about interface molecules of diketopyrrolopyrrole and PCBM based organic solar cells. (Fac. Eng., The Univ. of Tokyo) ○HATAMIYA, Shintaro; FUJII, Mikiya; YAMASHITA, Koichi

Simulation

- 3B6-35** Theoretical Study of Morphology and Power Conversion Efficiency of Organic Photovoltaics (Grad. Sch. Eng., The Univ. of Tokyo) ○KAWASHIMA, Eisuke; FUJII, Mikiya; YAMASHITA, Koichi
- 3B6-36** The theoretical analysis of CO_2 fixation reaction by quaternaryammonium hydroxide catalyst. (CRC, Hokkaido Univ.) ○OHBO, Masaki; NKAYAMA, Akira; EMA, Tadashi; HASEGAWA, Jun-ya
- 3B6-37** Structural Investigation of Ionic Liquid/Solid Interfaces Using Classical Molecular Dynamics Simulation (Grad. Sch. Eng. Sci., Osaka Univ.) ○MIYAMOTO, Hiroo; YOKOTA, Yasuyuki; IMANISHI, Akihito; INAGAKI, Kouji; MORIKAWA, Yoshitada; FUKUI, Ken-ichi

Chair: TAKETSUGU, Tetsuya (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(3B6-39, 3B6-41, 3B6-43)
- 3B6-39*** Microscopic additive effect of fluoroethylene carbonate on solid electrolyte interphase (SEI) film formation in sodium-ion battery (Kyoto Univ. ESICB; Grad. Sch. Info. Sci., Nagoya Univ.; CREST, JST) ○TAKENAKA, Norio; SAKAI, Hirofumi; SUZUKI, Yuichi; UPPULA, Purushotham; NAGAOKA, Masataka
- 3B6-41*** Density-Functional Tight-Binding Combined with the Fragment Molecular Orbital Method (Grad. Sch. Sci., Nagoya Univ.; NRI, AIST) ○NISHIMOTO, Yoshio; FEDOROV, Dmitri; IRLE, Stephan
- 3B6-43*** Elucidation of the Solvent Extraction Mechanism by Molecular Dynamics Simulations ~Solvent Extraction of Alkali Metal Ions by Crown Ethers~ (Grad. Sch. Sci. Technol., Shizuoka Univ.) ○NAKAGAMI, Yuto; SEKINE, Rika

Chemical Reaction

Chair: NAKAI, Hiromi (16 : 30~17 : 00)

- * 16:20-16:30: interval for laptop PC connection.(3B6-46)
- 3B6-46** Young Scholar Lectures of CSJ Theoretical Understanding of Chemical Reactions in Condensed Phases with Explicit Inclusion of Fluctuation Effects (Univ. of Ryukyus Department of Chemistry, Biology and Marine Science) ○HIGASHI, Masahiro

Sunday, March 29, AM

Simulation

Chair: FUJII, Mikiya (9 : 40 ~ 10 : 20)

- * 9:30-9:40: interval for laptop PC connection.(4B6-05, 4B6-06, 4B6-07)
- 4B6-05** Theoretical study on molecular self-assembly using coarse-grained model and molecular simulation (Sch. Eng., Kyoto Univ.) ○YOSHIDA, Yuichiro; SATO, Hirofumi
- 4B6-06** Improvement of the SAAP force field and its application to molecular simulation of short peptides (Sch. Sci., Tokai Univ.) ○SUZUKI, Toshiki; SHIMOSATO, Taku; BABE, Natsuki; MINEZAKI, Toshiya; IWAOKA, Michio
- 4B6-07*** On methods for calculating the free energy profile of the antigen-antibody dissociation process (RCAST, The Univ. of Tokyo) ○YAMASHITA, Takefumi

Bio-related

Chair: HIGASHI, Masahiro (10 : 30~11 : 30)

- * 10:20-10:30: interval for laptop PC connection.(4B6-10, 4B6-11, 4B6-12, 4B6-14)

- 4B6-10** Benchmark for new fragmentation breaking peptide bonds (Grad. Sch. Sci., Rikkyo Univ.) ○SAKAGUCHI, Masataka; FUKUZAWA, Kaori; WATANABE, Chizuru; MOCHIZUKI, Yuji
- 4B6-11** Application of FMO method for structure-based drug design (Nihon Univ. School of dentistry at Matsudo) ○FUKUZAWA, Kaori; WATANABE, Chiduru; OKIYAMA, Yoshio; WATANABE, Hirofumi; HONMA, Teruki; MOCHIZUKI, Yuji; TANAKA, Shigenori
- 4B6-12*** Prediction of Vibration Spectroscopy for Large Biological Molecules Based on Quantum Chemistry. (Sch. Biosci. Biotech., Tokyo Tech) ○NAKATA, Hiroya; FEDOROV, Dmitri; KITAURA, Kazuo; NAKAMURA, Shinichiro
- 4B6-14*** Computing redox potential by long-range corrected density functional theory (RIKEN AICS) ○MATSUI, Toru; SONG, Jong-won; HIRAO, Kimihiko; NAKAJIMA, Takahito

Sunday, March 29, PM

Electronic Structure

Chair: TORII, Hajime (13 : 00~13 : 30)

- * 12:50-13:00: interval for laptop PC connection.(4B6-25)
- 4B6-25** CSJ Award for Young Chemists Development of Multireference Electronic-structure Methods and Application to Multinuclear Complexes and Metalloenzymes (TCMS, IMS) ○KURASHIGE, Yuki

Chair: KURASHIGE, Yuki (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(4B6-29, 4B6-30, 4B6-31, 4B6-32, 4B6-34)
- 4B6-29** Epoxidation Reaction of Olefin with Iron-Oxo Porphyrin complex: Intersystem crossing from quartet to sextet state (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.; CREST, JST; Grad. Sch. Human. Sci., Nara Women's Univ.) ○UKAJI, Kasumi; ABE, Minoru; FUJII, Hiroshi; HADA, Masahiko
- 4B6-30** Improvement of the Parameter Set for Representing the Hydration-Induced Vibrational Frequency Shifts of the Peptide Group (Fac. Edu., Shizuoka Univ.) ○TORII, Hajime
- 4B6-31** Quantum Chemical Investigation of Covalent Organic Frameworks (Grad. Sch. Sci., Nagoya Univ.) ○HAYASHI, Taku; IRLE, Stephan
- 4B6-32*** Novel relativistic open-shell wavefunction based on time-reversal symmetry: KUHF method (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○NAKANO, Masahiko; SEINO, Junji; NAKAI, Hiromi
- 4B6-34** The natural orbital-based Pederson-Khanna (NOB-PK) calculations of the spin-orbit term of zero-field splitting tensors (Grad. Sch. Sci., Osaka City Univ.) ○SUGISAKI, Kenji; TOYOTA, Kazuo; SATO, Kazunobu; SHIOMI, Daisuke; TAKUI, Takeji

Chair: NOTO, Kaori (14 : 50~15 : 30)

- * 14:40-14:50: interval for laptop PC connection.(4B6-36, 4B6-37, 4B6-38, 4B6-39)
- 4B6-36** Theoretical research on solvatochromic effect for luminescence property of bithiophene derivatives (Sch. Eng., Kyoto Univ.) ○MARUYAMA, Kenta; NAKANO, Hiroshi; SATO, Hirofumi
- 4B6-37** Theoretical study on the excitation spectrum of molecules with solvation effect (Sch. Eng., Jyot Univ.) ○IWAKAWA, Takuya; SATO, Hirofumi
- 4B6-38** Study on the stabilities of multiply charged diiodoacetylene molecular cations formed in intense femtosecond laser fields. (Grad. Sch. Sci., Osaka City Univ.) ○KAWAGUCHI, Takashi; TOYOTA, Kazuo; NAKASHIMA, Nobuaki; YATSUHASHI, Tomoyuki
- 4B6-39** Theoretical Study on the Open-shell Characters and Third-Order Nonlinear Optical Properties of Transition Metal-Carbene Cation Systems (Grad. Sch. Eng. Sci., Osaka Univ.) ○TAKAMUKU, Shota; KITAGAWA, Yasutaka; NAKANO, Masayoshi

Room B7

Bldg.14 1457

Organic Crystals

Thursday, March 26, AM

Crystal Structure

Chair: AKAZOME, Motohiro (9 : 30 ~ 10 : 30)

- * 9:20-9:30: interval for laptop PC connection.(1B7-04, 1B7-05, 1B7-06, 1B7-08)
- 1B7-04*** Absolute Structure Determination of Chiral bis(2,2'-benzimidazole) with Axial and Helical Chirality (Grad. Sch. Eng., The Univ. of Tokyo; ACCEL, JST; Agilent Technologies; CRC, Hokkaido Univ.; Grad. Sch. Eng., Kobe Univ.) ○HOSHINO, Manabu; YOSHIOKA, Shota; SATOW, Takashi; INOKUMA, Yasuhide; FUJITA, Makoto; ARAE, Sachie; TAKAHASHI, Tamotsu; OGASAWARA, Masamichi; OKAYAMA,

Yoichi; MORI, Atsunori

- 1B7-05[#]** Nano-gram Scale Crystalline Sponge Method (Grad. Sch. Eng., The Univ. of Tokyo) ○GAO, Jing; FUJITA, Daishi; HOSHINO, Manabu; SATO, Hiroyasu; INOKUMA, Yasuhide; FUJITA, Makoto
- 1B7-06[#]** The Structure of Endohedral Metallofullerene Sc₂@C₆₆ Having Two Unsaturated Linear Triquinane Units (Dept. of Chem., Tokyo Gakugei Univ.; TARA, Univ. of Tsukuba; FIFC, Kyoto Univ.; Bruker BioSpin K. K.; Dept. of Chem., UC Davis; Sch. of Mat. Sci. Eng., HUST; FAIS) ○SUZUKI, Mitsuaki; YAMADA, Michio; KURIHARA, Hiroki; GUO, Jing-dong; WAELCHLI, Markus; OLMSTEAD, Marilyn M.; BALCH, Alan L.; NAGASE, Shigeru; MAEDA, Yutaka; LU, Xing; HASEGAWA, Tadashi; AKASAKA, Takeshi
- 1B7-08*** Symmetric Properties of Organic Supramolecular Clusters as Analogues of Octa-Coordination Polyhedrons (Grad. Sch. Eng., Osaka Univ.) ○SASAKI, Toshiyuki; IDA, Yoko; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji

Theoretical Calculation and Crystal Growth

Chair: UEKUSA, Hidehiro (10 : 40~11 : 40)

- * 10:30-10:40: interval for laptop PC connection.(1B7-11, 1B7-13, 1B7-15)
- 1B7-11*** Mechanism of laser trapping-induced crystal growth of lysozyme (Instrument Technology Research Center) ○SUGIYAMA, Teruki; TU, Jing-ru; YUYAMA, Ken-ichi; MASUHARA, Hiroshi
- 1B7-13*** Analysis of intermolecular interactions between TTeCl-TTF molecules in crystal by ab initio molecular orbital calculations (NRI, AIST; Grad. Sch. Life Sci., Univ. of Hyogo; ICR, Kyoto Univ.) ○TSUZUKI, Seiji; HIGUCHI, Yoshiki; SATO, Naoki
- 1B7-15*** Theoretical prediction of the crystal structures of polycyclic aromatic molecules: phenacenes (NRI, AIST; Toyohashi Univ. of Tech.) ○NIITSU, Naoyuki; OBATA, Shigeaki; MIURA, Toshiaki; SHIMOI, Yukihito

Thursday, March 26, PM

Design of Molecular Assembly

Chair: TSUE, Hirohito (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(1B7-29, 1B7-30, 1B7-31, 1B7-32, 1B7-33, 1B7-34)
- 1B7-29** Structure and property of pi-stacked assembly of thienyl-substituted octadecahydro[12]annulene (Grad. Sch. Eng., Osaka Univ.) ○HISAKI, Ichiro; OSAKA, Keisuke; TOHNAI, Norimitsu; MIYATA, Mikiji
- 1B7-30** Spatial organization of *peri*-aroylnaphthalene compounds having non-coplanarly accumulated aromatic-ring structure: Crystal structure of nitro group-bearing aroylnaphthalene (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OHISA, Shinji; ○OKAMOTO, Akiko; MOHRI, Saki; YOSHIWAKA, Sayaka; YONEZAWA, Noriyuki
- 1B7-31** Spatial organization of *peri*-aroylnaphthalene compounds having non-coplanarly accumulated aromatic-ring structure: Effects of fluoro atom of the aryl group to the crystal structure (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) MOHRI, Saki; OHISA, Shinji; YOSHIWAKA, Sayaka; OKAMOTO, Akiko; ○YONEZAWA, Noriyuki
- 1B7-32** Synthesis of polyiodide ions using bipyridylbutadienes as templates (Grad. Sch. Human. Sci., Ochanomizu Univ.) ○HOZUMI, Atsuko; YAMADA, Shinji
- 1B7-33** Supramolecular Mixed Liquid Crystals Showing Interconversion between Discotic and Calamitic Phases: Direct Observation and Mechanistic Analysis (Grad. Sch. Eng., Osaka Pref. Univ.) ○YAMAGAKI, Masashi; OKAMURA, Haruyuki; MATSUMOTO, Akikazu
- 1B7-34** Inclusion crystals and 1D channel structures using H-shaped CTXP host molecule (Grad. Sch. Sci., Eng., Tokyo Tech) ○OTA, Kiyoshi; SEKINE, Akiko; UEKUSA, Hidehiro

Molecular Recognition

Chair: HISAKI, Ichiro (14 : 50~16 : 00)

- * 14:40-14:50: interval for laptop PC connection.(1B7-36, 1B7-38, 1B7-39, 1B7-40, 1B7-41, 1B7-42)
- 1B7-36*** Hydration and Dehydration Transformation Mechanism of Cefaclor Pseudopolymorphs (Grad. Sch. Sci., Eng., Tokyo Tech) ○TOYOSHIMA, Ryosuke; SEKINE, Akiko; UEKUSA, Hidehiro
- 1B7-38** Host-guest interaction motif for curcumin cocrystal (Grad. Sch. Sci., Eng., Tokyo Tech) ○TERAOA, Kota; SEKINE, Akiko; UEKUSA, Hidehiro
- 1B7-39** Design for Inclusion Abilities of Bulky Ureas Derived from Amino Acids and Their Crystal Structures (Grad. Sch. Eng., Chiba Univ.) AKAZOME, Motohiro; ○NORITA, Naoto; MATSUMOTO, Shoji
- 1B7-40** Molecular Recognition by Inclusion Crystals of *tert*-Butylammonium Salt of *N*-Trityl-3-iodotyrosine. (Grad. Sch. Eng., Chiba Univ.) AKAZOME, Motohiro; ○IKEGAYA, Masato; MATSUMOTO, Shoji
- 1B7-41** Synthesis, crystal structure, and gas adsorption behavior of *N*-protected DL-phenylalanyl-glycine (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○ASAI, Hisashi; KOCHUNNOONY, Manoj; TAKAHASHI, Hiroki; TAMURA, Rui; TSUE, Hirohito
- 1B7-42** Crystal structure and gas adsorption property of magnesium

porphyrin with open coordination sites (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○OKETANI, Ryusei; TAKAHASHI, Hiroki; TAMURA, Rui; TSUE, Hirohito

Reaction in Molecular Assembly

Chair: HAYASHI, Naoto (16 : 10~17 : 00)

- * 16:00-16:10: interval for laptop PC connection.(1B7-44, 1B7-45, 1B7-46, 1B7-47, 1B7-48)
- 1B7-44** Withdrawn
- 1B7-45[#]** X-Ray Identification of Reversible Michael Adducts by the Crystalline Sponge Method (Grad. Sch. Eng., The Univ. of Tokyo) ○DUPLAN, Vincent; SATO, Hiroyasu; HOSHINO, Manabu; INOKUMA, Yasuhide; FUJITA, Makoto; HONDA, Tadashi
- 1B7-46** Control of molecular orientation of azaanthracene by co-grinding with naphthol and solid-state photodimerization of azaanthracene (Grad. Sch. Human. Sci., Ochanomizu Univ.) ○AKAZAWA, Rika; YAMADA, Shinji
- 1B7-47** Reversible topochemical polymerization via [2+2] photo-cycloaddition of thymine derivative in the crystals (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○UDAGAWA, Akihiro; PRISCILLA, Johnston; SAITO, Kei; SAKON, Aya; TOYOSHIMA, Ryosuke; UEKUSA, Hidehiro; KOSHIMA, Hideko; ASAH, Toru
- 1B7-48** Study on photoinduced polymerization process of diacetylenes nanocrystals (Grad. Sch. Sci., Eng., Ehime Univ.) ○YAMAOKA, Yohei; OGURA, Yumi; ONODERA, Tsunenobu; OIKAWA, Hidetoshi; ASAH, Tsuyoshi

Friday, March 27, AM

Absorption and Luminescent Properties

Chair: MUTAI, Toshiki (9 : 00 ~9 : 40)

- * 8:50-9:00: interval for laptop PC connection.(2B7-01, 2B7-02, 2B7-03)
- 2B7-01** Fluorescence spectral change of dibenzoylmethane in crystal formation process during the droplet evaporation. (Fac. Edu., Shinshu Univ.; Paris 13 Univ.) ○ITO, Fuyuki; SUZUKI, Yukino; FUJIMORI, Jun-ichi; SAGAWA, Takehiro; YASUKUNI, Ryohei; LAMY DE LA CHAPELLE, Marc
- 2B7-02[#]** Solid-State Emission of Zwitterionic 1-(3-Oxypyridin-2-yl)-imidazolium Salts with Polymethylene Chains (Grad. Sch. Eng. Sci., Osaka Univ.) ○YOSHIDA, Atsushi; KOMIYA, Naryuoshi; NAOTA, Takeshi
- 2B7-03*** Intermolecular Interactions of Diaroylmethanoboron Difluoride that Controls Emission Properties (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○SAKAI, Atsushi; OHTA, Eisuke; MATSUI, Yasunori; IKEDA, Hiroshi

Chair: KITAMURA, Chitoshi (9 : 50 ~10 : 50)

- * 9:40-9:50: interval for laptop PC connection.(2B7-06, 2B7-08, 2B7-10)
- 2B7-06*** Synthesis, structures, and fluorescence properties of sulfonylaniline-based push-pull molecules (Grad. Sch. Sci., Eng., Yamagata Univ.) ○BEPPE, Teruo; TOMIGUCHI, Kosuke; KATAGIRI, Hiroshi
- 2B7-08*** Crystal Structures and Emission Properties of Halogenated (X = F, Cl, Br, I) Diphenylhexatrienes (AIST) ○SONODA, Yoriko; GOTO, Midori; FURUBE, Akihiro; YAGUCHI, Kaori; SASAKI, Fumio; MATSUMOTO, Yuuki; SHIMOI, Yukihito; AZUMI, Reiko
- 2B7-10*** Solid-state luminescence and chemical reactivity of 2-aminochalcone epoxides (Grad. Sch. Educ., Hiroshima Univ.) ○AMIMOTO, Kiichi; HASE, Kiyofumi

Chair: AMIMOTO, Kiichi (11 : 00~11 : 40)

- * 10:50-11:00: interval for laptop PC connection.(2B7-13, 2B7-14, 2B7-15, 2B7-16)
- 2B7-13** MO analysis of crystal colors of 1,4-dipropoxy-9,10-anthraquinone polymorphs (Sch. Eng., The Univ. of Shiga Pref.; Kobe Univ. Grad. Sch. System Inform.) ○KITAMURA, Chitoshi; LI, Sining; TAKEHARA, Munenori; INOUE, Yoshinori; FUJIMOTO, Kazuhiro
- 2B7-14** Intermolecular interactions in a benzene solvate of 2,5-diamino-3,6-dicyanopyrazine dye having 4-chlorobenzyl substituents (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○AKUNE, Yoko; HIROSAWA, Risa; MATSUMOTO, Shinya
- 2B7-15** Optical properties of polymorphs of 2,5-diamino-3,6-dicyanopyrazine dye having 4-methylbenzyl substituents (Yokohama Natl. Univ. Faculty of Engineering Science) ○HIROSAWA, Risa; AKUNE, Yoko; MATSUMOTO, Shinya
- 2B7-16** Photochromic activity inhibition of salicylideneaniline derivatives by forming halogen bonds. (Grad. Sch. Sci., Eng., Tokyo Tech) ○SUGIYAMA, Haruki; SEKINE, Akiko; UEKUSA, Hidehiro

Friday, March 27, PM

Magnetic and Dielectric Properties

Chair: IMAI, Yoshitane (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(2B7-34, 2B7-35, 2B7-36, 2B7-37, 2B7-38, 2B7-39)

- 2B7-34** Synthesis, structures, and FET characteristics of asymmetric alkyl acenes (Grad. Sch. Sci., Eng., Yamagata Univ.; Tokai Rika Co., Ltd.)
 ○OGAWA, Yuta; MIURA, Chiyo; NOBATA, Naoki; MAMADA, Masashi; TOKITO, Shizuo; KATAGIRI, Hiroshi
- 2B7-35** Molecular motion and dielectric property of polar donor molecules in charge transfer complex crystals (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) ○SATO, Shota; HARADA, Jun; TAKAHASHI, Yukihiko; INABE, Tamotsu
- 2B7-36** Structural phase transitions and dielectric response of charge-transfer complex crystals of polar acceptor molecules (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) ○OHTANI, Masaki; HARADA, Jun; TAKAHASHI, Yukihiko; INABE, Tamotsu

Chirality

- 2B7-37** Generation and amplification of chirality of 3,4-diphenylsuccinimides by the solid-gas reaction (Grad. Sch. Eng., Chiba Univ.) ○KUNITO, Yui; ISHIKAWA, Hiroki; KASASHIMA, Yoshio; MINO, Takashi; SAKAMOTO, Masami
- 2B7-38** Asymmetric Synthesis of amino acid derivatives by Dynamic Preferential Crystallization (Grad. Sch. Eng., Chiba Univ.) SAKAMOTO, Masami; ○KAJI, Yuki; ISHIKAWA, Hiroki; KASASHIMA, Yoshio; MINO, Takashi
- 2B7-39** Direct observation of polymorphic transition causing preferential enrichment by temperature-controlled video microscopy (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○TAKAHASHI, Hiroki; IWAMA, Sekai; MORITA, Yoko; STÉPHANE, Veesler; TSUE, Hirohito; TAMURA, Rui

Chair: KATAGIRI, Hiroshi (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(2B7-41, 2B7-43, 2B7-45, 2B7-46)
- 2B7-41*** Relationship between the optical activity and the crystal structure of alanine crystals with two-fold screw axis (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○ISHIKAWA, Kazuhiko; TANAKA, Masahito; SHIRO, Motoo; KOSHIMA, Hideko; ASAH, Toru
- 2B7-43*** Chiroptical properties of photomechanical salicylidenephenylethylamine crystals (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) TAKANABE, Akifumi; TANAKA, Masahiro; JOHMOTO, Kohei; UEKUSA, Hidehiro; MORI, Tadashi; SHIRO, Motoo; ○KOSHIMA, Hideko; ASAH, Toru
- 2B7-45** Preparation and substituent effect of the aromatic carboxylic acid/amine supramolecular host complex having heterocyclic unit (Fac. Sci. Eng., Kinki Univ.; Tokyo Univ. of Sci.) ○KITAMURA, Sayaka; WAKABAYASHI, Takashi; TABATA, Hideyuki; KURODA, Reiko; IMAI, Yoshitane
- 2B7-46** Preparation behavior of supramolecular organic fluorophore composed of achiral π conjugated phenanthryl carboxylic acid and amine molecules (Kinki Univ.; Oita Univ.; Tokyo Univ. of Sci.; NAIST) ○NISHIKAWA, Tomoki; TANIGUCHI, Naoya; HARADA, Takunori; KURODA, Reiko; FUJIKI, Michiya; IMAI, Yoshitane

Room C1

Bldg.6 633

Colloid and Interface Chemistry

Thursday, March 26, AM

Chair: TERANISHI, Toshiharu (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1C1-01, 1C1-02, 1C1-03, 1C1-04, 1C1-05, 1C1-06)
- 1C1-01** Fabrication of CuInS₂/ZnS nanoparticles covering on SiO₂ particles and characterization of their fluorescence property (Fac. Eng., Tokyo Univ. of Sci.) ○SAITO, Yusuke; ENDO, Hiroshi; KAWAI, Takeshi
- 1C1-02** Preparation of Au NPs dispersions in various organic solvents using a long-chain amide amine derivative (Fac. Eng., Tokyo Univ. of Sci.) ○FUKUDA, Kunihiko; ENDO, Hiroshi; KAWAI, Takeshi
- 1C1-03** Synthesis of Pt-Au alloy nanoparticles caused by fusion growth (Grad. Sch. Adv. Integration Sci., Chiba Univ.) ○ITO, Yoshimi; HANEISHI, Chikara; UEHARA, Nobuo; MORITA, Takeshi
- 1C1-04** Effects of Terminally Functionalized PEGs on Formation of Gold Nanoparticles in Sputter Deposition Technique (Grad. Sch. Adv. Integration Sci., Chiba Univ.) ○KIMURA, Satoshi; HATAKEYAMA, Yoshiaki; JUDAI, Ken; MORITA, Takeshi; NISHIKAWA, Keiko
- 1C1-05** Synthesis of quantum-sized metal oxide cluster by using dendrimer as a template. (Chem. Res. Lab., Tokyo Tech) ○INOMATA, Yusuke; ALBRECHT, Ken; HARA, Haruo; YAMAMOTO, Kimihisa
- 1C1-06*** Structural characterization of ligand-protected gold clusters by X-ray absorption spectroscopy (Grad. Sch. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.; Fac. Sci., Tokyo Univ. of Sci.) ○YAMAZOE, Seiji; TAKANO, Shinjiro; MATSUO, Shota; KURASHIGE, Wataru; NEGISHI, Yuichi; TSUKUDA, Tatsuya

Chair: KAWAI, Takeshi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1C1-08, 1C1-09, 1C1-10, 1C1-11, 1C1-12, 1C1-13)
- 1C1-08** Control of Size and Shell Thickness of Silver Nanoshell Synthesized by Reduction of Silver Thiocyanate (Fac. Sys. Eng., Wakayama Univ.) ○YOKOMINE, Shoichi; KADO, Shinpei; KIMURA, Keiichi
- 1C1-09** Synthesis and Visible Light-induced Charge Separation of Hetero-structured Au/ZnS Nanoparticles (Grad. Sch. Sci., Kyoto Univ.) ○KIMURA, Masato; SAKAMOTO, Masanori; FURUBE, Akihiro; TERANISHI, Toshiharu
- 1C1-10** Characterization of Silver Nanoparticles Synthesized by Vacuum Evaporation on Running Oil Substrate Method Using Nonpolar Solvents Containing Various Kinds of Protective Agents (Fac. Sys. Eng., Wakayama Univ.) ○IENAGA, Takashi; NAKAHARA, Yoshio; KIMURA, Keiichi
- 1C1-11** Oriented attachment and self-organization of CdSe nanorods facilitated by ligand-exchange process (Grad. Sch. Mat. Sci., NAIST) ○TANIGUCHI, Yuki; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 1C1-12** Preparation of Composite Latex Particles via Emulsion Polymerization Using Amphiphilic Crosslinker-Cyclodextrin Nanoparticles as Pickering Stabilizer (Fac. Eng., OIT) KAWANO, Shintaro; ○TANAKA, Akihito; SHIMOMURA, Osamu; SATO, Hirofumi; SHIZUMA, Motohiro; NOMURA, Ryoki; ONO, Daisuke
- 1C1-13** Determination of the binding constant of the organic molecules bound to the surface of gold nanoparticles. (KIT) ○MATSUMOTO, Ikuko; NAITOU, Yasuaki; NAKANISHI, Hideyuki; NORISUYE, Tomohisa; TRAN-CONG-MIYATA, Qui

Chair: ENDO, Hiroshi (11 : 20~12 : 00)

- * 11:10-11:20: interval for laptop PC connection.(1C1-15, 1C1-17)
- 1C1-15*** Stimuli-Responsive Structural Colored Balloons (Grad. Sch. Eng., Kyoto Univ.; PRESTO, JST) ○HIGASHIGUCHI, Kenji; INOUE, Masafumi; ODA, Tomohiro; IMAI, Jun; MATSUDA, Kenji
- 1C1-17*** The preparation of acetylide nanowires containing various organic molecules (Sch. Sci. Eng., Meisei Univ.) ○NISHIO, Junichi; WADA, Tomoaki; ISHIZAKI, Shinya; WAKASUGI, Takashi; OKUYAMA, Hayato; SAKASHITA, Daiki; SASAKI, Kazuki

Thursday, March 26, PM

Chair: NEGISHI, Yuichi (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(1C1-26, 1C1-28, 1C1-30)
- 1C1-26*** Catalytic performance of iron group nanoalloys in electrochemical oxidation of ammonia (I₂CNER, Kyushu Univ.) ○KITANO, Sho; HEIMA, Minako; YAMAMOTO, Tomokazu; MATSUMURA, Syo; YAMAUCHI, Miho
- 1C1-28*** Oxidation Ability of Plasmon-Induced Charge Separation Evaluated on the Basis of Coordinative Dissolution of Gold Nanoparticles (IIS, The Univ. of Tokyo) ○NISHI, Hiroyasu; TATSUMA, Tetsu
- 1C1-30*** Synthesis of Copper Fine Particles and Study of Oxidative Preheating Process for Obtaining Highly Conductive Copper Films (Grad. Sch. Eng., Hokkaido Univ.) ○YONG, Yingqiong; MATSUBARA, Masaki; TSUKAMOTO, Hiroki; YONEZAWA, Tetsu

Chair: KANIE, Kiyoshi (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(1C1-33, 1C1-35, 1C1-37, 1C1-38)
- 1C1-33*** Preparation of Organic/Inorganic Hybrid Particles bearing Dispersion/Aggregation State Controllability with CO₂/N₂ Bubbling in Aqueous Dispersed System (Grad. Sch. Eng., Kobe Univ.) ○KITAYAMA, Yukiya; TAKEUCHI, Toshifumi
- 1C1-35*** The synthesis and property of the novel fcc Ruthenium Nanoparticles (Grad. Sch. Sci., Kyoto Univ.) ○KUSADA, Kohei; YAMAMOTO, Tomokazu; MATSUMURA, Syo; SATO, Katsutoshi; NAGAOKA, Katsutoshi; ROSANTHA, Kumara; SAKATA, Osami; KITAGAWA, Hiroshi
- 1C1-37** Nanoparticle syntheses inside the porous coordination polymer with interaction sites (FIRST, Konan Univ.) ○TAKASHIMA, Yohei; SATO, Yasushi; TSURUOKA, Takaaki; AKAMATSU, Kensuke
- 1C1-38** Synthesis of high-aspect-ratio twin gold nanorods (NRI, AIST; JST PRESTO) ○TAKENAKA, Yoshiko

Chair: AKAMATSU, Kensuke (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(1C1-40, 1C1-42, 1C1-44, 1C1-45)
- 1C1-40*** Preparation of Iron Oxide Nanoparticles in Epsilon Phase by Crystal Structural Transformation of Iron Oxide Nanoparticles and their Magnetic Properties (IMRAM, Tohoku Univ.) ○NAKAYA, Masafumi; NISHIDA, Ryo; MURAMATSU, Atsushi
- 1C1-42*** Liquid-Crystalline Organic-Inorganic Hybrid Dendrimer with a Monodispersed CdS Nanoparticle as Inner Corona: Photoluminescence Behavior of the Self-Organized Assembly (IMRAM, Tohoku Univ.; University of Sheffield) ○KANIE, Kiyoshi; MATSUBARA, Masaki; STEVENSON, Warren; ZENG, Xiangbing; MURAMATSU, Atsushi; UNGAR, Goran
- 1C1-44** Fabrication technique of the Hollow Nanoparticles by Ultraviolet Irradiation: Effect of wettability of the particle (Fac. Eng., Tokyo Univ. of

- Sci.) ○TAKAHASHI, Miwa; ENDO, Hiroshi; KAWAI, Takeshi
1C1-45 Fabrication technique of the Hollow Polystyrene Nanoparticles by Ultraviolet Irradiation: Effect of incident angle (Fac. Eng., Tokyo Univ. of Sci.) ○KIRYU, Takahiro; ENDO, Hiroshi; KAWAI, Takeshi

Chair: NAKAYA, Masafumi (16 : 40~17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(1C1-47, 1C1-48, 1C1-49, 1C1-50, 1C1-51, 1C1-52)
1C1-47 Rapid One-pot Synthesis of Spiky Ag-Au Nanoparticles and Their Field-enhancement Properties (Kyoto Pref. Univ. Graduate School of Life and Environmental Sciences) YAMAGUCHI, Takahisa; KUMAGAI, Keisuke; ○ISHIDA, Akito
1C1-48 Magneto-plasmonic Ag@FeCo@Ag double-shell nanoparticles which simultaneously have magnetic separation and bioimaging capabilities (Sch. Mat. Sci., JAIST) ○TAKAHASHI, Mari; MOHAN, Priyank; NAKADE, Akiko; MOTT, Derrick; MATSUMURA, Kazuaki; HAMADA, Tsutomu; MAENOSONO, Shinya
1C1-49 One-pot synthesis and spectroscopic properties of gold clusters and gold nanoparticles using sulfanyl aniline derivatives (Grad. Sch. Sci., Eng., Kagoshima Univ.) RYUTARO, Aoki; ○KURAWAKI, Junichi
1C1-50 Development of Potentiometric Localized Surface Plasmon Resonance Sensors (IIS, The Univ. of Tokyo) ○AKIYOSHI, Kazutaka; KATAGI, Yu; KAZUMA, Emiko; NISHI, Hiroyasu; TATSUMA, Tetsu
1C1-51 Preparation and optical properties of gold core-satellite nanostructures on glass substrate (FIRST, Konan Univ.) ○KAWAKAMI, Takaya; ODE, Kentaro; TAKASHIMA, Yohei; TSURUOKA, Takaaki; AKAMATSU, Kensuke
1C1-52 Effect of Porous Silica-Coated Gold Nanorods on Spectroscopic Properties of Compounds Around Them (Fac. Sys. Eng., Wakayama Univ.) ○TAKEDA, Ryoko; NAKAHARA, Yoshio; TAMAI, Toshiyuki; KIMURA, Keiichi

Friday, March 27, AM

Chair: ENDO, Takeshi (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2C1-01, 2C1-03, 2C1-04, 2C1-05, 2C1-06)
2C1-01[#] Discrete DNA-Functionalized Gold Nanoparticle Assemblies with a Beads-on-a-String-Like Structure: Interparticle Distance Modulated by Terminal Single-Base Pairing (RIKEN Bioengineering Laboratory) ○AKIYAMA, Yoshitsugu; SHIRAIISHI, Shota; WANG, Guoqing; TAKARADA, Tohru; MAEDA, Mizuo
2C1-03 Synthesis of Gold Clusters Functionalized by Peptide-Dendrimer Thiolates (Grad. Sch. Eng., Kyoto Univ.) ○ISHIBASHI, Kosuke; ISOZAKI, Katsuhiko; TAKAYA, Hikaru; NAKAMURA, Masaharu
2C1-04 Investigation of Raman/fluorescence enhancement on metal island nanoparticles for development of plasmonic imaging probes (Grad. Sch. Sci. Tech., Nihon Univ.) ○KAMIOKA, Rio; SUGAWA, Kosuke; OTSUKI, Joe
2C1-05 Metal Nanocrystal/Metal-Organic Framework Core-Shell Nanostructures from Selective Self-Assembly on Nanocrystal Surface (FIRST, Konan Univ.) ○OHHASHI, Takashi; TSURUOKA, Takaaki; TAKASHIMA, Yohei; AKAMATSU, Kensuke
2C1-06 Influence on dispersibility of the acid and base interaction between a particle and the dispersant (Noritake Company, Limited Technical Development Department) ○OKABE, Kazuyuki

Chair: OTSUKI, Joe (10 : 10~11 : 10)
 * 10:00-10:10: interval for laptop PC connection.(2C1-08, 2C1-09, 2C1-10, 2C1-11, 2C1-12, 2C1-13)
2C1-08 First-principles calculation of epsilon iron oxide with super high coercive field (Grad. Sch. Sci., The Univ. of Tokyo) ○YOSHIKIYO, Marie; NAMAI, Asuka; OHKOSHI, Shin-ichi
2C1-09 Size-controlled synthesis of Ni nanoparticles and their magnetic properties (Toyota Central R&D Labs., Inc.) ○YATSUGI, Kenichi; ISHIZAKI, Toshitaka; AKEDO, Kunio
2C1-10 Grain Size Dependence of Magnetic Properties in $L1_0$ -FePd/ α -Fe Nanocomposite Magnets (ICR, Kyoto Univ.; Toyota Motor corporation Advanced Material Engineering Division) ○MATSUMOTO, Kenshi; SATO, Ryota; TRINH, Thang Thuy; SAKUMA, Noritsugu; TERANISHI, Toshiharu
2C1-11 Magnetic field effect to gelation of aqueous silicate solutions (Grad. Sch. Sci. Technol., Shinshu Univ.; Fuji Chemical Co. Ltd. Team21) ○SASAHARA, Shigeo; KAIDA, Keiichiro; OZEKI, Sumio
2C1-12 Pressure Effect on The Phase Behavior and Ionic Conductivity of Silver Iodide Nanoparticles (Grad. Sch. Sci., Kyoto Univ.; CREST, JST; JASRI SPring-8) ○YAMAMOTO, Takayuki; KOBAYASHI, Hirokazu; MAESATO, Mitsumiho; OHISHI, Yasuo; HIRAO, Naohisa; KITAGAWA, Hiroshi
2C1-13 Preparation of TiO₂ thin films in the adsorbed water layer formed at the solid/organic solvent interface -Effect of organic solvents- (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○KENMOTSU, Taishiro; ENDO, Takeshi; TORIGOE, Kanjiro; SAKAI, Kenichi; ABE, Masahiko; SAKAI, Hideki

Chair: ISOZAKI, Katsuhiko (11 : 20~12 : 00)
 * 11:10-11:20: interval for laptop PC connection.(2C1-15, 2C1-16, 2C1-17,

- 2C1-18)
2C1-15 Thermoresponsive Assembly of Gold Nanoparticles Modified with Oligo(Ethylene Glycol) Derivatives (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○HIDA, Ryo; NIKURA, Kenichi; MITOMO, Hideyuki; IJIRO, Kuniharu
2C1-16 Elucidation of the formation scheme for Ni nanoparticles with Pt frame using alcohol reduction method (Sch. Eng., The Univ. of Shiga Pref.) ○NAGAO, Ayumu; HIGASHIMINE, Koichi; IWAMOTO, Takashi; JHON, Cuya; MAENOSONO, Shinya; MIYAMURA, Hiroshi; BALACHANDRAN, Jayadevan
2C1-17[#] Synthesis and catalytic properties of size-controlled PdRu nanoalloy (Grad. Sch. Sci., Kyoto Univ.) ○WU, Dongshuang; KUSADA, Kohji; KITAGAWA, Hiroshi
2C1-18 Synthesis of Anisotropic ZnS-AgInS₂ Nanocrystals and Their Optical Properties (Grad. Sch. Eng., Nagoya Univ.) ○FUKATSU, Akihiro; KAMEYAMA, Tatsuya; KUWABATA, Susumu; TORIMOTO, Tsukasa

Friday, March 27, PM

Chair: TAKAYA, Hikaru (13 : 10~14 : 40)

- * 13:00-13:10: interval for laptop PC connection.(2C1-26, 2C1-27, 2C1-29, 2C1-31, 2C1-33)
2C1-26 Synthesis of π -conjugated Molecules Coordinated Nanoparticles toward the Formation of Suprastructure (Grad. Sch. Sci., Kyoto Univ.; ICR, Kyoto Univ.) ○YAMAOKA, Satoshi; SAKAMOTO, Masanori; TERANISHI, Toshiharu
2C1-27[#] Structural control of gold clusters using porphyrin derivatives (Grad. Sch. Sci., Kyoto Univ.) ○EGUCHI, Daichi; SAKAMOTO, Masanori; TERANISHI, Toshiharu
2C1-29^{*} Synthesis and Specific Catalytic Activity of Atomicity Controlled Subnano Noble Metal Clusters (Chem. Res. Lab., Tokyo Tech; ICU) ○KITAZAWA, Hirokazu; IMAOKA, Takane; ALBRECHT, Ken; CHUN, Wang Jae; KOFUKU, Taku; YAMAMOTO, Kimihisa
2C1-31^{*} Preparation of Gallium Oxide Nanoparticles Derived from Gallium Nanoparticles (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) ○SUDO, Shinya; KOKADO, Kenta; SADA, Kazuki
2C1-33^{*} Efficiency Enhancement of ZnO Nanowire/PbS Quantum Dot Heterojunction Solar Cells by Plasmonic Silver Nanocubes (IIS, The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○KAWAWAKI, Tokuhisa; SAITO, Koichiro; WANG, Haibin; KUBO, Takaya; NAKAZAKI, Jotaro; SEGAWA, Hiroshi; TATSUMA, Tetsu

Chair: IMURA, Tomohiro (17 : 00~17 : 50)

- * 16:50-17:00: interval for laptop PC connection.(2C1-49, 2C1-50, 2C1-51, 2C1-52, 2C1-53)
2C1-49 Wetting dynamics on pasta surfaces (Grad. Sch. Sci., Eng., Yamagata Univ.) ○YAMA, Taro; MAYAMA, Hiroyuki; ○NONOMURA, Yoshimune
2C1-50 Conditions for the formation of the onion phase with a long-range orientational order and the lamellar-onion-lamellar transition. (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) ○KUGIZAKI, Shiori; KAWABATA, Youhei; KATO, Tadashi
2C1-51 Combinatorial Effect of NaCl and Cryogenic Treatment on Coagel Formation of Mono-tailed Glycolipid (Sch. Sci. Tech., Kwansai Gakuin Univ.; Fac. Sci. Tech., Keio Univ.) ○OGAWA, Shigesaburo; KOGA, Maito; ASAKURA, Kouichi; TAKAHASHI, Isao; OSANAI, Shuichi
2C1-52 Effect of Polyoxypropylene Chain of Homogeneous Polyoxypropylene-Polyoxyethylene Type Nonionic Surfactants on Aggregate Formation (Grad. Sch. Human. Sci., Nara Women's Univ.) ○YADA, Shihou; YOSHIMURA, Tomokazu
2C1-53 Correlation between Phase State and Heat Storage Performance of Paraffin-based Latent Heat Storage Materials (Fac. Eng., Shinshu Univ.) ○SUZUKI, Kei; SAKAI, Toshio

Chair: TAIRA, Toshiaki (18 : 00~18 : 40)

- * 17:50-18:00: interval for laptop PC connection.(2C1-55, 2C1-56, 2C1-57, 2C1-58)
2C1-55 Synthesis and Properties of Quaternary Ammonium Salt-type Gemini Ionic Liquids (Fac. Sci., Nara Women's Univ.) ○KAWAI, Risa; YOSHIMURA, Tomokazu
2C1-56 Study on formation of amphiphilic polydepsipeptide micelle "Lactosome" (Grad. Sch. Mat. Sci., NAIST; Shimadzu Corp.) ○ONOUE, Fumiya; MATSUI, Hayato; TADA, Yuu; KAWABE, Takashi; OZEKI, Eiichi
2C1-57 Fluorescent Dye Doped Micelles for Metal Ion Detection in Aqueous Solution (Grad. Sch. Integrated Arts Sci., Kochi Univ.) ○MISATO, Nakao; AKIKO, Hayaside; SONGO, Hadano; SIGERU, Watanabe
2C1-58[#] E-field Driven Liquid Crystal with Rewritable Memory of Reflection Color (Grad. Sch. Eng., The Univ. of Tokyo) ○TOKUNAGA, Shoichi; ITOH, Yoshimitsu; AIDA, Takuzo

Saturday, March 28, AM

Chair: HARANO, Koji (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3C1-01, 3C1-02, 3C1-03, 3C1-04, 3C1-05, 3C1-06)

- 3C1-01** Preparation and Characterization of Liquid Crystalline Hydrogels Composed of Filamentous Viruses and Gelatin (Grad. Sch. Sci., Eng., Tokyo Tech) ○YANAGIMACHI, Miyuki; SAWADA, Toshiki; SERIZAWA, Takeshi
- 3C1-02** Construction and Characterization of Liquid Crystalline Films Composed of Oriented Filamentous Viruses (Grad. Sch. Sci., Eng., Tokyo Tech) ○MURATA, Yuta; SAWADA, Toshiki; MARUBAYASHI, Hironori; NOJIMA, Shuichi; MORIKAWA, Junko; SERIZAWA, Takeshi
- 3C1-03** Liquid Crystalline Structure Formed by Filamentous Viruses Conjugated with Photo-responsive Molecules (Grad. Sch. Sci., Eng., Tokyo Tech) ○NOHARA, Takatoshi; SAWADA, Toshiki; SERIZAWA, Takeshi
- 3C1-04** Synthesis of Self-Propelled Protein Microtubes (Fac. Sci. Eng., Chuo Univ.) ○KOBAYAKAWA, Satoshi; KOMATSU, Teruyuki
- 3C1-05** Control of Polymorph and Self-Assembled Morphology of Glycolipids by Association/Dissociation with Boronic-Acid Polymers -Efficient Synthesis of Monolayer Organic Nanotubes- (NRI, AIST) ○KAMETA, Naohiro; MASUDA, Mitsutoshi; SHIMIZU, Toshimi
- 3C1-06** Construction of Boroxine Nanotubes -Moisture-Sensitive Morphological Transformation and Guest Release- (NRI, AIST) ○KAMETA, Naohiro; MASUDA, Mitsutoshi; SHIMIZU, Toshimi

Chair: KAMETA, Naohiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3C1-08, 3C1-09, 3C1-10, 3C1-12, 3C1-13)
- 3C1-08** Covalent framework with macroscopically oriented helical pores (1): Application as a nonlinear optical material (RIKEN CEMS) ○TOSE, Takenori; LI, Chunji; CHO, Joonil; YAMADA, Kuniyo; ISHIDA, Yasuhiro
- 3C1-09** Covalent framework with macroscopically oriented helical pores (2): structure and functions of lanthanide-containing composites (RIKEN CEMS) ○TOSE, Takenori; LI, Chunji; CHO, Joonil; YAMADA, Kuniyo; ISHIDA, Yasuhiro
- 3C1-10[#]** Cooperative Self-Assembly of Gold Nanoparticles on the Hydrophobic Surface of Fullerene Bilayer Vesicles in Water (Grad. Sch. Sci., The Univ. of Tokyo; CREST, JST) GORGOLL, Ricardo Mizoguchi; ○HARANO, Koji; NAKAMURA, Eiichi
- 3C1-12[#]** Controlled Self-Assembly of Gold Nanoparticles on Fullerene Vesicles by Surface Modification (The Univ. of Tokyo Department of Chemistry, Graduate School of Science; CREST, JST) ○TSUBOTA, Takuya; GORGOLL, Ricardo Mizoguchi; HARANO, Koji; NAKAMURA, Eiichi
- 3C1-13** Aggregate formation of nonionic surfactant in ionic liquid and their application to the synthesis of metal nanoparticles (Fac. Human Life Env., Nara Women's Univ.; Grad. Sch. Eng., Kyoto Univ.) ○HARADA, Masafumi; ASANO, Chihiro; HORIGUCHI, Shiori; SAIJO, Kenji

Chair: TAICHI, Ikeda (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3C1-15, 3C1-16, 3C1-17, 3C1-19)
- 3C1-15[#]** Soft materials based on the macroscopic ordering of charged nanosheets (1): Anisotropic hydrogel with electrostatic repulsion between cofacially aligned nanosheets (RIKEN CEMS) ○SANO, Koki; LIU, Mingjie; EBINA, Yasuo; SASAKI, Takayoshi; ISHIDA, Yasuhiro; AIDA, Takuzo
- 3C1-16[#]** Soft materials based on the macroscopic ordering of charged nanosheets (2): Photonic crystals with extra-high water content (RIKEN CEMS) ○SANO, Koki; KIM, Younsoo; EBINA, Yasuo; SASAKI, Takayoshi; ISHIDA, Yasuhiro; AIDA, Takuzo
- 3C1-17^{*}** Red fluorescent fibers assembled from trigonal azobenzene derivatives (Grad. Sch. Eng., Tottori Univ.) ○HAN, Mina; CHO, Sung June; NORIKANE, Yasuo; SHIMIZU, Masaki; KIMURA, Akinori; TAMAGAWA, Tomokazu; MATSUURA, Kazunori; SEKI, Takahiro
- 3C1-19^{*}** Polymer Grafted Metal-Organic Polyhedra (iCeMS, Kyoto Univ.) ○HOSONO, Nobuhiko; MATSUDA, Ryotaro; KITAGAWA, Susumu

Saturday, March 28, PM

Chair: HAN, Mina (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3C1-28, 3C1-30, 3C1-32)
- 3C1-28[#]** Oxyanionic Template-assisted Photopolymerization for Site-selective Adhesion of Molecular Glue (Grad. Sch. Eng., The Univ. of Tokyo) ○HATANO, Junichi; OKURO, Kou; AIDA, Takuzo
- 3C1-30[#]** 'Chain-Growth' Supramolecular Polymerization of C5-symmetric Corannulene (The Univ. of Tokyo) ○KANG, Jiheong; MIYAJIMA, Daigo; AIDA, Takuzo
- 3C1-32^{*}** Effect of folding point chemical structure on thiophene nanohsheet formation (NIMS) ○TAICHI, Ikeda
- Chair: KOSHIYAMA, Tomomi (14 : 40~15 : 40)
- * 14:30-14:40: interval for laptop PC connection.(3C1-35, 3C1-36, 3C1-37, 3C1-38, 3C1-39, 3C1-40)
- 3C1-35** Synthesis of Fluorescence Antibiotic-imprinted Polymers Bearing Site-specific Tunable Moieties Only Inside the Binding Cavity. (Grad. Sch. Eng., Kobe Univ.) ○OSHITA, Azusa; SUNAYAMA, Hirobumi; KITAYAMA, Yukiya; TAKEUCHI, Toshifumi
- 3C1-36** Construction of liver-cancer biomarker protein-imprinted cavities containing different types of reversibly tunable domains (Grad. Sch. Eng.,

- Kobe Univ.) ○HORIKAWA, Ryo; SUNAYAMA, Hirobumi; KITAYAMA, Yukiya; TAKEUCHI, Toshifumi
- 3C1-37** Synthesis of Carcinoembryonic Antigen-Imprinted Polymer Nanoparticles by Atom Transfer Radical Polymerization for Selective Fluorescent Detection (Grad. Sch. Eng., Kobe Univ.) ○PETERSON, Courtney; SUNAYAMA, Hirobumi; KITAYAMA, Yukiya; TAKEUCHI, Toshifumi
- 3C1-38** Synthesis of protein-imprinted core/shell polymer particles bearing ON/OFF switchable molecular recognition property via CO₂/N₂ bubbling (Grad. Sch. Eng., Kobe Univ.) ○ISOMURA, Manabu; KITAYAMA, Yukiya; TAKEUCHI, Toshifumi
- 3C1-39** Construction of molecularly imprinted chiral reaction sites for photodimerization of 2-anthracenecarboxylic acid (Grad. Sch. Eng., Kobe Univ.) ○NAKAI, Satoshi; TAKANO, Eri; SUNAYAMA, Hirobumi; KITAYAMA, Yukiya; NISHIHAMA, Masaki; INOUE, Yoshihisa; WADA, Takehiko; TAKEUCHI, Toshifumi
- 3C1-40** Synthesis of novel amino acid-derived polymers with changeable main-chain structure from ester to amide-linkage (Grad. Sch. Eng., Doshisha Univ.) ○ASO, Eri; KOGA, Tomoyuki; HIGASHI, Nobuyuki

Chair: OGOSHI, Tomoki (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(3C1-42, 3C1-43, 3C1-44, 3C1-45, 3C1-46)
- 3C1-42** Electrochemical Morphological Control of Aggregates Formed from Mixtures of Ferrocenyl Surfactants (Fac. Eng., Tokyo Univ. of Sci.) ○IKEDA, Ayaka; TAKAHASHI, Yutaka; KONDO, Yukishige
- 3C1-43** Thermo-responsive boronate ester-derived particles with white light-emission (Tokyo Metropolitan Univ. Urban Environmental Sciences) ○OZAWA, Ayumi; SHIMIZU, Ai; NISHIYABU, Ryuhei; KUBO, Yuji
- 3C1-44** Construction of light harvesting system using membrane domain structure (Grad. Sch. Sci., Kyushu Univ.) ○HATAE, Tatsuru; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 3C1-45** Synthesis and Anticancer Activities of Doxorubicin-loaded DNA Nanotubes (Fac. Sci. Eng., Chuo Univ.) ○YAMADA, Chika; AKIYAMA, Motofusa; KOMATSU, Teruyuki
- 3C1-46** Fabrication of Novel Heterotubes Through One-Dimensional Fusion of Different Types of Polymer Capsules (Grad. Sch. Eng., Osaka Univ.) ○INADA, Kiyotaka; KIDA, Toshiyuki; AKASHI, Mitsuru

Chair: TAKAHASHI, Yutaka (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(3C1-48, 3C1-49, 3C1-50, 3C1-51, 3C1-52)
- 3C1-48** Supramolecular gelation of polar liquids with large permanent dipoles and their unique dielectric properties (Fac. Eng., Kyushu Univ.) ○YAMAMOTO, Ryosuke; MINAMI, Yusuke; HOI, Jyosefu Ka Ho; MORIKAWA, Masa-aki; KIMIZUKA, Nobuo
- 3C1-49** Tuning hydrophobicity of boronate hydrogel and its adsorption property for dye pollutants (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) ○NISHIYABU, Ryuhei; OGAWA, Yuta; KUBO, Yuji
- 3C1-50** Assembly Behavior of Supra-Adsorbent Polymer Microparticles Based on Molecular Recognition (Grad. Sch. Sci., Osaka Univ.) ○ITAMI, Takahiro; HASHIDZUME, Akihito; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 3C1-51** Synthesis of anthraceneimide derivatives and their self-assembly behaviors (Urban Environmental Sci., Tokyo Metropolitan Univ.) ○HIZUKA, Shunsuke; SAITO, Tomoki; NISHIYABU, Ryuhei; KUBO, Yuji
- 3C1-52** Construction of Two-Dimensional Supramolecular Sheet Structure by Assembly of Pillar[6]arenes (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; PRESTO, JST) ○OGOSHI, Tomoki; YOSHIKOSHI, Kumiko; YAMAGISHI, Tada-aki

Sunday, March 29, AM

Chair: SUZUKI, Masahiro (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4C1-01, 4C1-02, 4C1-03, 4C1-04, 4C1-05, 4C1-06)
- 4C1-01** Chiral and racemic perfluorinated gelators for fluorinated solvents (Grad. Sch. Human. Sci., Ochanomizu Univ.; Grad. Sch. Sci., Eng., Ehime Univ.; Fac. Sci., Toho Univ.) ○NOGAMI, Emiko; YAJIMA, Tomoko; SATO, Hisako; YAMAGISHI, Akihiko
- 4C1-02** Synthesis and characterization of chiral gelators with ethylene perfluoroalkyl chain (Grad. Sch. Human. Sci., Ochanomizu Univ.; Grad. Sch. Sci., Eng., Ehime Univ.; Fac. Sci., Toho Univ.) ○TABUCHI, Erika; YAJIMA, Tomoko; SATO, Hisako; YAMAGISHI, Akihiko
- 4C1-03** An Intermediate State in Gelation as Revealed by Vibrational Circular Dichroism Spectroscopy (Grad. Sch. Sci., Eng., Ehime Univ.; Grad. Sch. Human. Sci., Ochanomizu Univ.; Fac. Sci., Toho Univ.) ○SATO, Hisako; YAJIMA, Tomoko; YAMAGISHI, Akihiko
- 4C1-04** LCST Behavior of aromatic compound based Gallic acid derivatives bearing oligo(ethylene glycol) chains (Fac. Eng., Yamagata Univ.) ○ARAI, Masato; ITO, Kazuaki
- 4C1-05** Gelation properties and AIEE of poly(arylether)dendrons bearing anthracene unit (Fac. Eng., Yamagata Univ.) ○ANDO, Tomoaki; ITO, Kazuaki
- 4C1-06** Estimation of upconversion property in boronate gel (Urban Environmental Sci., Tokyo Metropolitan Univ.) ○MATSUMOTO, Hiroto;

KAMIYA, Yuka; YOSHIKAZUMI, Takaya; NISHIYABU, Ryuhei; KUBO, Yuji

Chair: YAJIMA, Tomoko (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4C1-08, 4C1-10, 4C1-12)
4C1-08* Viscosity control of thermo-responsive cyclodextrin nanogel (Osaka Municipal Technical Research Institute) ○KAWANO, Shintaro; ONO, Daisuke; SATO, Hirofumi; SHIZUMA, Motohiro; KIDA, Toshiyuki; AKASHI, Mitsuru
4C1-10* Anthracene-Based Light Melt Adhesive and the Analysis of the Photoinduced Melting Function (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; PRESTO, JST; Grad. Sch. Eng., Nagoya Univ.) ○NOBUSUE, Shunpei; SAITO, Shohei; TSUZAKA, Eri; HARA, Mitsuo; YAMAGUCHI, Shigehiro
4C1-12** 3D Proton and Lithium Transport in Zwitterionic Liquid Crystals (Grad. Sch. Eng., The Univ. of Tokyo) ○SOBERATS REUS, Bartolome; YOSHIO, Masafumi; ICHIKAWA, Takahiro; OHNO, Hiroyuki; KATO, Takashi

Chair: SERIZAWA, Takeshi (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4C1-15, 4C1-16, 4C1-17, 4C1-18, 4C1-19, 4C1-20)
4C1-15 Detection of amine vapors with Eu(III) complex gelator (Grad. Sch. Sci. Technol., Shinshu Univ.) ○SASAKI, Jumpei; SUZUKI, Masahiro; HANABUSA, Kenji
4C1-16 Development of two type gelators for sensing formaldehyde gas and their detection ability (Grad. Sch. Sci. Technol., Shinshu Univ.) ○YOSHIMURA, Asuka; SUZUKI, Masahiro; HANABUSA, Kenji
4C1-17 Non-uniform Distribution of Solvents at Solid/Gel Interface with miscible Mixed Solvents (Fac. Eng., Yamagata Univ.) ○HONMA, Kazuma; SANO, Masahito
4C1-18 Adhesion between gels based on complementary interaction between nucleobase pairs (Grad. Sch. Sci., Osaka Univ.) ○NAKAHATA, Masaki; TAKASHIMA, Yoshinori; HARADA, Akira
4C1-19 efficient synthesis of sugar-based gelators (KASTEC, Kyushu Univ.; ISIT; Nissan Chemical Industries, Ltd.) ○ONO, Fumiyasu; HIRATA, Osamu; ICHIMARU, Keiko; SARUHASHI, Koichiro; SHINKAI, Seiji; WATANABE, Hisayuki
4C1-20 Synthesis of novel asymmetric trans-1,2-diaminocyclohexane derivatives and gelling property (Shinshu Univ.) ○NAKAGAWA, Haruka; HANABUSA, Kenji; SUZUKI, Masahiro

Sunday, March 29, PM

Chair: ONO, Fumiyasu (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(4C1-28, 4C1-29, 4C1-30, 4C1-31, 4C1-32, 4C1-33)
4C1-28 Hydrogel formation of an amphiphilic tris-urea and the function (Grad. Sch. Sci., Shizuoka Univ.) ○TAKESHITA, Juri; YANAI, Kazushige; YAMANAKA, Masamichi
4C1-29 Galation of basic buffers by an amphiphilic tris-urea molecule (Grad. Sch. Sci., Shizuoka Univ.) ○SANO, Shuhei; HARAYA, Nana; YAMANAKA, Masamichi
4C1-30 Synthesis of new hydrogelators based on cis-1,3,5-cyclohexanetricarboxylic acid and 1,3,5-benzenetricarboxylic acid derivatives and gelation property. (Fac. Textile Sci. Technol., Shinshu Univ.) ○KASHIKAWA, Tatsuya; SUZUKI, Masahiro; HANABUSA, Kenji
4C1-31 Synthesis of gelators with functional groups based amino acids and characteristic evaluations. (Grad. Sch. Sci. Technol., Shinshu Univ.) ○SANO, Mayu; SUZUKI, Masahiro; HANABUSA, Kenji
4C1-32 Characterization of Sponge-like Cellulose Prepared by Enzymatic Synthesis in Presence of Cellulose Nanocrystals (Grad. Sch. Sci., Eng., Tokyo Tech) ○HATA, Yuuki; SAWADA, Toshiki; SERIZAWA, Takeshi
4C1-33 Characterization of Sponge-like Cellulose Prepared by Enzymatic Synthesis in the Presence of Water-soluble Polymer (Grad. Sch. Sci., Eng., Tokyo Tech) ○KOIZUMI, Tarō; SAWADA, Toshiki; SERIZAWA, Takeshi

Chair: YAMANAKA, Masamichi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(4C1-35, 4C1-37, 4C1-38, 4C1-39, 4C1-40)
4C1-35* Functional Supramolecular Gels based on L-Lysine-Based Gelators (Shinshu Univ. Interdisciplinary Graduate School of Science and Technology) ○SUZUKI, Masahiro; HAYAKAWA, Yuta; HANABUSA, Kenji
4C1-37 Development of low molecular weight gelators containing super stable radical and their properties (Fac. Textile Sci. Technol., Shinshu Univ.) ○FUJISAWA, Seiya; SUZUKI, Masahiro; HANABUSA, Kenji
4C1-38 Development of low-molecular-weight gelators based on L-isoleucine with sulfobetaine (Fac. Textile Sci. Technol., Shinshu Univ.) ○SAIKI, Keita; HANABUSA, Kenji; SUZUKI, Masahiro
4C1-39 Preparation of functional self-healing material based on the interaction between cyclodextrin and phenolphthalein (Grad. Sch. Sci., Osaka Univ.) ○YONEKURA, Koki; NAKAHATA, Masaki; TAKASHIMA, Yoshinori; HARADA, Akira
4C1-40 Self-healing materials based on polyrotaxane using reversible bonds

(Grad. Sch. Sci., Osaka Univ.) ○MORI, Shoko; NAKAHATA, Masaki; TAKASHIMA, Yoshinori; HARADA, Akira

Chair: HARADA, Akira (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(4C1-42, 4C1-43, 4C1-44, 4C1-45, 4C1-46)
4C1-42 CO₂ Sorption Properties of Ionic Liquid Gel Using Novel Aprotic Low Molecular-Mass Gelators (Grad. Sch. Sci. Eng., Yamaguchi Univ.) ○YOSHIDA, Tomohiro; MORITA, Yuki; OKAMOTO, Hiroaki
4C1-43 Effect of alkyl chain length of ionic liquids on the phase behavior of surfactant / ionic liquid / water ternary system (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○NAKAMURA, Kenta; MISONO, Takeshi; ENDO, Takeshi; SAKAI, Kenichi; ABE, Masahiko; SAKAI, Hideki
4C1-44 Design of amino acid ionic liquids containing an aspartic acid as anion and their application as a media for self-organization of amphiphiles (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○TAKEUCHI, Hiroaki; ICHIKAWA, Takahiro; YOSHIO, Masafumi; KATO, Takashi; OHNO, Hiroyuki
4C1-45 Gelation properties of organic salt compounds based on L-lysine derivative and organic amine (Fac. Textile Sci. Technol., Shinshu Univ.) ○YONEYAMA, Ryoichi; HANABUSA, Kenji; SUZUKI, Masahiro
4C1-46 Detection of explosive substances using new fluorescence gelators (Grad. Sch. Sci. Technol., Shinshu Univ.) ○GEN, Kurotani; MASAHIRO, Suzuki; KENJI, Hanabusa

Room C2 Bldg.6 634

Colloid and Interface Chemistry

Thursday, March 26, AM

Chair: HASEGAWA, Takeshi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1C2-01, 1C2-02, 1C2-03, 1C2-04, 1C2-06)
1C2-01 Dependence of hydrophobic chain length on the layered regularity of organized molecular film of linear and cyclic amphiphilic block copolymers (Grad. Sch. Sci., Eng., Saitama Univ.; Grad. Sch. Sci., Eng., Tokyo Tech) ○MENG, Qi; TEZUKA, Yasuyuki; YAMAMOTO, Takuya; FUJIMORI, Atsuhiko
1C2-02 Precision structural analysis and formation of organized molecular films of polyguanamine derivative having high refractive index (Fac. Eng., Saitama Univ.; Fac. Eng., Iwate Univ.; Grad. Sch. Sci., Eng., Saitama Univ.) ○MIURA, Shuntaro; SHIBASAKI, Yuji; FUJIMORI, Atsuhiko
1C2-03 Formation of organized molecular films by two dimensional integration of organo-modified magnetic particles (Fac. Eng., Saitama Univ.; Grad. Sch. Sci., Eng., Saitama Univ.) ○OMURA, Kyouhei; KAMISHIMA, Kenji; FUJIMORI, Atsuhiko
1C2-04** Enlarged crystalline domain size of highly-oriented molecular nanosheets assembled at air/liquid interfaces (Nanoscience and Nanotechnology Research Center, Osaka Pref. Univ.; PRESTO, JST) ○MAKIURA, Rie
1C2-06 Nanofiber Formation of Candidate of Molecular Conductors by the Methods of Organized Molecular Films (Grad. Sch. Sci., Eng., Saitama Univ.; Inst. Eng., Tokyo Univ. of Agri. and Technol.) ○KANEHIRA, Takuma; YAMATO, Rie; TATEWAKI, Yoko; FUJIMORI, Atsuhiko

Chair: FUJIMORI, Atsuhiko (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1C2-08, 1C2-09, 1C2-10, 1C2-12)
1C2-08 Adsorption characteristics of sodium lauryl ether sulfate derivatives to lipid films as biomembrane models (Grad. Sch. Eng., Utsunomiya Univ.) ○SHIMURA, Tsukasa; TAKAHASHI, Yuya; IIMURA, Ken-ichi; YAMADA, Shinji; TAKAHASHI, Yutaka
1C2-09 Study on the SDA model accounting for material characteristics of perfluoroalkyl compounds by surface potential measurements (ICR, Kyoto Univ.; Grad. Sch. Sci. Tech., Gunma Univ.; SCRC, AIST) ○TANAKA, Yuki; SHIMOAKA, Takafumi; MORITA, Kohei; SONOYAMA, Masashi; TAKAGI, Toshiyuki; KANAMORI, Toshiyuki; HASEGAWA, Takeshi
1C2-10* Hydrophobic Modulation of Salt Bridge: Effect on E-field Responsive SAMs (Grad. Sch. Eng., The Univ. of Tokyo) ○TOH, Yoshimitsu; CHEN, Shuo; MASUDA, Takuya; NOGUCHI, Hidenori; UOSAKI, Kohei; AIDA, Takuzo
1C2-12** Fabrication of LB monolayers of Oxa[9]helicene derivatives and their photoelectrochemical properties (Grad. Sch. Eng., Utsunomiya Univ.) ○MIAH, Md Jalil; SHAHABUDDIN, Mohammad; SALIM, Mohammad; KARIKOMI, Michinori; NASUNO, Eri; KATO, Norihiro; IIMURA, Ken-ichi

Chair: IIMURA, Ken-ichi (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1C2-15, 1C2-17, 1C2-18,

1C2-20)

1C2-15* Mechanically induced reversible formation and decomposition of microcrystals at the air-water interface (MANA, NIMS) ○ISHIKAWA, Daisuke; YONAMINE, Yusuke; NAKANISHI, Waka; CHEUNG, David; HILL, Jonathan; ARIGA, Katsuhiko

1C2-17 Control of Fluorescent Properties of Amphiphilic Molecules at the Air-Water Interface (Grad. Sch. Fac. Sci. Technol., Tokyo Univ. of Sci.; MANA, NIMS) ○SAKAMOTO, Naoki; MICHIKAWA, Riko; NAKANISHI, Waka; KOMATSU, Hirokazu; SAKAI, Hideki; ARIGA, Katsuhiko

1C2-18* Bicomponent 2D self-assembled structures of heptazine derivatives at the solution-solid interface (Fac. Eng., Kagawa Univ.; Grad. Sch. Sci. Technol., Kumamoto Univ.) ○UEMURA, Shinobu; NAKAMURA, Yusuke; KUNITAKE, Masashi

1C2-20 Adsorption structures of dinitrobenzoic acid on the Ag(111) surface (RIKEN) ○KAZUMA, Emiko; JUNG, Jaehoon; OH, Junepyo; KIM, Yousoo

Thursday, March 26, PM

Chair: UEMURA, Shinobu (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1C2-28, 1C2-30, 1C2-31, 1C2-32)

1C2-28* Control of molecular orientation of porphyrin derivatives on gold single crystal surfaces (Pri. Org. Innovation and Excellence, Kumamoto Univ.) ○YOSHIMOTO, Soichiro; KAWAMOTO, Teppei; YASUNISHI, Sato; KURUSU, Yusuke

1C2-30 Structural Investigation of Adsorbed Surfactant Films at the Solid/Water Interface (Grad. Sch. Eng., Utsunomiya Univ.) ○YANAGISAWA, Ayaka; IIMURA, Ken-ichi; OISHI, Izumi; AONO, Megumi; HIROSAWA, Ichiro

1C2-31 Adsorption behavior of triazine thiol silane coupling agent on a polyamide surface studied by Quartz Crystal Microbalance and nano thermal analysis of triazine dithiol films (Grad. Sch. Eng., Iwate Univ.) ○HIRAHARA, Hidetoshi; AISAWA, Sumio; SANG, Jing; NAKAYAMA, Tamaki

1C2-32* Thermally activated transition with accompanying dimensional variation: Squaric acid on Au(111) (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.; RIKEN) ○UEJI, Kan; JUNG, Jaehoon; OH, Junepyo; MIYAMURA, Kazuo; KIM, Yousoo

Chair: TOYOTA, Taro (14 : 40~15 : 30)

* 14:30-14:40: interval for laptop PC connection.(1C2-35, 1C2-36, 1C2-37, 1C2-38, 1C2-39)

1C2-35 Electrochemical Characteristics of Self-Assembled Monolayer of Ferrocene-Oligo(*p*-phenyleneethynylene)-Linked Tripod-Shaped Trithiols on Au Substrate (Grad. Sch. Eng., Mie Univ.) ○KAWANO, Takashi; HASE, Takahiro; KITAGAWA, Toshikazu

1C2-36 High Efficiency Trapping of the Triplet Carbene Generated by Irradiation of Monolayer of Diaryldiazomethane (Grad. Sch. Eng., Mie Univ.; Mie Univ. Community-University Research Cooperation Center) ○NISHIWAKI, Keita; ODAKA, Masashi; HIRAI, Katsuyuki; KITAGAWA, Toshikazu

1C2-37 Fabrication and photofunctional properties of thin films of novel seleniophene derivatives (Fac. Sci., Toho Univ.) ○URINO, Hiroto; KODAIRA, Akira; DOUDA, Yuka; PAC, Cyoujinn; MORIYAMA, Hiroshi

1C2-38 Development of highly-ordered porous alumina with ultrafine pores through self-ordering process for template synthesis of quantum dot array (Grad. Sch. Sci. Eng., Yamaguchi Univ.) ○SHOIRIKI, Yusuke; HANAMURA, Ryo; KANEYASU, Shiro; HONDA, Kensuke

1C2-39 Arrayed monolayer of nanoparticles self-assembled onto the curved surface of glass cylinder with diameter of nanometer size. (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○SOGOSHI, Norihito

Chair: KITAGAWA, Toshikazu (15 : 40~16 : 20)

* 15:30-15:40: interval for laptop PC connection.(1C2-41, 1C2-42, 1C2-44)

1C2-41 Size control of liposome using ordered anodic porous alumina (Urban Environmental Sci., Tokyo Metropolitan Univ.) ○TSUNASHIMA, Kaori; YANAGISHITA, Takashi; MASUDA, Hideki

1C2-42* Characterization of Chiral Fatty Acid Vesicles and Its Application (Grad. Sch. Eng. Sci., Osaka Univ.) ○SUGA, Keishi; KONDO, Dai; OKAMOTO, Yukihiro; UMAKOSHI, Hiroshi

1C2-44 Glass-Adsorbed Vesicle Rupture: Induced Rupture Mechanisms by Pore Formation at the Surface-Bilayer Interface (MANA, NIMS) ○KATAOKA, Chiho

Chair: SOGOSHI, Norihito (16 : 30~17 : 10)

* 16:20-16:30: interval for laptop PC connection.(1C2-46, 1C2-47, 1C2-49)

1C2-46 Analysis of membrane anisotropy and permeability of dimerized ether phospholipid. (Grad. Sch. Sci. Tech., Gunma Univ.) ○TSUCHIDA, Naoyuki; TAKAGI, Toshiyuki; TAKAHASHI, Hiroshi; YOSHIHARA, Toshitada; TOBITA, Seiji; KANAMORI, Toshiyuki; SONOYAMA, Masashi

1C2-47* Asymmetry and Anisotropy on Molecular Diffusion in Artificial Lipid Membrane Emerged by Supported Substrate (EIRIS, Toyohashi Univ. of Tech.) ○MOTEGI, Toshinori; YAMAZAKI, Kenji; OGINO, Toshio;

TERO, Ryugo

1C2-49 Diffusion coefficient of lipid bilayer formed on graphene oxide measured by means of fluorescence single particle tracking (Toyohashi Univ. of Tech.) ○OKAMOTO, Yoshiaki; MOTEGI, Toshinori; IWASA, Seiji; SANDHU, Adarsh; TERO, Ryugo

Chair: TERO, Ryugo (17 : 20~18 : 00)

* 17:10-17:20: interval for laptop PC connection.(1C2-51, 1C2-52, 1C2-53, 1C2-54)

1C2-51 Measurement of membrane tension of the free-standing bilayer lipid membrane by laser-induced surface deformation spectroscopy (Grad. Sch. Eng., Chiba Univ.) ○TAKEI, Tomohiko; YAGUCHI, Tatsuya; NOMOTO, Tomonori; TOYOTA, Taro; FUJINAMI, Masanori

1C2-52 Spontaneous Chemical Oscillation Mechanism in water/oil/water system: Effect of halide ions in the electrolyte in the acceptor phase (Grad. Sch. Eng., Chiba Univ.) ○GOTO, Kazuma; NOMOTO, Tomonori; TOYOTA, Taro; FUJINAMI, Masanori

1C2-53 The role of the complexes to the amoeba-like motion of an oil droplet on an aqueous phase with cationic surfactant (Grad. Sch. Eng., Chiba Univ.) ○UEMOTO, Shoko; NOMOTO, Tomonori; TOYOTA, Taro; FUJINAMI, Masanori

1C2-54* Interaction of Cell Penetrating Peptides with Model Lipid Monolayer at Air/Water Interface: A Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy Study (ASI, RIKEN) ○ADHIKARI, Aniruddha; NIHONYANAGI, Satoshi; YAMAGUCHI, Shoichi; TAHARA, Tahei

Friday, March 27, AM

Chair: SAGISAKA, Masanobu (9 : 00~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2C2-01, 2C2-02, 2C2-03, 2C2-04, 2C2-05, 2C2-06)

2C2-01 Simulation-responsive structural color of a long-chain amidoamine derivative/toluene/water system (Fac. Eng., Tokyo Univ. of Sci.) ○AKAZAWA, Kazuki; ENDO, Hiroshi; KAWAI, Takeshi

2C2-02 Colloidal Stability of Emulsifier-free Oil-in-Water Emulsions: Effect of Water Soluble Solutes in Continuous Phase (Water) (Fac. Eng., Shinshu Univ.) ○INABA, Daisuke; SAKAI, Toshio

2C2-03 Colloidal Stability of Emulsifier-free Water-in-Oil Emulsions: Effect of Water Soluble Solutes in Water Droplets (Fac. Eng., Shinshu Univ.) ○OISHI, Taku; SAKAI, Toshio

2C2-04 Colloidal Stability of Emulsifier-free Oil-in-Water Emulsions: Effect of Third Component (Fac. Eng., Shinshu Univ.) ○YAMAMOTO, Ayumi; SAKAI, Toshio

2C2-05 Friction and tactile texture of wet hair covered with emulsions (Fac. Eng., Yamagata Univ.) ○YUUKI, Aita; YOSHIMUNE, Nonomura

2C2-06 Preparation of gel emulsions using L-lysine-based low molecular weight gelators (Fac. Textile Sci. Technol., Shinshu Univ.) ○ARAI, Shogo; HANABUSA, Kenji; SUZUKI, Masahiro

Chair: SAKAI, Toshio (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2C2-08, 2C2-10, 2C2-11, 2C2-12)

2C2-08* Stabilization of Water/Supercritical Carbon Dioxide Dispersion by Iso-stearyl Surfactants (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○SAGISAKA, Masanobu; KUDO, Kotaro; OASA, Junichi; NAGOYA, Shota; JAMES, Craig; YOSHIZAWA, Atsushi

2C2-10 Fabrication of Bowl-Type Polymer Particles Using Ternary Emulsions Consisting of Hydrocarbon Oil/Fluorocarbon Oil/Aqueous Surfactant Solution (Fac. Eng., Tokyo Univ. of Sci.) ○KANO, Mari; TAKAHASHI, Yutaka; KONDO, Yukishige

2C2-11 Application of supercooled water in monodisperse W/O emulsion for cryopreservation (Gifu Univ.) ○YAMANE, Kazuki; IWAMOTO, Satoshi; NAKAGAWA, Tomoyuki; YAMAUCHI, Ryo

2C2-12* Demulsification Behavior of Emulsions Prepared Using Stimuli-Responsive Surfactants (Fac. Eng., Tokyo Univ. of Sci.) ○TAKAHASHI, Yutaka; KOIZUMI, Nanami; KONDO, Yukishige

Chair: KONDO, Yukishige (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2C2-15, 2C2-17, 2C2-19, 2C2-20)

2C2-15* Preparation of Sugar Amphiphiles Having a Bulky Ion Pair as the Hydrophobic Site (Grad. Sch. Chi. Sci. and Eng., Hokkaido Univ.) ○YAMADA, Taihei; KOKADO, Kenta; SADA, Kazuki

2C2-17* Synthesis and Surface Activity of Surfactants with Urea Group (Fac. Eng., Kanagawa Univ.) ○ISHIDA, Yoshihito; SHIBUYA, Yumi; KAWAGUCHI, Haruma; KAMEYAMA, Atsushi

2C2-19 Synthesis of cyclic poly(oxyethylene) alkyl ethers and their unique self-assembling properties (Fac. Sci. Technol., Tokyo Univ. of Sci.; ISC, AIST) ○HIROSE, Yuki; TAIRA, Toshiaki; SAKAI, Kenichi; SAKAI, Hideki; KITAMOTO, Dai; IMURA, Tomohiro

2C2-20 Synthesis of amphiphilic *N*-heterocyclic carbene ligands and formation of metallomicelles as reaction media (Fac. Sci. Technol., Tokyo Univ. of Sci.; ISC, AIST) ○YANAGIMOTO, Takaya; TAIRA, Toshiaki; SAKAI, Kenichi; SAKAI, Hideki; KITAMOTO, Dai; IMURA, Tomohiro

Friday, March 27, PM

Chair: NONOMURA, Yoshimune (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2C2-28, 2C2-31, 2C2-32, 2C2-33)
- 2C2-28 CSJ Award for Young Chemists in Technical Development** A Study on the Function of the Foam in the Skin Cleansing (Kao Corp.) ○SONODA, Junko
- 2C2-31** Solution Properties of Quaternary Ammonium Salt Linear-type Trimeric Surfactants (Grad. Sch. Human. Sci., Nara Women's Univ.) ○MORITA, Tsukasa; YOSHIMURA, Tomokazu
- 2C2-32** Photoinduced Change in the Viscosity of Aqueous Surfactant Solutions Containing a Stilbene Derivative (Fac. Eng., Tokyo Univ. of Sci.) ○KISHIMOTO, Mai; TAKAHASHI, Yutaka; KONDO, Yukishige
- 2C2-33** Ester Functionalized Heterocyclic Gemini surfactants: Effect of Head Group on Self-Aggregation Properties (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○TANI, Misako; BHADANI, Avinash; ENDO, Takeshi; SAKAI, Kenichi; SAKAI, Hideki; ABE, Masahiko

Chair: TERANISHI, Toshiharu (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(2C2-49, 2C2-51, 2C2-53)
- 2C2-49[†]** Functionalisation and characterisation of magnetic nanoparticles for application in thermo-chemotherapy of cancer. (Sch. Mat. Sci., JAIST) ○HERVAULT, Aziliz; LIM, May; DUNN, Alexander; TANIKE, Toshiaki; MOTT, Derrick; MAENOSONO, Shinya; NGUYEN Thanh V.Q.
- 2C2-51[†]** XAFS structural characterisation of gold, silver and bimetallic colloids (Sch. Mat. Sci., JAIST; UCL Dept. Chem.) ○GODFREY, Ian James; MAENOSONO, Shinya; PARKIN, Ivan; SANKAR, Gopinathan
- 2C2-53[†]** Development of Zn/Al complex for intensive dispersion of SWCNT in water (Fac. Eng., Shinshu Univ.) ○KUKOBAT, Radovan; MINAMI, Daiki; BHARTI, Bhuvnesh; FUJIMORI, Toshihiko; HAYASHI, Takuya; KANEKO, Katsumi

Saturday, March 28, AM

Chair: YONEZAWA, Tetsu (9 : 20 ~10 : 40)

- * 9:10-9:20: interval for laptop PC connection.(3C2-03, 3C2-04, 3C2-05, 3C2-06, 3C2-07, 3C2-09)
- 3C2-03** Size Selective Synthesis of Biocompatible MPC Stabilized Au₂₅/Au₄ clusters and Their Photoluminescence (Fac. Chem. Materials and Bioeng., Kansai Univ.; Sch. Mat. Sci., JAIST) ○KAWASAKI, Hideya; YOSHIMOTO, Junya; YAMASHITA, Kazuko; ARUNEE, Sangsuwan; OSAKA, Issey; IWASAKI, Yasuhiko; ARAKAWA, Ryuichi
- 3C2-04** Withdrawn
- 3C2-05** Fluorescent behavior of pyrene derivatives (Grad. Sch. Sci. Eng., Yamaguchi Univ.) ○KASATANI, Kazuo; WATANABE, Yuji; MORITA, Yuki; OKAMOTO, Hiroaki
- 3C2-06** Au Ultrathin Nanorods: Length Control and Optical Properties (Grad. Sch. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.) ○TAKAHATA, Ryo; YAMAZOE, Seiji; KOYASU, Kiichirou; TSUKUDA, Tatsuya
- 3C2-07^{*}** Alcoholysis of Boron Nitride Nanotubes by Sonication Treatment (Grad. Sch. Sci., Eng., Tokyo Tech) ○SAWADA, Toshiaki; KIM, Dukeun; NAKAJIMA, Sayuka; KAWAUCHI, Susumu; ZHI, Chynyi; BANDO, Yoshio; GOLBERG, Dmitri; SERIZAWA, Takeshi
- 3C2-09^{*}** Preparation and Spectroscopic Properties of Hydrophobic Gold Nanoparticles Modified with a Photofunctional Molecule (Grad. Sch. Eng., Kyushu Univ.) ○ISHIDA, Takuya; TAKAHASHI, Yukina; YAMADA, Sunao

Chair: SERIZAWA, Takeshi (10 : 50~11 : 50)

- * 10:40-10:50: interval for laptop PC connection.(3C2-12, 3C2-13, 3C2-14, 3C2-15, 3C2-16, 3C2-17)
- 3C2-12** Fluorescent gold nanoparticles synthesized by matrix sputtering method with organic stabilizers (Grad. Fac. Eng., Hokkaido Univ.) ○ISHIDA, Yohei; SUMI, Taiki; YONEZAWA, Tetsu
- 3C2-13** Collection of metal nanoparticles onto the electrode and their application to photocatalytic reaction (Grad. Sch. Sci. Eng., Chuo Univ.) ○YONEMURA, Mari; AOKI, Takuya; NISHIDA, Naoki; TANAKA, Hideki
- 3C2-14** Synthesis and structural analysis of metallic nanocolloid by photo-reduction with photosensitizer (Grad. Sch. Sci. Eng., Chuo Univ.) ○NANJYO, Hiroki; IWAI, Ken; KINOSHITA, Naoya; NISHIDA, Naoki; TANAKA, Hideki
- 3C2-15** Motion control of TiO₂/Pt/Au nanomotor by UV light irradiation (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○SUZUKI, Takuma; HOSHI, Yoshinao; SHITANDA, Isao; ITAGAKI, Masayuki
- 3C2-16** Bubble Propelled Nanomotor based on a aggregation of Tiol-modified Pt/Au nanorod (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○KATOI, Ryo; HOSHI, Yoshinao; SHITANDA, Isao; ITAGAKI, Masayuki
- 3C2-17** A Bubble Propelled Nanomotor Based on Catalase-modified Polystyrene Particle (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○ASANO, Yusuke; AIKWA, Tatuo; HOSHI, Yoshinao; SHITANDA, Isao; ITAGAKI, Masayuki

Saturday, March 28, PM

Chair: KANO, Hirofumi (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(3C2-25, 3C2-28, 3C2-30)
- 3C2-25 Young Scholar Lectures of CSJ** Anomalous Hydrogen Bonding Structures in One-dimensional Nanopores (Grad. Sch. Sci., Chiba Univ.) ○OHBA, Tomonori
- 3C2-28^{*}** Adsorption Behavior of Small Aromatic Hydrocarbons on Cycloparaphenylenes and Their Crystal Structures (Grad. Sch. Sci., Nagoya Univ.; WPI-ITBM, Nagoya Univ.; ERATO, JST) ○SAKAMOTO, Hiroto; KAN, Kai; ITAMI, Kenichiro
- 3C2-30** Partial Surface Modification of Spherical Titanium Oxide Particles using a Silane Coupling Agent (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○ONO, Manabu; TAKESHI, Endo; TORIGOE, Kanjiro; SAKAI, Kenichi; ABE, Masahiko; SAKAI, Hideki

Chair: IYAMA, Taku (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(3C2-32, 3C2-34, 3C2-35, 3C2-36, 3C2-37)
- 3C2-32^{*}** Examination of solvent effects for protein adsorption on the surface of Cyclo Olefin Polymer(COP) (Grad. Sch. Eng., The Univ. of Tokyo; ZEON CORPORATION) ○NAGATOISHI, Satoru; ADACHI, Satoru; NISHIOKA, Hiroya; TSUMOTO, Kouhei
- 3C2-34** Evaluation of physical properties of blood-compatible polymers using by quartz-crystal microbalance with dissipation technique (Grad. Sch. Sci., Eng., Yamagata Univ.) ○XUE, Shenyao; KOBAYASHI, Shingo; TANAKA, Masaru; FURUSAWA, Hiroyuki
- 3C2-35** NMR Study on Rotational Dynamics of Water Adsorbed on Nafion at Low Temperature (ICR, Kyoto Univ.) ○WAKAI, Chihiro; SHIMOAKA, Takafumi; HASEGAWA, Takeshi
- 3C2-36** Carbon dioxide sorption and structural changes of amine-modified graphite oxide (Grad. Sch. Sci., Chiba Univ.) SASAKI, Manabu; OHBA, Tomonori; OKANO, Hirofumi
- 3C2-37** Carbon Nanopores for Efficient SF₆/N₂ Separation. (Grad. Sch. Sci., Chiba Univ.) ○TAKASE, Atsushi; KANO, Hirofumi; OHBA, Tomonori

Chair: UEDA, Takahiro (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(3C2-39, 3C2-41, 3C2-42, 3C2-43, 3C2-44)
- 3C2-39^{*}** Controlling electronic properties of pi conjugated oligomers inside carbon nanotubes: A computational study (KIT) ○YUMURA, Takashi
- 3C2-41** Study of adsorption behavior on metal sulfide introduced zeolite with various kinds of content (Fac. Sci. Tech., SIST) ○MURAMATSU, Yukino; MAYSUOKA, Yuki; YAMAZAKI, Satoshi
- 3C2-42** Alcohol adsorption properties on a one-dimensional copper-based complex with 1,3-di(4-pyridyl)propane as cross-linked ligands (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SUZUKI, Takayuki; KOTANI, Ryosuke; KONDO, Atsushi; MAEDA, Kazuyuki
- 3C2-43** Postsynthetic treatment of a flexible 2D Cu-based MOF to control gate adsorption behavior (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○MORIGUCHI, Fumiaki; MORIGUCHI, Fumiaki; MAEDA, Kazuyuki
- 3C2-44** Niobium oxide replica templated by porous 3D MOF(HKUST-1) (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) MAEDA, Kazuyuki; KONDO, Atsushi; ○YOSHIMORI, Makoto

Chair: MAEDA, Kazuyuki (16 : 30~17 : 40)

- * 16:20-16:30: interval for laptop PC connection.(3C2-46, 3C2-47, 3C2-48, 3C2-49, 3C2-51, 3C2-52)
- 3C2-46** Adsorption behavior of structure modified ordered mesoporous silica by ionic liquid. (Shinshu Univ. Diviation of science and Technology) ○KOREKANE, Yuriko; ASAKURA, Keisuke; IYAMA, Taku; OZEKI, Sumio
- 3C2-47** Solid-state NMR study of structure and dynamics of 2-methylimidazole linkers triggered by molecular adsorption (Grad. Sch. Sci., Osaka Univ.; The Museum of Osaka Univ.) ○NAKAI, Masako; YAMATANI, Tatsuya; UEDA, Takahiro
- 3C2-48[†]** Step-by-step fabrication of a highly oriented crystalline three-dimensional accordion-like porous coordination polymer thin film (Grad. Sch. Sci., Kyoto Univ.) ○HARAGUCHI, Tomoyuki; OTSUBO, Kazuya; SAKATA, Osami; FUJIWARA, Akihiko; KITAGAWA, Hiroshi
- 3C2-49^{*}** In-situ ultratrace detection technique of Cu₂O using surface plasmon resonance phenomenon generated on Cu nanostructures (Coll. Sci. Tech., Nihon Univ.) ○SUGAWA, Kosuke; TAMURA, Takahiro; OTSUKI, Joe
- 3C2-51** Highly Localized Oxidation Reaction of an Isolated Single-Walled Carbon Nanotube induced by Localized Plasmon Resonance (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○YOSHII, Takahiro; YASUDA, Satoshi; MURAKOSHI, Kei
- 3C2-52** In-situ SERS Observation to Investigate Optical Trapping of a Small Number Molecules at Metal Nanogap under Electrochemical Potential Control (Sch. Sci., Hokkaido Univ.) ○WAKISAKA, Yumi; SUZUKI, Kentaro; YASUDA, Satoshi; MURAKOSHI, Kei

Sunday, March 29, AM

Chair: KAWASAKI, Hideya (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4C2-01, 4C2-03, 4C2-04, 4C2-05)
- 4C2-01*** Evaluation of frictional property of DN iongel (Tsuruoka Nat. Coll. of Tech.) ○ARAFUNE, Hiroyuki; MIURA, Miki; KAMIJO, Toshio; MORINAGA, Takashi; TOMITA, Yuki; HOMMA, Saika; SATO, Takaya
- 4C2-03** Lubrication effect of thickener aqueous solutions on the skin surface (Grad. Sch. Sci., Eng., Yamagata Univ.) ○YAMAGUCHI, Azusa; NONOMURA, Yoshimune
- 4C2-04** Friction Force between DN Gel-Silica Sphere Evaluated by Resonance Shear Measurement (WPI-AIMR, Tohoku Univ.) REN, Huai-yin; ○MIZUKAMI, Masashi; TANABE, Tadao; FURUKAWA, Hidemitsu; KURIHARA, Kazuo
- 4C2-05*** Hierarchical Mesoporous Silica Films for Wear-Resistant Antireflection Coatings (Toyota Central R&D Labs., Inc.) ○MIZOSHITA, Norihiro; ISHII, Masahiko; KATO, Naohiko; TANAKA, Hiromitsu

Chair: NONOMURA, Yoshimune (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4C2-08, 4C2-09, 4C2-10, 4C2-11, 4C2-12, 4C2-13)
- 4C2-08** Characterization of Confined Ionic Liquids by the Synchrotron X-ray Diffraction Measurement (IMRAM, Tohoku Univ.) ○TOMITA, Kazuhito; NAKANO, Shinya; MIZUKAMI, Masashi; OHTA, Noboru; YAGI, Naoto; KURIHARA, Kazuo
- 4C2-09** Carbon materials synthesis via electrochemical reduction of carbon tetrabromide. (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○KIM, Jeheon; YASUDA, Satoshi; MURAKOSHI, Kei
- 4C2-10** Study on Electronic State of Single Layer Graphene by Probe Microscope (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○KUMAGAI, Ryota; YASUDA, Satoshi; MURAKOSHI, Kei
- 4C2-11** Observation of Dye-adsorbed Metal Nanostructure in Strong Coupling Regime by Dark-Filed Imaging (Sch. Sci., Hokkaido Univ.) ○KIMURA, Natsumi; OHNUKI, Atsuyori; SUZUKI, Kentaro; YASUDA, Satoshi; MURAKOSHI, Kei
- 4C2-12** Mechanism Elucidation of the Adhesion between Polyimide Films and Stainless Steel Substrates Using Hot Press Techniques (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○AKABORI, Hiroki; IJIMA, Kazutoshi; HASHIZUME, Mineo
- 4C2-13** Hydroxyapatite Deposition on Polyimide Film Surfaces Utilizing Ultrathin Polymer Layers Immobilized Using Hot Press Technique (Fac. Eng., Tokyo Univ. of Sci.) ○TAKADA, Kohei; KOUMARU, Shohei; MAEDA, Masashi; IJIMA, Kazutoshi; HASHIZUME, Mineo

Chair: MIZUKAMI, Masashi (11 : 20 ~ 11 : 50)

- * 11:10-11:20: interval for laptop PC connection.(4C2-15, 4C2-16, 4C2-17)
- 4C2-15** Photocurrent Rectification of Titanium Dioxide Single Crystalline Electrode modified by Monolayer Graphene (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○TSUNODA, Kiyoshi; TAKAHASHI, Ryosuke; SUZUKI, Kentaro; YASUDA, Satoshi; IWAI, Tomohiro; SAWAMURA, Masaya; MURAKOSHI, Kei
- 4C2-16** Photoelectrochemical Properties of Electrode Modified by Silver Nanoparticles Covered with J-Aggregate of Porphyrin Dye (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○ITAKURA, Keigo; KIMISAWA, Yusuke; SATO, Tomoo
- 4C2-17[#]** Water Bend Mode at the Air/Salt Solution by Heterodyne-Detected Vibrational Sum Frequency Generation (ASI, RIKEN) KUNDU, Achintya; ○NIHONYANAGI, Satoshi; YAMAGUCHI, Shoichi; TAHARA, Tahei

Sunday, March 29, PM

Chair: MATSUSHITA, Sachiko (13 : 00 ~ 14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(4C2-25, 4C2-27, 4C2-28, 4C2-29)
- 4C2-25[#]** Fabrication of Organic Covalent Networks on Copper Electrode and Their Cooperative Electron Transfer (Grad. Sch. Sci., Hiroshima Univ.) ○KUME, Shoko; MIZUTA, Tsutomu
- 4C2-27** Evaluation of ion-pairing between ferrocene modified electrode and counter anions using electrochemical surface forces apparatus (IMRAM, Tohoku Univ.) ○KASUYA, Motohiro; KURIHARA, Kazuo
- 4C2-28** Synthesis and Electrochemical Evaluation of Molybdenum disulfide (Sch. Sci., Hokkaido Univ.) ○TAKAHASHI, Ryosuke; YASUDA, Satoshi; MURAKOSHI, Kei
- 4C2-29[#]** Magnetic Relaxation in Solid-Liquid Interface of Fumed Silica/Electrolytic Solution Coexisting Systems (Grad. Sch. Eng., Kobe Univ.) ○MAKI, Hideshi; NAGATA, Shouhei; SOGAWA, Ren; MURAKAMI, Ryo; YAMAMOTO, Masahiro; MIZUHATA, Minoru

Chair: MIZUHATA, Minoru (14 : 10 ~ 15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(4C2-32, 4C2-33, 4C2-34, 4C2-35, 4C2-36, 4C2-37)
- 4C2-32** Specific surface free energy and morphology of NaCl single crystal. (Fac. Eng., Shinshu Univ.) ○HIRANO, Ami; SUZUKI, Takaomi

- 4C2-33** Polyimide Film-Titanium Substrate Covalent Adhesions Utilizing Surface Modifications (Fac. Eng., Tokyo Univ. of Sci.; Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○MISHIMA, Shoko; FUKAGAWA, Soichiro; IJIMA, Kazutoshi; HASHIZUME, Mineo
- 4C2-34** Effect of Surfactants on Immobilization of Poly(acrylic acid) on Poly (tetrafluoroethylene) Substrate Surfaces Using Supercritical Carbon Dioxide Impregnation Method (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○FURUKAWA, Akane; IJIMA, Kazutoshi; OTAKE, Katsuto; HASHIZUME, Mineo
- 4C2-35** Synthesis of polymer tube via layer-by-layer assembly of polymer on the surface of the interior of nanotube array (Grad. Sch. Eng., Kyushu Univ.) FUJIGAYA, Tsuyohiko; SADA, Takao; ○NAKASHIMA, Naotoshi
- 4C2-36** Oxygen plasma etching on two-dimensional colloidal crystals focusing on thermal deformation (Grad. Sch. Sci., Eng., Tokyo Tech) SANO, Shoya; ISOBE, Toshihiro; ○MATSUSHITA, Sachiko; NAKAJIMA, Akira
- 4C2-37** Dynamic and mechanical manipulation of fluidic species using a hierarchical wrinkle structure (Fac. Eng., Tokyo Univ. of Sci.) ○KIMURA, Toru; ENDO, Hiroshi; KAWAI, Takeshi

Room D1

Bldg.10 1011

Physical Organic Chemistry Structures and Properties

Thursday, March 26, AM

Chair: FURUKAWA, Shunsuke (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1D1-01, 1D1-02, 1D1-03, 1D1-05)
- 1D1-01** Synthesis and Optical Properties of Novel Chiral BODIPY (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○GOBO, Yuki; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 1D1-02** Fullerene Encapsulation of Concave Depth-Controllable Host Molecules Containing Phosphorus atom (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SUKEGAWA, Kimiya; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 1D1-03*** Motion Capture of a Single Synthetic Molecular Rotor by Optical Microscopy (Grad. Sch. Eng., The Univ. of Tokyo) ○IKEDA, Tomohiro; TAKEUCHI, Masayuki; IINO, Ryota; NOJI, Hiroyuki
- 1D1-05[#]** Reversible photochemical reactions in crystalline nanopore and molecular adsorption (Grad. Sch. Eng., The Univ. of Tokyo) ○SATO, Hiroshi; ZHENG, Yongtai; KITAGAWA, Susumu

Chair: KAWAI, Hidetoshi (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1D1-08, 1D1-09, 1D1-10, 1D1-11, 1D1-12, 1D1-13)
- 1D1-08** Synthesis and Electrochemical Property of TEMPO-substituted Supramolecular Gelator (Sch. Advanced Sci. Eng., Waseda Univ.) ○SAITO, Ann; SASADA, Yoshito; NISHIDE, Hiroyuki
- 1D1-09** Construction of Plumblylene Wire with Unique Molecular Arrangement (Grad. Sch. Sci., Eng., Saitama Univ.) ○AKIBA, Tomoki; FURUKAWA, Shunsuke; SAITO, Masaichi
- 1D1-10** Conformational Studies on Helical Oligothiophenes (Fac. Eng., The Univ. of Tokyo) ○UEDA, Michihisa; XIAO, Qi; ITOH, Yoshimitsu; AIDA, Takuzo
- 1D1-11** Dynamic Chiral Inversion of Thiophene-fused [12]Annulene (Fac. Eng., The Univ. of Tokyo) ○UEDA, Michihisa; ITOH, Yoshimitsu; AIDA, Takuzo
- 1D1-12** Structure and Dynamic Behavior of Laminated Porous Hexagonal Networks Composed of Triphenylene Hexacarboxylic Acid Derivative. (Grad. Sch. Eng., Osaka Univ.) ○IKENAKA, Nobuaki; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji
- 1D1-13** Structure and its Dynamic Properties of a Hydrogen-Bonded Low Density Hexagonal Network Based on a Dehydrobenzo[18]annulene Derivative (Grad. Sch. Eng., Osaka Univ.; ISIR, Osaka Univ.) ○NAKAGAWA, Shoichi; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji

Chair: YAMASHITA, Ken-ichi (11 : 20 ~ 12 : 00)

- * 11:10-11:20: interval for laptop PC connection.(1D1-15, 1D1-16, 1D1-17, 1D1-18)
- 1D1-15** Synthesis of 3¹-Amino-analogs of Bacteriochlorophyll-*d* and Their Self-aggregation (Ritsumeikan Univ. Graduate School of Life Sciences) TAMIAMI, Hitoshi; ○WATANABE, Hiroaki; MIZOGUCHI, Tadashi
- 1D1-16** Synthesis and Optical Properties of Chlorophyll Derivatives Possessing a Substituted Pyrazol Group at the C3 Position (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○KINOSHITA, Yusuke; TAMIAMI, Hitoshi
- 1D1-17** Substitution at the C13² position of methyl pheophorbide *a/a'* and their stereochemistry (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○OGASAWARA, Shin; TAMIAMI, Hitoshi
- 1D1-18** Solvent effects on the formation of monoprotonated dodecaphenyl-

porphyrin (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SUZUKI, Wataru; KOTANI, Hiroaki; ISHIZUKA, Tomoya; KOJIMA, Takahiko

Thursday, March 26, PM

Chair: SETAKA, Wataru (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(1D1-33, 1D1-35, 1D1-36, 1D1-37, 1D1-38)
- 1D1-33*** Synthesis of urea derivatives having triarylamine moieties and evaluation of their mixed-valence states (Grad. Sch. Mat. Sci., NAIST)
○TAHARA, Keishiro; NAKAKITA, Tetsufumi; OKITA, Takumi; KIKUCHI, Jun-ichi
- 1D1-35** Formation of Pillar[5]arene Multi-layer Films Using Layer-by-Layer Self Assembly (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.)
○TAKASHIMA, Shu; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
- 1D1-36** Shape Selective Vapor Adsorption of Hydrocarbons by Pillar[5]arene in Solid State (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; PRESTO, JST) ○SUETO, Ryuta; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
- 1D1-37** Structures and Properties of Porphyrin Dimers bridged by Modified Resorcinol Derivatives (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) YAMASHITA, Ken-ichi; ○KURAMOCHI, Narumi; SUGIURA, Ken-ichi
- 1D1-38** Structure and property of the M₂L helicates of cationic pyridinehexapyrrole (Grad. Sch. Sci., Kobe Univ.) ○SAITO, Daiki; SETSUNE, Jun-ichiro

Chair: YAMAMURA, Masaki (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(1D1-40, 1D1-41, 1D1-42, 1D1-43, 1D1-44)
- 1D1-40** Structural Analysis of a Tripodal Tricarboxylic Acid Dimer with Helical Chirality (Grad. Sch. Sci., Shizuoka Univ.) ○OWAKI, Masaki; MINODANI, Shochi; YAMANAKA, Masamichi
- 1D1-41** Solvent Controlled Interconversion between Two Kinds of Macrocyclic Boronic Esters (Grad. Sch. Sci., Eng., Tokyo Tech; CREST, JST)
○UCHIKURA, Tatsuhiko; ONO, Kosuke; IWASAWA, Nobuharu
- 1D1-42** Synthesis and Photophysical Properties of Pyrene-bridged Macrocage (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.)
○SHIONARI, Hirokuni; INAGAKI, Yusuke; YAMAGUCHI, Yamaguchi; SETAKA, Wataru
- 1D1-43** Synthesis and Birefringence of a Molecular Gyrotop with a Biphenylene (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.; Kagawa Sch. Pharm. Sci., Tokushima Bunri Univ.) ○FUJIWARA, Atsushi; INAGAKI, Yusuke; YAMAGUCHI, Kentaro; SETAKA, Wataru
- 1D1-44**** Synthesis of α -cyclodextrin-based size-complementary [3]rotaxane and its application to polymer systems (Tokyo Tech Department of Organic and Polymeric Materials; Grad. Sch. Sci., Eng., Tokyo Tech) ○AKAE, Yosuke; SOGAWA, Hiromitsu; TAKATA, Toshikazu

Chair: OGOSHI, Tomoki (16 : 40~17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(1D1-47, 1D1-48, 1D1-49, 1D1-50, 1D1-51, 1D1-52)
- 1D1-47** Effect of Flexibility of Axle Components on Shuttling Dynamics in [2] Rotaxane Molecular Shuttles (Grad. Sch. Eng. Sci., Osaka Univ.) HIROSE, Keiji; ○UMEZAKI, Shota; KANO, Ryohei; YOUNG, Philip G; TOBE, Yoshito
- 1D1-48** Molecular shuttling of a C₃ symmetrical [4]rotaxane in response to base and acid stimuli and the change in electrochemical and photophysical properties (Grad. Sch. Eng., Univ. of Fukui) ○UEDA, Masahiro; KIMURA, Masaki; KAWASAKI, Tsuneomi; TOKUNAGA, Yuji; HISADA, Kenji; MIYAGAWA, Shinobu
- 1D1-49** Synthesis and Structure of [2]Rotaxanes with Pyrrole Moiety (Fac. Sci., Tokyo Univ. of Sci.) ○MATSUOKA, Yusuke; MUTOH, Yuichiro; SAITO, Shinichi; KASAMA, Takeshi
- 1D1-50** Synthesis of a Homochiral [2]Rotaxane from a BINOL-derived Macrocyclic Phenanthroline (Fac. Sci., Tokyo Univ. of Sci.) ○HIRANO, Yoshihiro; MUTOH, Yuichiro; SAITO, Shinichi
- 1D1-51** Synthesis of π -conjugated [1]rotaxane anchor molecule having a junction unit to ITO substrate (Grad. Sch. Eng., Kyoto Univ.) ○KANEKO, Shunichi; MASAI, Hiroshi; TERAU, Jun; FUJIHARA, Tetsuaki; TSUJI, Yasushi
- 1D1-52** Construction of imine-bridged rotaxanes with a photoisomerizable station unit. (Fac. Sci., Tokyo Univ. of Sci.) ○IWAMOTO, Masaya; HATANO, Junya; MIYAKE, Tsukasa; KAWAI, Hidetoshi

Chair: JUN, Terao (17 : 50~18 : 40)

- * 17:40-17:50: interval for laptop PC connection.(1D1-54, 1D1-55, 1D1-57)
- 1D1-54** Synthesis of a Cryptand-based Rotaxane (Fac. Eng., OIT)
○MIYAKE, Kei; MURAOKA, Masahiro; NAKATSUJI, Yohji
- 1D1-55**** Synthesis of [3]Rotaxanes by the Combination of Transition Metal-catalyzed Coupling Reaction and Metal-template Method (Fac. Sci., Tokyo Univ. of Sci.) ○HAYASHI, Ryuto; MUTOH, Yuichiro; KASAMA, Takeshi; SAITO, Shinichi
- 1D1-57**** Synthesis of [3] rotaxanes from the [2]rotaxane-Cu Complex (Fac. Sci., Tokyo Univ. of Sci.) ○YAMASHITA, Yoshiaki; MUTOH, Yuichiro; YAMASAKI, Ryu; KASAMA, Takeshi; SAITO, Shinichi

Friday, March 27, AM

Chair: MORI, Tadashi (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2D1-01, 2D1-02, 2D1-03, 2D1-04, 2D1-05)
- 2D1-01** Study on essential factors for radical scavenging characteristics in carboxylic hydroquinone derivatives exerting as excellent antioxidants (Grad. Sch. Eng., Yokohama Natl. Univ.) ○KOTANI, Kohei; GOTOH, Hiroaki; SAKAKIBARA, Kazuhisa
- 2D1-02** Design and synthesis of new nitroxyl radicals with imidazolidine skeleton to improve stability (Grad. Sch. Eng., Yokohama Natl. Univ.) ○SHINYA, Nitta; HIROAKI, Gotoh; KAZUHISA, Sakakibara
- 2D1-03** Dynamic behavior of mobile protons in Guanidine-based Ionic Liquids. (Grad. Sch. Eng., Yokohama Natl. Univ.) ○AKIBA, Yuka; KOU, Bun; GOTOH, Hiroaki; SAKAKIBARA, Kazuhisa
- 2D1-04** Comparison of Degradation Mechanism of Triarylmethane dyes (Grad. Sch. Eng., Yokohama Natl. Univ.) ○NAKAGAWA, Sarara; GOTOH, Hiroaki; SAKAKIBARA, Kazuhisa
- 2D1-05*** Coordination-driven Folding and Assembly of Proline-rich Short Peptides (Grad. Sch. Eng., The Univ. of Tokyo) ○SAWADA, Tomohisa; MATSUMOTO, Asami; YAMAGAMI, Motoya; FUJITA, Makoto

Chair: INOKUMA, Yasuhide (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2D1-08, 2D1-10, 2D1-12, 2D1-13)
- 2D1-08*** Synthesis and Properties of Modified Amylose Containing Alkyl Spacer at Regular Intervals in the Main Chain (CRC, Hokkaido Univ.)
○KOYAMA, Yasuhito; NAKANO, Tamaki
- 2D1-10*** Monitoring self-assembly process of a dinuclear Pd(II) cage complex (1): observation of the dynamic behavior (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TANAKA, Naru; TSUJIMOTO, Yuya; KOJIMA, Tatsuo; HIRAOKA, Shuichi
- 2D1-12** Monitoring self-assembly process of a dinuclear Pd(II) cage complex (2): Theoretical study of the ligand exchange mechanism (International Coll. Arts Sci., Yokohama City Univ.) ○SAKUMA, Yui; MASHIKO, Takako; HIRAOKA, Shuichi; NAGASHIMA, Umpei; TACHIKAWA, Masanori
- 2D1-13** Monitoring the self-assembly process of a dinuclear Pd(II) cage complex (3): The effect of the flexibility of the ligand (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KAI, Shumpei; AKAGI, Shota; KOJIMA, Tatsuo; HIRAOKA, Shuichi

Chair: TOMINAGA, Masahide (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2D1-15, 2D1-16, 2D1-17, 2D1-18, 2D1-20)
- 2D1-15** Precise Functionalization of Triangular Organic Ligands and Its Self-Assembled Complexes (Grad. Sch. Eng., The Univ. of Tokyo) ○MORI, Masatoshi; SAWADA, Tomohisa; FUJITA, Makoto
- 2D1-16** Synthetic Study of Rotaxanes with Gate Functionality by Taking Advantage of Dynamic Covalent Bonding (Grad. Sch. Sci., Eng., Tokyo Tech) ○IDE, Chhiro; SASE, Syohei; GOTO, Kei
- 2D1-17** Enantiomeric Resolution of 5,5'-bitetraene (Fac. of Sci., Okayama Univ. of Sci.) ○TOYOTA, Shinji; MIYAJI, Ryutarou; YAMAMOTO, Yuta; WAKAMATSU, Kan; IWANAGA, Tetsuo
- 2D1-18*** Theoretical analysis of self-assembled gear-shaped amphiphile molecules and its nanocube in aqueous methanol solution (Grad. Sch. Nanobioscience, Yokohama City Univ.) ○MASHIKO, Takako; HIRAOKA, Shuichi; NAGASHIMA, Umpei; TACHIKAWA, Masanori
- 2D1-20** The Solvent Effect on the Self-Assembly Process of Octahedron-shaped Pd(II) Coordination Capsules (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KAI, Shumpei; TSUJIMOTO, Yuya; KOJIMA, Tatsuo; HIRAOKA, Shuichi

Friday, March 27, PM

Chair: SUGIYASU, Kazunori (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2D1-28, 2D1-29, 2D1-30, 2D1-31, 2D1-32, 2D1-33)
- 2D1-28** Formation of C₃-Symmetrical imine assembly through dynamic covalent bond (Grad. Sch. Sci., Shizuoka Univ.) ○NAKADA, Keiko; YAMANAKA, Masamichi
- 2D1-29** Synthesis and Dichlorism of a *p*-Benzoquinone-bridged Macrocage (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.; Kagawa Sch. Pharm. Sci., Tokushima Bunri Univ.) ○SATO, Kohei; INAGAKI, Yusuke; YAMAGUCHI, Kentaro; SETAKA, Wataru
- 2D1-30** Control of Thermoresponsiveness of Polymers Tethering Optically Active Parts by Adding Chiral Small Molecules (Sch. Sci., Hokkaido Univ.) ○NAYA, Masami; HAMANO, Yoshimi; KOKADO, Kenta; SADA, Kazuki
- 2D1-31** Photochromism of the 1,8-naphthalimide derivative with a cationic receptor (Grad. Sch. Eng., Tottori Univ.) ○NISHINO, Shoji; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki; IZAWA, Hironori
- 2D1-32** Dynamic helical cyclophanes: synthesis and chiroptical properties of quadruply-bridged two-layer structures based on a terephthalamide derivative (Fac. Sci., Hokkaido Univ.) ○KATOONO, Ryo; FUJIWARA, Kenshu; SUZUKI, Takanori

2D1-33 Structural and Spectral Switching of Multiply Catenated Complex Composed of Two Porphyrins and A Phthalocyanine (Grad. Sch. Sci., Nagoya Univ.) ○ITOH, Ryohei; YAMADA, Yasuyuki; OGINO, Sayaka; TANAKA, Kentaro

Chair: TOHNAI, Norimitsu (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2D1-35, 2D1-37, 2D1-38, 2D1-39, 2D1-40)
- 2D1-35*** Absolute structure determination of chiral compounds using chiral crystalline sponges (Grad. Sch. Eng., The Univ. of Tokyo) ○ARAI, Tatsuhiko; INOKUMA, Yasuhide; FUJITA, Makoto
- 2D1-37** Absolute structure determination of axially chiral compounds by the crystalline sponge method (Grad. Sch. Eng., The Univ. of Tokyo) ○YOSHIOKA, Shota; INOKUMA, Yasuhide; YAMAGUCHI, Kazuya; YAMAGUCHI, Junichiro; ITAMI, Kenichiro; FUJITA, Makoto
- 2D1-38** A hexagonal-shaped adamantane-based macrocycle: synthesis, crystal structure, and sphere formation (Kagawa Sch. Pharm. Sci., Tokushima Bunri Univ.; CAI, Chiba Univ.) TOMINAGA, Masahide; ○KUNITOMI, Nobuto; ITOH, Tsutomu; OHARA, Kazuaki; YAMAGUCHI, Kentaro
- 2D1-39** Self-assembly behavior of adamantane-based macrocycles containing salen parts (Kagawa Sch. Pharm. Sci., Tokushima Bunri Univ.; CAI, Chiba Univ.) ○TOMINAGA, Masahide; UKAI, Hiroyuki; ITOH, Tsutomu; OHARA, Kazuaki; YAMAGUCHI, Kentaro
- 2D1-40** Preparation and chiral-memory function of novel dihydrophenanthrene-type dyrex systems attached with hydrogen-bonding sites (Fac. Sci., Hokkaido Univ.) ○SAKANO, Yuto; KATOONO, Ryo; FUJIWARA, Kenshu; SUZUKI, Takanori

Chair: TSUDA, Akihiko (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(2D1-42, 2D1-43, 2D1-44, 2D1-45, 2D1-46)
- 2D1-42** Experimental and Theoretical Investigations of the Circular Dichroism of Dynamic Chirality of Hexaarylbzenes with Chiral Auxiliaries (Grad. Sch. Eng., Osaka Univ.) KOSAKA, Tomoyo; ○MORI, Tadashi; FUKUHARA, Gaku; INOUE, Yoshihisa
- 2D1-43** Chirality Induction of Cyclic π -Electronic Systems by Inner Modifications (Coll. Pharm. Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; ○NAITO, Wakana
- 2D1-44*** Synthesis and Guest Exchange of Sugar Sponge (Grad. Sch. Eng., The Univ. of Tokyo; PRESTO, JST) ○NING, Guo-hong; INOKUMA, Yasuhide; FUJITA, Makoto
- 2D1-45** Application of the crystalline sponge method to the synthetic chemistry (Grad. Sch. Eng., The Univ. of Tokyo) ○YOSHIOKA, Shota; INOKUMA, Yasuhide; FUJITA, Makoto
- 2D1-46** Structural analysis for basketene by crystalline sponge methods (Grad. Sch. Eng., The Univ. of Tokyo) ○SATO, Hiroshi; ARAI, Tatsuhiko; YOSHIOKA, Shota; INOKUMA, Yasuhide; FUJITA, Makoto

Chair: YAGAI, Shiki (16 : 50~17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(2D1-48, 2D1-50, 2D1-51, 2D1-52)
- 2D1-48*** Construction of Porous Organic Salts(POSs) Composed of 2-Sulfophenyl Anthracene : Structural Conversion and Fluorescent Modulation in Responsive to Guest Molecular Information (Grad. Sch. Eng., Osaka Univ.; ISIR, Osaka Univ.) ○MIYANO, Tetsuya; YAMAMOTO, Atsushi; HISAKI, Ichiro; MIYATA, Mikiji; TOHNAI, Norimitsu
- 2D1-50** Figure-of-eight helical chirality: Dynamic helical structures of terephthalamide macrocycles and control of helical preferences (Fac. Sci., Hokkaido Univ.) KATOONO, Ryo; ○TANAKA, Yuki; FUJIWARA, Kenshu; SUZUKI, Takanori
- 2D1-51** Design of dynamic double helical structures based on a terephthalamide macrocycle and control of helical preferences (Fac. Sci., Hokkaido Univ.) KATOONO, Ryo; ○KAWAI, Shunsuke; FUJIWARA, Kenshu; SUZUKI, Takanori
- 2D1-52*** Programming of the time-evolution of supramolecular assembly in far-from-equilibrium thermodynamic system (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; NIMS Polymer Materials Unit) ○FUKUI, Tomoya; OGI, Soichiro; SUGIYASU, Kazunori; TAKEUCHI, Masayuki

Chair: KATOONO, Ryo (18 : 00~18 : 40)

- * 17:50-18:00: interval for laptop PC connection.(2D1-55, 2D1-56, 2D1-57, 2D1-58)
- 2D1-55** Mechanistic insight into the formation of self-assembled nanoring (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki; ○ARATSU, Keisuke; KARATSU, Takashi; KITAMURA, Akihide
- 2D1-56** Controls of an Acoustic Alignment of a Perylenebisimide Supramolecular Nanofiber through Substituent Modifications (Sch. Sci., Kobe Univ.) ○HOTTA, Yasuhisa; TSUDA, Akihiko
- 2D1-57** Synthesis and property of chiral ionic plastic crystal consisting of choline derivatives (Grad. Sch. Eng., Kyushu Univ.; Kyushu Univ. CMS; PRESTO, JST; Grad. Sch. Sci., Kyoto Univ.) ○SHIMONO, Tomoya; MATSUKI, Masaya; YAMADA, Teppi; DEKURA, Shun; KITAGAWA, Hiroshi; KIMIZUKA, Nobuo
- 2D1-58** Synthesis and ion conductive property of chiral plastic crystals (Grad. Sch. Eng., Kyushu Univ.; Grad. Sch. Sci., Kyoto Univ.; Kyushu

Univ. CMS; PRESTO, JST) ○MATSUKI, Masaya; YAMADA, Teppi; DEKURA, Shun; KITAGAWA, Hiroshi; KIMIZUKA, Nobuo

Saturday, March 28, AM

Chair: SEKIYA, Ryo (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3D1-01, 3D1-02, 3D1-03, 3D1-04, 3D1-05)
- 3D1-01** Development of triply-branched host compounds with multiple anthracene panels (Chem. Res. Lab., Tokyo Tech) ○SUZUKI, Akira; YOSHIZAWA, Michito; AKITA, Munetaka
- 3D1-02** Micelle-like Molecular Capsules with Anthracene Shells: Encapsulation and Catalytic Reactivity of Metalloporphyrins (Chem. Res. Lab., Tokyo Tech) ○OMAGARI, Takumi; SUZUKI, Akira; YOSHIZAWA, Michito; AKITA, Munetaka
- 3D1-03** Geometrically Restricted Intermediates in the Self-Assembly of an M12L24 Cuboctahedral Complex (Grad. Sch. Eng., The Univ. of Tokyo) ○YOKOYAMA, Hiroyuki; UEDA, Yoshihiro; FUJITA, Daishi; SATO, Sota; FUJITA, Makoto
- 3D1-04** Self-Assembly of $M_{30}L_{60}$ Icosidodecahedral Complex (Grad. Sch. Eng., The Univ. of Tokyo) ○UEDA, Yoshihiro; YOKOYAMA, Hiroyuki; FUJITA, Daishi; HOSHINO, Manabu; SATO, Sota; FUJITA, Makoto
- 3D1-05**** Giant M_nL_{2n} Complexes Self-assembly from Selenophene-cored Ligands (Grad. Sch. Eng., The Univ. of Tokyo) ○FUJITA, Daishi; UEDA, Yoshihiro; YOKOYAMA, Hiroyuki; SATO, Sota; FUJITA, Makoto

Chair: HISAKI, Ichiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3D1-08, 3D1-09, 3D1-10, 3D1-11, 3D1-12, 3D1-13)
- 3D1-08** Encapsulation of an Enzyme within M12L24 Spherical Complexes (Grad. Sch. Eng., The Univ. of Tokyo) ○FUJII, Yuya; FUJITA, Daishi; FUJITA, Makoto
- 3D1-09** Supramolecular Giant Ring: Self-Assembly of a Dumbbell Type of Hydrogen-Bonded Cavitands (Grad. Sch. Sci., Shizuoka Univ.; Grad. Sch. Eng., Nagoya Univ.) ○KAJIHARA, Takanori; KISHIMOTO, Kazuki; KINOSHITA, Keita; TAKANO, Atsushi; MATSUSHITA, Yusyu; KOBAYASHI, Kenji
- 3D1-10** Self-Assembled Expanded Pyridyl-Cavitand Capsules Based on Metal-Coordination Bonds (Grad. Sch. Sci., Shizuoka Univ.) ○NAKAMURA, Munehika; KISHIMOTO, Kazuki; KOBAYASHI, Kenji
- 3D1-11** A Quatrefoil Type of Cavitand: 4:1 Self-Assembled Architecture of Rh-Porphyrin and Tetra(4-pyridyl)-Cavitand Derivatives (Grad. Sch. Sci., Shizuoka Univ.) ○KISHIMOTO, Kazuki; KOBAYASHI, Kenji
- 3D1-12** Chiral Memory in Dissymmetric Space of Self-assembled Capsule (Grad. Sch. Sci., Hiroshima Univ.) ○IMAMURA, Taisuke; FUKUTA, Katsunori; SEKIYA, Ryo; HAINO, Takeharu
- 3D1-13** Synthesis and guest behavior of octaphosphonate biscavitand (Grad. Sch. Sci., Hiroshima Univ.; Fac. Sci., Hiroshima Univ.) ○SHIMOYAMA, Daisuke; YAMADA, Hitomi; IKEDA, Toshiaki; SEKIYA, Ryo; HAINO, Takeharu

Chair: HAINO, Takeharu (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(3D1-15, 3D1-16, 3D1-17, 3D1-19)
- 3D1-15** Chiral Self-Assembled Boronic Ester Cavitand Capsule (Grad. Sch. Sci., Shizuoka Univ.) ○OISHI, Ayumi; TAMAKI, Kento; TANAKA, Yasutaka; KOBAYASHI, Kenji
- 3D1-16** Effect of Dendron-Azobenzene Side Chains on Photoresponsive Self-Assembled Capsules (Grad. Sch. Sci., Shizuoka Univ.) ○HASHI, Toshifumi; SAKANO, Tsubasa; TOGARI, Yuka; KOBAYASHI, Kenji
- 3D1-17*** Solubilization of Nanocarbons in Water Using a V-Shaped Amphiphilic Anthracene Dimer (Chem. Res. Lab., Tokyo Tech) ○KONDO, Kei; YOSHIZAWA, Michito; AKITA, Munetaka
- 3D1-19** Solid-State Fluorescent Properties of Anthracene Dimers with Multi-Alkyl Chains (Chem. Res. Lab., Tokyo Tech) ○SEKIGUCHI, Shoya; KONDO, Kei; SEI, Yoshihisa; YOSHIZAWA, Michito; AKITA, Munetaka

Saturday, March 28, PM

Chair: IKEDA, Atsushi (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(3D1-34, 3D1-35, 3D1-36, 3D1-37, 3D1-38, 3D1-39)
- 3D1-34*** Behavior of Adduct Formation between Boroxine Cages with Lewis Bases (Grad. Sch. Sci., Eng., Tokyo Tech; CREST, JST) ○ONO, Kosuke; IWASAWA, Nobuharu
- 3D1-35** Spiroborate-type Molecular Connecting Modules Bearing Amide Groups (Konan Univ. Graduate School of Natural Science) ○NAKATANI, Mizuki; KAWANISHI, Hiroko; DANJO, Hiroshi; KATAGIRI, Kousuke; MIYAZAWA, Toshifumi; KAWAHATA, Masatoshi; YAMAGUCHI, Kentaro
- 3D1-36** Preparation of Spiroborate-type Hollow Structures (Konan Univ. Graduate school of natural science) ○KIDENA, Yuki; NOGAMINE, Ayumi; MASUDA, Yuhki; DANJO, Hiroshi; KATAGIRI, Kosuke; MIYAZAWA, Toshifumi; KAWAHATA, Masatoshi; YAMAGUCHI, Kentaro

- 3D1-37** Preparations of Water-Soluble Porphyrin Derivatives Carrying Oligoethylene Glycol Chains and Self-Assembly Behaviors in Water (Grad. Sch. Pharm., Kyushu Univ.) ○TATEYAMA, Taiko; KARASAWA, Satoru; KOGA, Noboru
- 3D1-38** Self-assembly Behavior in Water of Amphiphilic Molecules Having Various Intermolecular Binding Site (Grad. Sch. Pharm., Kyushu Univ.) ○OKAMOTO, Yuna; OHASHI, Eriko; KARASAWA, Satoru; KOGA, Noboru
- 3D1-39** Preparation and Physical Properties in Water of Fluorescence Imaging Probe in Response to Heat. (Grad. Sch. Pharm., Kyushu Univ.) ○ARAKI, Takeru; SHIMADA, Takashi; MURAYAMA, Shuhei; KARASAWA, Satoru; AOKI, Ichio; SAGA, Tsuneo; KOGA, Noboru

Chair: KARASAWA, Satoru (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(3D1-41, 3D1-42, 3D1-43, 3D1-44, 3D1-45, 3D1-46)
- 3D1-41** Stability of lipid-membrane-incorporated hydrophobic aromatic molecules (Fac. Eng., Hiroshima Univ.) ○ASHIZAWA, Kengo; HINO, Shodai; SUGIKAWA, Kouta; IKEDA, Atsushi
- 3D1-42** Preparation of lipid-membrane-incorporated hydrophobic photochromic molecules by the exchange method using cyclodextrins (Grad. Sch. Eng., Hiroshima Univ.; Grad. Sch. Mat. Sci., NAIST) ○HINO, Shodai; IKEDA, Atsushi; ASHIZAWA, Kengo; SUGIKAWA, Kouta; KIKUCHI, Jun-ichi; TSUKAMOTO, Manami; YASUHARA, Kazuma
- 3D1-43** Porphyrin-Exchange Method Permitting the Preparation of Lipid-Membrane-Incorporated Porphyrin (Grad. Sch. Eng., Hiroshima Univ.; Grad. Sch. Mat. Sci., NAIST) IKEDA, Atsushi; ○HINO, Shodai; SUGIKAWA, Kouta; KIKUCHI, Jun-ichi; TSUKAMOTO, Manami; YASUHARA, Kazuma
- 3D1-44** Metal-Organic Nanotubes Consisting of Non-Symmetrical Ferrocene Ligands (Fac. Eng., The Univ. of Tokyo) ○ODOI, Kakeru; FUKINO, Takahiro; AIDA, Takuzo
- 3D1-45** Optically Active Metal-Organic Nanotube (I) (Grad. Sch. Eng., The Univ. of Tokyo) ○YAMAGISHI, Hiroshi; FUKINO, Takahiro; AIDA, Takuzo
- 3D1-46** Optically Active Metal-Organic Nanotube (II) (Grad. Sch. Eng., The Univ. of Tokyo) ○YAMAGISHI, Hiroshi; FUKINO, Takahiro; AIDA, Takuzo

Chair: IKEDA, Toshiaki (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(3D1-48, 3D1-49, 3D1-50, 3D1-51, 3D1-52)
- 3D1-48[#]** Development of 2D Conductive Materials by Self-Assembly of C60-Functionalized Tripodal Triptycenes (Chem. Res. Lab., Tokyo Tech) ○LEUNG, Franco King-chi; ISHIWARI, Fumitaka; SHOJI, Yoshiaki; KAJITANI, Takashi; SAEKI, Akinori; SEKI, Shu; FUKUSHIMA, Takanori
- 3D1-49[#]** Synthesis and Assembly Behavior of Novel Tripodal Triptycenes Having π -Extended Propeller Blades (Chem. Res. Lab., Tokyo Tech) ○SEIKI, Noriya; SHOJI, Yoshiaki; SAEKI, Akinori; SEKI, Shu; FUKUSHIMA, Takanori
- 3D1-50** Synthesis of Modified Oligopyrroles That Provide Assembled Structures (Coll. Pharm. Sci., Ritsumeikan Univ.) ○NAKAMURA, Kazuto; MAEDA, Hiromitsu
- 3D1-51** Synthesis and Assemblies of Charged Metal Complexes of π -Electronic Systems (Coll. Pharm. Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; ○KAWASHITA, Kenji
- 3D1-52** Synthesis and Function of pH-Responsive Nanogels Containing Fullerenes (Fac. Eng., Hiroshima Univ.) ○KUBO, Atsuki; SUGIKAWA, Kouta; IKEDA, Atsushi

Sunday, March 29, AM

Chair: ABE, Hajime (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4D1-01, 4D1-02, 4D1-03, 4D1-05, 4D1-06)
- 4D1-01** A Hierarchical Supramolecular System Self-Assembled from Helical Building Blocks (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TIMS, Univ. of Tsukuba) ○KIMURA, Hikaru; NAKAMURA, Takashi; NABESHIMA, Tatsuya
- 4D1-02[#]** Acid-Base Triggered Extension/Contraction Motion of a Double-Stranded Boron Helicate Bearing Bipyridyl Units (Grad. Sch. Eng., Nagoya Univ.) ○SUZUKI, Yoshimasa; NAKAMURA, Taiki; YAMAMOTO, Shinya; TAURA, Daisuke; IIDA, Hiroki; OUSAKA, Naoki; YASHIMA, Eiji
- 4D1-03[#]** Molecular Recognition with a Double-Stranded Boron Helicate bearing a Helical Cavity consisting of a Bisporphyrin (Grad. Sch. Eng., Nagoya Univ.) ○YAMAMOTO, Shinya; IIDA, Hiroki; OUSAKA, Naoki; YASHIMA, Eiji
- 4D1-05** Fibril Film Formation of Pseudoenantiomeric Oxymethylenelicene Oligomers Involving Molecular Structural Change on the Solid Surfaces (Grad. Sch. Pharm. Sci., Tohoku Univ.) SHIGENO, Masanori; ○SAWATO, Tsukasa; YAMAGUCHI, Masahiko
- 4D1-06** Synthesis of Bis(branched-oligoethynyl)helicenes (Grad. Sch. Pharm. Sci., Tohoku Univ.) SHIGENO, Masanori; ○KONDO, Yutaro; AMEMIYA, Ryo; YAMAGUCHI, Masahiko

Chair: MAEDA, Hiromitsu (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4D1-08, 4D1-09, 4D1-10, 4D1-11, 4D1-12, 4D1-13)
- 4D1-08** Cooperative self-assembly of benzotrithiophene derivative possessing phenylisoxazolyl moieties (Grad. Sch. Sci., Hiroshima Univ.) ○ADACHI, Hiroaki; IKEDA, Toshiaki; HAINO, Takeharu
- 4D1-09** Synthesis and Higher-Order Structures of Plate-Shaped Ethynylpyridine Macrocycles by π -Stacking Interaction (Grad. Sch. Pharm. Sci., Univ. of Toyama) ○SUZUKI, Daiki; ABE, Hajime; INOUE, Masahiko
- 4D1-10** Synthesis and Properties of a D_{3h} -Symmetrical, Acetylene-Linked Pyridine/Benzyl Alcohol Macrocyclic (Grad. Sch. Pharm. Sci., Univ. of Toyama) ○YUMOTO, Ryouta; ABE, Hajime; INOUE, Masahiko
- 4D1-11** D_{3h} -Symmetrical Pyridine-Phenol Alternating Macrocyclic Hosts that Strongly Recognize Saccharides by Push-Pull Type Hydrogen-Bonding Network (Grad. Sch. Pharm. Sci., Univ. of Toyama) ○YONEDA, Tetsuhiro; OISHI, Yuki; ABE, Hajime; INOUE, Masahiko
- 4D1-12** Molecular Function of Counting the Numbers 1 and 2 Exhibited by Sulfonamidohelicene Tetramer (Grad. Sch. Pharm. Sci., Tohoku Univ.) ○SHIGENO, Masanori; KUSHIDA, Yo; KOBAYASHI, Yuta; YAMAGUCHI, Masahiko
- 4D1-13** Self-catalysis by sulfonamidohelicene tetramer in the random-coil to helix-dimer transition (Grad. Sch. Pharm. Sci., Tohoku Univ.) SHIGENO, Masanori; ○KUSHIDA, Yo; YAMAGUCHI, Masahiko

Chair: YAMANAKA, Masamichi (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4D1-15, 4D1-17, 4D1-19, 4D1-20)
- 4D1-15*** Stabilization of Chiral Helical Structures of Ethynylpyridine Polymers by Sc(III) Coordination (Grad. Sch. Pharm. Sci., Univ. of Toyama) ○MAKIDA, Hiroki; ABE, Hajime; INOUE, Masahiko
- 4D1-17*** Recognition and Solid-Liquid Extraction of Saccharides by Alternating Oligomers Consisted of Pyridines as a Hydrogen-Bonding Acceptor and Phenols as a Donor (Grad. Sch. Pharm. Sci., Univ. of Toyama) ○YUKI, Oishi; ABE, Hajime; INOUE, Masahiko
- 4D1-19** A Linear Double-Stranded Supramolecular Polyporphyrin Ladder (Sch. Sci., Kobe Univ.) ○KOSE, Kohji; OSUKA, Atsuhiko; TSUDA, Akihiko
- 4D1-20** Allosteric control of the ligand-binding ability of zinc porphyrin using the regulatory molecule (Grad. Sch. Sci., Osaka City Univ.) ○SASAKI, Yoshito; KOZAKI, Masatoshi; SUZUKI, Shuichi; OKADA, Keiji

Sunday, March 29, PM

Chair: KOZAKI, Masatoshi (13 : 30~13 : 50)

- * 13:20-13:30: interval for laptop PC connection.(4D1-28, 4D1-30, 4D1-31, 4D1-32, 4D1-33)
- 4D1-28*** Structures and Functions of Polythiophene/ Cholesterol Complex (ISIT Nanotechnology Laboratory) ○TUCHIYA, Youichi; SHINKAI, Seiji
- Chair: KOZAKI, Masatoshi (13 : 50~14 : 30)
- 4D1-30** Chiral Selective Organogel Formation with α -Cyclodextrin (Grad. Sch. Eng., Osaka Univ.) ○TERAGAKI, Ayumi; KIDA, Toshiyuki; AKASHI, Mitsuru
- 4D1-31** Synthesis of the supramolecular-polymer type template of metal arrangement by using dendrimer (Chem. Res. Lab., Tokyo Tech) ○HIRABAYASHI, Yuki; ALBRECHT, Ken; YAMAMOTO, Kimihisa
- 4D1-32** Supramolecular metallogel formed via self-assembly of Pt(II) complex possessing bis(phenylisoxazolyl)phenylacetylene ligand (Fac. Sci., Hiroshima Univ.; Grad. Sch. Sci., Hiroshima Univ.) ○HIRANO, Kyohei; IKEDA, Toshiaki; HAINO, Takeharu
- 4D1-33** Supramolecular hydrogel constructed from two bis-urea compounds (Grad. Sch. Sci., Shizuoka Univ.) ○SAKO, Hiroki; YAMANAKA, Masamichi

Chair: OUSAKA, Naoki (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(4D1-35, 4D1-37, 4D1-39, 4D1-40)
- 4D1-35*** Design of Segregated Nanostructures Consisting of Electron Donor and Acceptor π -Conjugated Molecules (Grad. Sch. Eng., Osaka Univ.) ○SAKURAI, Tsuneaki; YONEDA, Satoru; TSUTSUI, Yusuke; SEKI, Shu
- 4D1-37*** Introduction of Linear Conjugated Units to Anion-Responsive π -Electronic Systems (Coll. Pharm. Sci., Ritsumeikan Univ.) ○YAMAKADO, Ryohei; MAEDA, Hiromitsu
- 4D1-39** Ion-pairing Assemblies Comprising Photo-Responsive Anions (Coll. Pharm. Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; ○IKEDA, Jun
- 4D1-40** Synthesis of Dipyrrolylpyrazoles as Anion-Responsive II-Systems Forming Dimension-Controlled Assemblies (Coll. Pharm. Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; ○TANI, Yasunao

Room D2

Bldg.10 1012

Physical Organic Chemistry Structures and Properties

Thursday, March 26, AM

Porphyrin, Phthalocyanine

Chair: SHIMIZU, Soji (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1D2-01, 1D2-03, 1D2-04, 1D2-05, 1D2-06)
- 1D2-01*** *Meso*-dibenzoporphycene (1) Synthesis, Structure and Spectroscopic Properties (Grad. Sch. Eng., Osaka Univ.; CRC, Hokkaido Univ.) ○OOHORA, Koji; OGAWA, Ayumu; HASAGAWA, Jun-ya; HAYASHI, Takashi
- 1D2-03** *Meso*-dibenzoporphycene (2) Substitution Effect at Fused Benzene Moiety (Grad. Sch. Eng., Osaka Univ.) ○TANAKA, Yasunobu; OGAWA, Ayumu; OOHORA, Koji; HAYASHI, Takashi
- 1D2-04** Synthesis and Characterization of 4-pyridyl Substituted Hexaphyrins (Grad. Sch. Sci., Kyoto Univ.) ○NAODA, Koji; OSUKA, Atsuhiko
- 1D2-05** Synthesis and Conversion of *meso*, β -halogenated porphyrins (Grad. Sch. Sci., Kyoto Univ.) ○FUKUI, Norihito; YORIMITSU, Hideki; OSUKA, Atsuhiko
- 1D2-06** Reductive transformation of diazaporphyrins (Grad. Sch. Eng., Nagoya Univ.) ○YAMAJI, Ayaka; MIYAKE, Yoshihiro; SHINOKUBO, Hiroshi
- Chair: SHINOKUBO, Hiroshi (10 : 10 ~ 11 : 10)
- * 10:00-10:10: interval for laptop PC connection.(1D2-08, 1D2-11, 1D2-12, 1D2-13)
- 1D2-08** Young Scholar Lectures of CSJ Development of azaporphyrin complexes with main-group elements (Grad. Sch. Sci., Tohoku Univ.) ○FURUYAMA, Taniyuki
- 1D2-11** Synthesis and Characterization of β -Hexasulfenyl Subporphyrins (Grad. Sch. Sci., Kyoto Univ.) ○YOSHIDA, Kota; OSUKA, Atsuhiko
- 1D2-12** Generation of Stable Organic Radical via One-electron Reduction of Phosphorus(V) Tetraazaporphyrin (Grad. Sch. Sci., Tohoku Univ.) ○YOSHIDA, Takuya; FURUYAMA, Taniyuki; KOBAYASHI, Nagao
- 1D2-13** Synthesis and Characterization of Planar Boron-embedded π -extended Porphyrin (Grad. Sch. Sci., Kyoto Univ.) ○FUJIMOTO, Keisuke; YORIMITSU, Hideki; OSUKA, Atsuhiko

Chair: FURUYAMA, Taniyuki (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1D2-15, 1D2-16, 1D2-18, 1D2-19, 1D2-20)
- 1D2-15** Synthesis and properties of expanded benzophthalocyanine (Sch. Sci., Tohoku Univ.) ○IIZUKA, Fumiya; SHIMIZU, Soji; KOBAYASHI, Nagao
- 1D2-16*** Structure and Physical Properties of Quadruply Fused Porphyrin (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SAEGUSA, Yuta; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko
- 1D2-18** Synthesis and properties of β , β -directly linked subporphyrin dimers (Grad. Sch. Sci., Kyoto Univ.) ○OKUDA, Yasuhiro; TSURUMAKI, Eiji; OSUKA, Atsuhiko
- 1D2-19** Synthesis and characterization of *meso*- β doubly linked corrole dimers (Grad. Sch. Sci., Kyoto Univ.) ○OOI, Shota; TANAKA, Takayuki; OSUKA, Atsuhiko
- 1D2-20** Synthesis and Characterization of Peripherally Silylated Porphyrins and Disilane-Bridged Porphyrin Dimers (Fac. Sci., Kyoto Univ.) ○KATO, Ken-ichi; FUJIMOTO, Keisuke; YORIMITSU, Hideki; OSUKA, Atsuhiko

Thursday, March 26, PM

Chair: YORIMITSU, Hideki (14 : 10 ~ 15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(1D2-32, 1D2-35, 1D2-36, 1D2-37)
- 1D2-32** Young Scholar Lectures of CSJ Development of organic π -electron systems toward utilization of near-infrared light (RIKEN) ○MURANAKA, Atsuya
- 1D2-35** Investigation on Dimerization Reaction of Phthalonitrile with Thiolate Anion and Its Application to the Synthesis of Expanded Phthalocyanines (Sch. Sci., Tohoku Univ.) ○SATO, Takehito; FURUYAMA, Taniyuki; KOBAYASHI, Nagao
- 1D2-36** Development of the novel synthetic method of 10-azacorroles (Grad. Sch. Eng., Nagoya Univ.) ○OMORI, Hiroto; HIROTO, Satoru; SHINOKUBO, Hiroshi
- 1D2-37** Regioselective Direct Functionalization of Antiaromatic Ni Norcorrole (Grad. Sch. Eng., Nagoya Univ.) ○NOZAWA, Ryo; YAMAMOTO, Keitaro; SHIN, Ji-young; HIROTO, Satoru; SHINOKUBO, Hiroshi

Chair: ISHIZUKA, Tomoya (15 : 20 ~ 16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(1D2-39, 1D2-41, 1D2-42, 1D2-43, 1D2-44)
- 1D2-39*** Synthesis and Aromaticity of Giant Expanded Porphyrins (Grad. Sch. Sci., Kyoto Univ.) ○YONEDA, Tomoki; OSUKA, Atsuhiko
- 1D2-41** π -extension on the periphery of quinoidal porphyrins (Kyoto Univ. Department of Chemistry, Graduate School of Science) ○UMETANI, Masataka; NAODA, Koji; TANAKA, Takayuki; OSUKA, Atsuhiko
- 1D2-42** Synthesis and properties of huge quinone compounds derived from fused porphyrin oligomers (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) YAMASHITA, Ken-ichi; ○FUJIMAKI, Keisuke; SUGIURA, Ken-ichi
- 1D2-43** Synthesis and properties of 5,10-porphyrinquinone using a hypervalent iodine compound (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) YAMASHITA, Ken-ichi; ○YODA, Takuya; SUGIURA, Ken-ichi
- 1D2-44** Syntheses and Properties of [28]Hexaphyrin-Silicon complexes (Grad. Sch. Sci., Kyoto Univ.) ○ISHIDA, Shin-ichiro; TANAKA, Takayuki; OSUKA, Atsuhiko

Chair: SUGIURA, Ken-ichi (16 : 30 ~ 17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(1D2-46, 1D2-48, 1D2-49, 1D2-51)
- 1D2-46*** Synthesis and Properties of Subporphyrin B-Hydrides. (Grad. Sch. Sci., Kyoto Univ.) ○TSURUMAKI, Eiji; OSUKA, Atsuhiko
- 1D2-48** Synthesis and Properties of Tetraazaporphyrin Group 14 Complexes (Sch. Sci., Tohoku Univ.) ○SHIMOOKA, Chihiro; FURUYAMA, Taniyuki; KOBAYASHI, Nagao

three-dimensional π -electron system

- 1D2-49*** Encapsulation Behavior of Bowl-Shaped C_{60} Derivatives toward Small Molecules (ICR, Kyoto Univ.) ○FUTAGOISHI, Tsukasa; MURATA, Michihisa; WAKAMIYA, Atsushi; MURATA, Yasujiro
- 1D2-51** Synthesis of Endohedral Azafullerene Encapsulating a Water Molecule (ICR, Kyoto Univ.; PRESTO, JST) ○HASHIKAWA, Yoshifumi; MURATA, Michihisa; WAKAMIYA, Atsushi; MURATA, Yasujiro

Chair: SEGAWA, Yasutomo (17 : 40 ~ 18 : 40)

- * 17:30-17:40: interval for laptop PC connection.(1D2-53, 1D2-55, 1D2-57, 1D2-58)
- 1D2-53*** Photoinduced electron transfer in peapod molecules composed of finite single-wall carbon nanotube molecules and fullerenes (Grad. Sch. Sci., Tohoku Univ.) ○HITOSUGI, Shunpei; OHKUBO, Kei; IIZUKA, Ryosuke; KAWASHIMA, Yuki; SATO, Sota; FUKUZUMI, Shunichi; ISOBE, Hiroyuki
- 1D2-55*** Molecular recognition in curved π -systems: Effects of π -lengthening of tubular molecules on thermodynamics and structures (WPI-AIMR, Tohoku Univ.; JST, ERATO) ○MATSUNO, Taisuke; SATO, Sota; IIZUKA, Ryosuke; ISOBE, Hiroyuki
- 1D2-57** Synthesis of distorted compounds by oxidation of aminophenanthrene derivatives (Grad. Sch. Eng., Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.) ○YOKOI, Hiroki; HIROTO, Satoru; SHINOKUBO, Hiroshi
- 1D2-58*** Synthesis of a new macrocyclic trimers based on hydroquinone dimes units and their physical properties. (Grad. Sch. Med., Yamaguchi Univ.) ○ISHIKAWA, Mari; WATANABE, Ryosuke; KAMIMURA, Akio

Friday, March 27, AM

three-dimensional π -electron system

Chair: HITOSUGI, Shunpei (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2D2-01, 2D2-02, 2D2-03, 2D2-04, 2D2-05, 2D2-06)
- 2D2-01*** A Practical Synthesis of [N]CPPs Using Tin-mediated Reductive Aromatization (ICR, Kyoto Univ.) ○PATEL, Vijay Kumar; KAYAHARA, Eiichi; YAMAGO, Shigeru
- 2D2-02** Synthesis and Characterization of Ruthenium-Cycloparaphenylene Complexes (ICR, Kyoto Univ.) ○KAYAHARA, Eiichi; PATEL, Vijay Kumar; KÜNDIG, E. Peter; MERCIER, Audrey; YAMAGO, Shigeru
- 2D2-03** Direct Functionalization of [5]Cycloparaphenylene (ICR, Kyoto Univ.) ○KAYAHARA, Eiichi; PATEL, Vijay Kumar; YAMAGO, Shigeru
- 2D2-04** Synthesis and Properties of Oxa-bridged Fused Pentacyclic System with Twisted Conjugation (Grad. Sch. Sci., Osaka City Univ.) ○SATO, Chihiro; KOZAKI, Masatoshi; SUZUKI, Shuichi; OKADA, Keiji
- 2D2-05** Synthesis of Helicene Derivatives through Oxidation of Hydroxyoligoacene (Grad. Sch. Eng., Nagoya Univ.) ○MATSUNO, Takashi; KOYAMA, Yutaro; KUMAR, Jatish; KAWAI, Tsuyoshi; HIROTO, Satoru; SHINOKUBO, Hiroshi
- 2D2-06** Chirality induction of twisted porphyrin dimers (Grad. Sch. Eng., Nagoya Univ.) ○ITO, Satoru; HIROTO, Satoru; SHINOKUBO, Hiroshi

Chair: KAYAHARA, Eiichi (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2D2-08, 2D2-09, 2D2-10, 2D2-12, 2D2-13)
- 2D2-08** Selective Functionalization of Cycloparaphenylene via Chromium

Complex (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○KUBOTA, Natsumi; SEGAWA, Yasutomo; ITAMI, Kenichiro

2D2-09 Synthesis and solvatofluorochromic property of an anthraquinone-containing carbon nanoring (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○KUWABARA, Takuya; ORII, Jun; SEGAWA, Yasutomo; ITAMI, Kenichiro

2D2-10* Molecular Nanocarbons encapsulating Li+@C60: Specific properties of the ionic supra molecules based on the charge transfer interaction (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○UENO, Hiroshi; MATSUI, Katsuma; NISHIHARA, Taishi; SEGAWA, Yasutomo; ITAMI, Kenichiro

2D2-12 Synthesis and Properties of 5,20-Oligothiophenyl-substituted Hexaphyrins (Grad. Sch. Sci., Kyoto Univ.) ○MORI, Hirotaka; SUZUKI, Masaaki; OSUKA, Atsuhiko

2D2-13 Synthesis and structural analysis of fused pyrene trimers (Grad. Sch. Mat. Sci., NAIST; CREST, JST) ○TAMOTO, Akira; ARATANI, Naoki; YAMADA, Hiroko

Chair: KAWASE, Takeshi (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(2D2-15, 2D2-17, 2D2-18, 2D2-19)

2D2-15** Synthesis of open-shell ladder π -systems enabled by catalytic dimerization of diarylacetylenes (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST; Oregon Univ.) ○MAEKAWA, Takehisa; ROSE, Bradley; SEGAWA, Yasutomo; HALEY, Michael; ITAMI, Kenichiro

2D2-17 Synthesis of Perfluorinated Cycloparaphenylene Derivative from Tetranuclear Platinum Complex (ICR, Kyoto Univ.) ○KONO, Taro; HASHIMOTO, Sigma; KAYAHARA, Eiichi; KURODA, Yasuhiro; SUZUKI, Toshiyasu; YAMAGO, Shigeru

2D2-18 Synthesis of Cyclic π -Conjugated Porphyrin Oligomer from Tetranuclear Platinum Complex (ICR, Kyoto Univ.) ○MAEDA, Yuuki; KAYAHARA, Eiichi; YAMAGO, Shigeru

2D2-19 Redox Behavior of Oxygenated Cycloparaphenylenes (ICR, Kyoto Univ.) ○ONISHI, Hiroaki; KAYAHARA, Eiichi; YAMAGO, Shigeru

Friday, March 27, PM

Chair: ITAMI, Kenichiro (13 : 20~14 : 20)

* 13:10-13:20: interval for laptop PC connection.(2D2-27, 2D2-30, 2D2-31)

2D2-27 Young Scholar Lectures of CSJ Synthesis of Highly distorted π -conjugated molecules based on aniline and phenol oxidation (Grad. Sch. Eng., Nagoya Univ.) ○HIROTO, Satoru

2D2-30 Electronic Structure and Complexation Studies of Thiactalixarene based on Dithienothiophene (Grad. Sch. Sci., Kitasato Univ.; Bruker AXS K. K.) ○INOUE, Ryota; HASEGAWA, Masashi; YOZA, Kenji; MAZAKI, Yasuhiro

2D2-31* Tetracyclo[2,7-Carbazole]: Aromatic Ring Current inside the Hoop (IMS; ICR, Kyoto Univ.) ○KURODA, Yasuhiro; SAKAMOTO, Youichi; SUZUKI, Toshiyasu; KAYAHARA, Eiichi; YAMAGO, Shigeru

Chair: HASEGAWA, Masashi (14 : 30~15 : 20)

* 14:20-14:30: interval for laptop PC connection.(2D2-34, 2D2-35, 2D2-36, 2D2-37)

2D2-34 Synthesis and properties of hexapyrrolohexaazacorone oligomers (Grad. Sch. Sci., Eng., Ehime Univ.) ○TAGAWA, Kazunari; ANDO, Chie; OKI, Kosuke; MORI, Shigeki; NAKAE, Takahiro; OKUJIMA, Tetsuo; UNO, Hidemitsu

2D2-35 Synthesis of Cyclophanes by Utilizing the Shapes of Components (Fac. Sci., Ehime Univ.) ○OKI, Kosuke; TAGAWA, Kazunari; ANDO, Chie; MORI, Shigeki; OKUJIMA, Tetsuo; UNO, Hidemitsu

2D2-36 Synthesis and Electrochemical Properties of Azacyclophanes Connecting Anthracenes with Triphenylamine Units (Fac. of Sci., Okayama Univ. of Sci.) ○IWANAGA, Tetsuo; YAMAUCHI, Tomokazu; TOYOTA, Shinji

2D2-37** Synthesis and Evaluation of Optically Active Dendrimers Based on a Planar Chiral Tetrasubstituted [2.2]Paracyclophane Core (Grad. Sch. Eng., Kyoto Univ.) ○GON, Masayuki; MORISAKI, Yasuhiro; CHUJO, Yoshiki

Chair: TAKASE, Masayoshi (15 : 30~16 : 30)

* 15:20-15:30: interval for laptop PC connection.(2D2-40, 2D2-41, 2D2-42, 2D2-43, 2D2-44, 2D2-45)

2D2-40 Synthesis of Planar Chiral Janus-Type Tetrasubstituted [2.2]Paracyclophanes (Grad. Sch. Eng., Kyoto Univ.) ○SAWADA, Risa; MORISAKI, Yasuhiro; CHUJO, Yoshiki

2D2-41 Synthesis and chiroptical properties of cyclic chiral [2.2]paracyclophane bridged by bithiophene (Sch. Sci., Kitasato Univ.) ○KOBAYAKAWA, Kousuke; HASEGAWA, Masashi; SAKO, Katsuya; MAZAKI, Yasuhiro

2D2-42 Synthesis and chiroptical properties of oligophenylenes based on *pseudo-ortho*[2.2]paracyclophane (Grad. Sch. Sci., Kitasato Univ.) ○SASAKI, Hiroaki; HASEGAWA, Masashi; MAZAKI, Yasuhiro

organic radicals

2D2-43 Generation and physical properties of oxidized pyrene derivatives (Grad. Sch. Mat. Sci., NAIST; CREST, JST) ○MATSUMOTO, Akinobu; ARATANI, Naoki; YAMADA, Hiroko

2D2-44 Synthesis and Electronic Properties of Nitrogen-Containing Planar π -Systems Substituted by delocalized Radicals (Grad. Sch. Eng., Osaka Univ.) ○KOBASHI, Toshiyuki; SAKAMAKI, Daisuke; SEKI, Shu

2D2-45 the redox properties of diarylamine linked phenothiazine derivatives (Grad. Sch. Sci., Osaka City Univ.) ○KARIMATA, Ayumu; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji

Chair: IWANAGA, Tetsuo (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(2D2-47, 2D2-49, 2D2-50, 2D2-51, 2D2-52)

2D2-47* Investigating the unusual electrocyclicization of biphenalenylidene with biradical character (Grad. Sch. Sci., Osaka Univ.) ○UCHIDA, Kazuyuki; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi

2D2-49 Organic Radical character in the Bis-Metal Complexes of Doubly N-Confused Hexaphyrin(1.1.1.1.1.0) (Grad. Sch. Eng., Kyushu Univ.) ○HISAMUNE, Yutaka; NISHIMURA, Keiichi; ISHIDA, Masatoshi; FURUTA, Hiroyuki

2D2-50 Syntheses and Properties of Azulene-based Bis(nitroxide) Diradical (Fac. Sci., Osaka City Univ.) ○HARAGUCHI, Makoto; TRETYAKOV, Evgeny; SUZUKI, Syuichi; KOZAKI, Masatoshi; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; OKADA, Keiji

2D2-51 Synthesis of zwitterionic singlet biradicaloid bisphenalenyl (Grad. Sch. Sci., Osaka Univ.) ○FURUKAWA, Kaori; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi

2D2-52 A synthesis of trioxotriangulene derivatives and their substituent effects (Grad. Sch. Eng., Osaka Univ.; KANEKA CORP.; CREST, JST; Fac. Eng., Aichi Inst. of Tech.) ○TAKEMOTO, Ichiki; MURATA, Tsuyoshi; TSUJI, Ryotaro; MORITA, Yasushi

Chair: SUZUKI, Shuichi (17 : 50~18 : 40)

* 17:40-17:50: interval for laptop PC connection.(2D2-54, 2D2-55, 2D2-56, 2D2-58)

2D2-54 Construction of Novel Sandwich Structure Toward the Stable Hydrogen Atom Trapping Based on PCET Mechanism (Grad. Sch. Sci., Osaka Univ.) ○TERAOA, Mitsuru; HIRAO, Yasukazu; NISHIUCHI, Tomohiko; KUBO, Takashi

2D2-55 Development and aggregation properties of multi-branched radicals with proton coupled electron transfer activity (Grad. Sch. Sci., Osaka Univ.) ○HATTORI, Issei; HIRAO, Yasukazu; NISHIUCHI, Tomohiko; KUBO, Takashi

2D2-56** σ -Aromaticity: Clarification by a Hexaarylbenzene Dication (Grad. Sch. Sci., Eng., Saitama Univ.; Grad. Sch. Sci., Rikkyo Univ.; FIFC, Kyoto Univ.) ○FURUKAWA, Shunsuke; FUJITA, Masahiro; KANATOMI, Yoshihiko; MINOURA, Mao; HATANAKA, Miho; MOROKUMA, Keiji; SAITO, Masaichi

2D2-58 Attempts for the Synthesis of Hexasil[6]circulene (Grad. Sch. Sci., Eng., Saitama Univ.) ○FUJITA, Masahiro; FURUKAWA, Shunsuke; SAITO, Masaichi

Saturday, March 28, AM

Chair: NISHIUCHI, Tomohiko (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3D2-01, 3D2-02, 3D2-03, 3D2-04, 3D2-05, 3D2-06)

3D2-01 Polycyclic Pentalenes: Facile Synthesis and Enhanced Antiaromaticity (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○OSHIMA, Hiroya; FUKAZAWA, Aiko; YAMAGUCHI, Shigehiro

3D2-02 Winding vein-shaped molecular asymmetry (1): Functionalization of heterobiaryl with transition metal-catalyzed coupling reactions (Fac. Eng., Kobe Univ.) ○MARUHASHI, Kazuki; OKAYAMA, Yoichi; MORI, Atsunori

3D2-03 Winding-vein-shaped molecular asymmetry (2): Transformation reactions of the olefin moiety of axially chiral heterobiaryls (Grad. Sch. Eng., Kobe Univ.) ○TOYOMORI, Yuka; OKAYAMA, Yoichi; MORI, Atsunori

3D2-04 Preparation and structure of hexaphenylethane-type compounds with a *1H*-benzo[*cd*]indol-2-one skeleton (Fac. Sci., Hokkaido Univ.) ○UCHIMURA, Yasuto; KATOONO, Ryo; FUJIWARA, Kenshu; SUZUKI, Takanori

3D2-05 Synthesis of solenoidal coil type oligopyrins (Grad. Sch. Eng., Kyoto Univ.) ○IWAMOTO, Takahiro; KURAHASHI, Takuya; MATSUBARA, Seijiro

3D2-06 Synthesis and reactivity of a novel azomethine ylide bearing a *9a*-azaphenalenyl structure (Grad. Sch. Eng., The Univ. of Tokyo) ○TOKIMARU, Yuki; ITO, Shingo; NOZAKI, Kyoko

Chair: MAEDA, Chihiro (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3D2-08, 3D2-09, 3D2-10, 3D2-11, 3D2-12, 3D2-13)

3D2-08 Syntheses of Trifluorantheno[3.3.3]propellane Derivatives and Their

Charge-Transfer Complexes (Grad. Sch. Sci., Osaka Univ.) OKODAMA, Takuya; MIYAZAKI, Shogo; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi

3D2-09 Synthesis of 2-aryl indene toward a facile synthesis of s-indacene (Grad. Sch. Sci., Osaka Univ.) OFUJII, Kenshiro; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi

3D2-10 Syntheses and properties of novel overcrowded quinone having various structures with close energies (Grad. Sch. Sci., Osaka Univ.) OSUZUKI, Takeshi; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi

3D2-11 Synthesis, Properties, and Self-assembling Behavior of Dehydroannulenes Fused with Phenanthrenes Having Trialkoxyphenyl Groups (Grad. Sch. Sci. Tech., Gunma Univ.) OTAKAHASHI, Nobutaka; KATO, Shin-ichiro; NAKAMURA, Yosuke

3D2-12 Synthesis, Properties, and Self-association Behavior of Pyrene-fused Dehydro[12]- and [18]annulenes (Grad. Sch. Sci. Tech., Gunma Univ.) OYAMAMOTO, Ryuichiro; KATO, Shin-ichiro; NAKAMURA, Yosuke

3D2-13 Cycloaddition of Benzopentalenequinone Derivative with Dialkylaminophenyl-substituted Alkynes and Properties of Resulting Adducts (Grad. Sch. Sci. Tech., Gunma Univ.) OKIJIMA, Tomokazu; KATO, Shin-ichiro; NAKAMURA, Yosuke

Chair: KATO, Shin-ichiro (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(3D2-15, 3D2-16, 3D2-17, 3D2-18, 3D2-19)

3D2-15 Synthesis and Properties of Tetrazolopyridine-Contained Novel π -Conjugated Compounds (ISIR, Osaka Univ.) OTAMBA, Shunsuke; IE, Yutaka; ASO, Yoshio

3D2-16 Synthesis and Property of Carbazole-Based BODIPYs (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) MAEDA, Chihiro; OTODAKA, Takumi; EMA, Tadashi

3D2-17 Synthesis and applications of π -electronic compound having both triphenylamine site and heterole units structure via titanacycle intermediates. (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech; Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) OSAITO, Daisuke; NISHIYAMA, Hiroki; INAGI, Shinsuke; TOMITA, Ikuoyoshi; OYOYAMA, Yosuke; OHSHITA, Joji

3D2-18 Catalysis of Sumanenyl Complexes (Grad. Sch. Eng., Osaka Univ.; ACT-C, JST) OKATOH, Shun; AMAYA, Toru; TAKAHASHI, Yuki; HIRAO, Toshikazu

3D2-19 Disilanyl Double-Pillared Bisternaphthyl (^{Si}DBPT): Synthesis and Interfused Packing Structure with Herringbone and π -Stack Motifs (Grad. Sch. Sci., Tohoku Univ.; WPI-AIMR, Tohoku Univ.; Grad. Sch. Eng., Osaka Univ.) OHARA, Daisuke; MATSUYAMA, Naoto; NAKANISHI, Waka; HITOSUGI, Shunpei; SAEKI, Akinori; SEKI, Shu; ISOB, Hiroyuki

Saturday, March 28, PM

Photophysical Properties

Chair: KUBO, Yuji (14 : 20~15 : 20)

* 14:10-14:20: interval for laptop PC connection.(3D2-33, 3D2-34, 3D2-36, 3D2-37, 3D2-38)

3D2-33 Synthesis and Properties of Anthranol-Acridine Dyad with Potential Use in Photo-Induced Proton Electron Transfer (Grad. Sch. Sci., Osaka Univ.) OHOSOI, Katsuma; HIRAO, Yasukazu; NISHIUCHI, Tomohiko; KUBO, Takashi

3D2-34* Synthesis and Circularly Polarized Luminescence Properties of 1,1-Bipyrene-2,2-diol Derivatives (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) OHASSAN, Kamrul; YAMASHITA, Ken-ichi; SUGIURA, Ken-ichi; IMAI, Yoshitane; NAKABAYASHI, Kazuki

3D2-36 Aggregate and Photophysical Properties of Pentacene Derivatives by Synthetic Strategy (Grad. Sch. Sci. Tech., Keio Univ.) OSAKUMA, Takao; SAKAI, Hayato; HASOBE, Taku

3D2-37 Synthesis and Photophysical Properties of Picene, Benzo[c]chrysene and [5]Helicene Imide Derivatives (Fac. Sci. Tech., Keio Univ.; IMRAM, Tohoku Univ.; Sch. Advanced Sci. Eng., Waseda Univ.) OKUBOTA, Takako; SAKAI, Hayato; ARAKI, Yasuyuki; WADA, Takehiko; SAKANOU, Tomo; TAKENOB, Taishi; HASOBE, Taku

3D2-38 Synthesis and photophysical properties of "Push-Pull" tetrathia[9]helicenes for circular polarized luminescence (Grad. Sch. Sci. Tech., Keio Univ.; IMRAM, Tohoku Univ.; Sch. Advanced Sci. Eng., Waseda Univ.; Grad. Sch. Mat. Sci., NAIST) OYAMAMOTO, Yuki; SAKAI, Hayato; ARAKI, Yasuyuki; WADA, Takehiko; SAKANOU, Tomo; TAKENOB, Taishi; JATISH, Kumar; KAWAI, Tsuyoshi; HASOBE, Taku

Chair: HIRAO, Yasukazu (15 : 30~16 : 30)

* 15:20-15:30: interval for laptop PC connection.(3D2-40, 3D2-42, 3D2-43, 3D2-44, 3D2-45)

3D2-40* Preparation and Photodynamics of Supramolecular Assemblies of Triazine-Substituted Porphyrin Derivatives through Hydrogen Bonds (Fac. Sci. Tech., Keio Univ.) OSAKAI, Hayato; ARAKI, Yasuyuki; WADA, Takehiko; HASOBE, Taku

3D2-42 Synthesis, spectroscopic and electrochemical properties of N-doped perylene derivatives for transition metal complexes (Fac. Sci. Tech., Keio

Univ.) OTOKUO, Kokichi; SAKAI, Hayato; ARAKI, Yasuyuki; SAKANOU, Tomo; WADA, Takehiko; TAKENOB, Taishi; HASOBE, Taku

3D2-43 Supramolecular Formation and Photophysical Property of Donor-Acceptor Dyads Containing a Perylene Unit (Grad. Sch. Sci. Tech., Keio Univ.) OHORINOCHI, Haruki; SAKAI, Hayato; HASOBE, Taku

3D2-44 Synthesis of an Exceptionally Stable Subporphyrin *meso*-Oxy Radical (Grad. Sch. Sci., Kyoto Univ.) OSHIMIZU, Daiki; OSUKA, Atsuhiro

3D2-45* Synthesis and Properties of Carbon-Bridged Oligo-p-Phenylenevinylene-Benzoquinone Conjugate (Grad. Sch. Sci., The Univ. of Tokyo) OKANDA, Yuzuru; TSUJI, Hayato; EIICHI, Nakamura

Chair: HASOBE, Taku (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(3D2-47, 3D2-48, 3D2-49, 3D2-50, 3D2-51, 3D2-52)

3D2-47 Synthesis and Optical Properties of Donor-Acceptor Molecules with Aza[7]helicenes as Electron Donor (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OTAKASE, Kou; NAKANO, Koji

3D2-48 Withdrawn

3D2-49 Synthesis of novel aza-BODIPY dimers based on lactam skeletons and their properties (Tohoku Univ. Faculty of Science) OTAMADA, Masamichi; SHIMIZU, Soji; KOBAYASHI, Nagao

3D2-50 Synthesis and Photophysical Properties of Doubly N-Confused Hexaphyrin Bimetal Complexes (Grad. Sch. Eng., Kyushu Univ.) OOGASAHARA, Koki; GOKULNATH, Sabapathi; ISHIDA, Masatoshi; FURUTA, Hiroyuki

3D2-51 Synthesis of Subporphyrin Pincer Complexes (Grad. Sch. Sci., Kyoto Univ.) OKITANO, Masaaki; OSUKA, Atsuhiro

3D2-52 Metalation and Characterization of [26]Ruberin (Grad. Sch. Sci., Kyoto Univ.) OSOYA, Takanori; OSUKA, Atsuhiro

Sunday, March 29, AM

Photophysical Properties

Chair: MATANO, Yoshihiro (9 : 00~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4D2-01, 4D2-02, 4D2-04, 4D2-05, 4D2-06)

4D2-01 Effects of Planarization in 9-Phenylanthracene (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya University) OIWAHARA, Hideaki; KUSHIDA, Tomokatsu; YAMAGUCHI, Shigehiro

4D2-02* Synthesis and Properties of Donor-Acceptor-Donor Type π -Conjugated Cation Containing of a Tropylium Ion as an Electron-Accepting Moiety. (Grad. Sch. Sci., Nagoya Univ.) OASAI, Kengo; FUKAZAWA, Aiko; YAMAGUCHI, Shigehiro

4D2-04 Synthesis and physicochemical properties of thienophosphole-dione-containing novel D-A-D π -conjugated molecules (Grad. Sch. Eng., Osaka Univ.) OHATANAKA, Kota; TAKEDA, Youhei; MINAKATA, Satoshi

4D2-05 Synthesis and properties of D- π -A type acridine-based fluorescent molecule (Grad. Sch. Sci. Tech., Keio Univ.) OTADA, Reiki; SUZUKI, Ryota; MIURA, Youhei; YOSHIOKA, Naoki

4D2-06 Amphiphilic Benzothiadiazole-triphenylamine-based Aggregates That Emit Red Light in Water (Kurume National College of Technology Department of Biochemistry and Applied Chemistry; Grad. Sch. Sci. Tech., Gunma Univ.) OKITAHARA, Ikumi; TANAKA, Asami; HASEBE, Naoya; YOSHIHARA, Toshitada; TOBITA, Seiji; ISHI-I, Tsutomu

Chair: FUKAZAWA, Aiko (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4D2-08, 4D2-10, 4D2-11, 4D2-12, 4D2-13)

4D2-08* Synthesis and Properties of Highly Twisted 5-Arylamino Thiazoles (Fac. Eng., Gifu Univ.) OYAMAGUCHI, Kirara; MURAI, Toshiaki

4D2-10 Effects of β -aryl groups on the optical properties of 5,15-diazaporphyrins (Grad. Sch. Sci. and Technol., Niigata Univ.; Fac. Sci., Niigata Univ.; Grad. Sch. Sci., Kyushu Univ.) OOMOMO, Satoshi; MATANO, Yoshihiro; NAKANO, Haruyuki

4D2-11 Luminescence Properties of Phenylenediamine Derivatives Based on Substituent Effect (Fac. Integrated Arts and Sci., The Univ. of Tokushima; Grad. Sch. Eng., Osaka Univ.) OOHMURA, Satoshi; MORIUCHI, Toshiyuki; HIRANO, Misato; MIYOSHI, Norikazu; HIRAO, Toshikazu

4D2-12 Synthesis of phenylenediamines bearing the pyridine moieties (Grad. Sch. Eng., Osaka Univ.) MORIUCHI, Toshiyuki; OTSUTSUI, Yuko; EBISU, Keisuke; HIRAO, Toshikazu

4D2-13 Synthesis of phenylenediamine derivatives bearing nucleobase moieties (Grad. Sch. Eng., Osaka Univ.) MORIUCHI, Toshiyuki; OKOBAYASHI, Kazuki; SAKAMOTO, Yuki; HIRAO, Toshikazu

Chair: MORIUCHI, Toshiyuki (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4D2-15, 4D2-17, 4D2-18, 4D2-19, 4D2-20)

4D2-15* Development of novel rhodamine-based organic near-IR dye (Grad. Sch. Pharm., The Univ. of Tokyo; RIKEN; Grad. Sch. Dent. and Phar. Sci., Okayama Univ.) OSHIRASAKI, Yoshinao; MURANAKA, Aitsuya; KAMINO, Shinichiro; HASHIZUME, Daisuke; SAWADA, Daisuke; UCHIYAMA, Masanobu

- 4D2-17** Near-IR Solvatochromism of Benzophthalocyanine (Grad. Sch. Pharm., The Univ. of Tokyo; RIKEN CSRS) ○TORIUMI, Naoyuki; MURANAKA, Atsuya; HIRANO, Keiichi; YOSHIDA, Kengo; UCHIYAMA, Masanobu
- 4D2-18** Synthesis and Aggregation-induced Emission Behavior of Dimethylenecyclobutane Derivatives by Cyclodimerization of Allenes (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○EGUCHI, Hiroshi; NISHIYAMA, Hiroki; INAGI, Shinsuke; TOMITA, Ikuyoshi
- 4D2-19** Synthesis and Optical Properties of Gallium Diiminate (Grad. Sch. Eng., Kyoto Univ.) ○HIROSE, Amane; TANAKA, Kazuo; CHUJO, Yoshiki
- 4D2-20** Reactions of di-*tert*-butylcyclopropanone with various methylenation reagents (Grad. Sch. Sci., Shizuoka Univ.) ○HANITANI, Kaito; SAKAMOTO, Kenkichi

Sunday, March 29, PM

Chair: TANAKA, Kazuo (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(4D2-28, 4D2-30, 4D2-31, 4D2-32, 4D2-33)
- 4D2-28^{##}** Synthesis and Properties of a Fluoreno[2,3-*b*]fluorene Derivative Having an Anomalous Optical Property (Grad. Sch. Eng. Sci., Osaka Univ.) ○MIYOSHI, Hirokazu; MIKI, Masahito; HIRANO, Shintaro; SHIMIZU, Akihiro; KISHI, Ryohei; NAKANO, Masayoshi; TOBE, Yoshito
- 4D2-30[#]** Synthesis and photophysical characterization of the direct ring functionalized unsymmetrical NIR cyanine dyes (Grad. Sch. Life Sci. Sys. Eng., KIT) ○SAIKIRAN, Maryala; SATO, Daisuke; PANDEY, Shyam S.; KATO, Tamaki
- 4D2-31[#]** Syntheses and characterizations of the isomers of pyrene-based salicylaldehyde-type ligand and their metal complexes (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) ○LUONG, Xuan Dien; YAMASHITA, Ken-ichi; SUGIURA, Ken-ichi
- 4D2-32** Synthesis and Properties of Fluorenylideneacridane (Grad. Sch. Sci., The Univ. of Tokyo) ○SUZUKI, Tsuyoshi; OKADA, Hiroshi; MATSUO, Yutaka
- 4D2-33** Synthesis of Triphenylamine Derivatives Containing Carborane and Their Electronic Properties (Grad. Sch. Eng., Kyoto Univ.) ○UEBE, Masashi; KAMEOKA, Yuichiro; ITO, Akihiro; SATO, Tohru; TANAKA, Kazuyoshi

Room D3

Bldg.10 1013

Physical Organic Chemistry Structures and Properties

Thursday, March 26, AM

Thiophene and redox system

Chair: ISHIZUKA, Tomoya (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1D3-01, 1D3-02, 1D3-03, 1D3-04, 1D3-05, 1D3-06)
- 1D3-01** Mechanochromism of Donor- π -Acceptor Compounds Consisted of Arylcarboxylate Ester as an Acceptor (Grad. Sch. Eng., Chiba Univ.) MATSUMOTO, Shoji; ○MOTOKI, Jun; KATO, Naoki; AKAZOME, Motohiro
- 1D3-02** Structures, morphologies, and electric and photophysical properties of macrocyclic cyclo[8](thienylene-ethynylene)-fullerene complexes (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) ○SHIMIZU, Hideyuki; IYODA, Masahiko
- 1D3-03[#]** Structure and electronic state of dicationic bis(diarylamino)-substituted carbon-bridged phenylenevinylenes (Grad. Sch. Sci., The Univ. of Tokyo) ○LIN, Nai-ti; TSUJI, Hayato; NAKABAYASHI, Koji; OHKOSHI, Shin-ichi; NAKAMURA, Eiichi
- 1D3-04** Picket fence polythiophene and its diblock copolymers (NIMS Polymer Materials Unit) ○SUGIYASU, Kazunori; PAN, Chengjun; TAKEUCHI, Masayuki
- 1D3-05** Synthesis and chiroptical properties of a chiral allene having TTFs and its polymer (Grad. Sch. Sci., Kitasato Univ.) ○ENDO, Junta; HASEGAWA, Masashi; IWATA, Seiya; MAZAKI, Yasuhiro
- 1D3-06** Pyridazine-3,6-diol Annulated Tetrathiafulvalene: Self-assembly and Fiber Formation Triggered by Diamine Addition (Grad. Sch. Sci., Kitasato Univ.) ○HASEGAWA, Masashi; INOUE, Ryota; MAZAKI, Yasuhiro

Chair: MATSUMOTO, Shoji (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1D3-08, 1D3-09, 1D3-10, 1D3-11, 1D3-12, 1D3-13)
- 1D3-08** Redox properties of a π -expanded quinone-type porphyrin (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○ITAGAKI, Ryo; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko

- 1D3-09** Development of an alternately connected donor-acceptor type dendrimer (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○HIGA, Takuya; ARUBUREHITO, Ken; YAMAMOTO, Kimihisa
- 1D3-10** Non-Symmetric π -Conjugating Polymers with an Electron-Density Gradient (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○AMEMIYA, Fumihito; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 1D3-11** Synthesis and Properties of Benzothiadiazole, Quinoxaline, and Phenazine Derivatives Fused with Thienopyrrole Moieties (Grad. Sch. Sci. Tech., Gunma Univ.) ○TAMURA, Misaki; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 1D3-12** Synthesis and Properties of Benzo- and Naphthopentalene Derivatives Bearing Various Substituents (Grad. Sch. Sci. Tech., Gunma Univ.) ○KUWAKO, Satoshi; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 1D3-13** Synthesis of novel π -extended dihydrophenazine derivatives (Grad. Sch. Eng., Nagoya Univ.) ○NAGASAKI, Juri; HIROTO, Satoru; SHINOKUBO, Hiroshi

Chair: HIROTO, Satoru (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1D3-15, 1D3-17, 1D3-18, 1D3-19, 1D3-20)
- 1D3-15*** Acid-responsive biacridine derivative (CIMoS, IMS) ○YAMAMOTO, Koji; PANDIT, Palash; NAKAMURA, Toshikazu; KURASHIGE, Yuki; YANAI, Takeshi; NAKAMURA, Go; MASAOKA, Shigeyuki; HIGASHIBAYASHI, Shuhei
- 1D3-17** Acid-responsive bicarbazole derivative (CIMoS, IMS; Niigata Univ. Center for Instrumental Analysis, Institute for Research Pro) PANDIT, Palash; YAMAMOTO, Koji; NAKAMURA, Toshikazu; NISHIMURA, Katsuyuki; KURASHIGE, Yuki; YANAI, Takeshi; NAKAMURA, Go; MASAOKA, Shigeyuki; FURUKAWA, Ko; ○HIGASHIBAYASHI, Shuhei
- 1D3-18** Syntheses and Optical Properties of Electron Acceptors with Electron-Donating π -Conjugated Side Chains (Grad. Sch. Sci., Shizuoka Univ.) ○INOUE, Shota; KOBAYASHI, Kenji
- 1D3-19** Synthesis and Properties of Double Alkylene-Strapped Diphenyltetracenes (Grad. Sch. Sci., Shizuoka Univ.) ○OHSAWA, Hirokazu; TAKAGI, Yuta; KOBAYASHI, Kenji
- 1D3-20** Synthesis of 9-Substituted-3,6-Diborylanthracenes Directed to Macrocyclic π -Conjugated Anthracene Derivatives (Grad. Sch. Sci. Technol., Shizuoka Univ.) ○TAKAKI, Yuta; KOBAYASHI, Kenji

Thursday, March 26, PM

Chair: AMAYA, Toru (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(1D3-32, 1D3-34, 1D3-36)
- 1D3-32*** Synthesis and Electronic properties of Three-Dimensional π -Systems Derived from Cruciform Heteroacene Dimers (Grad. Sch. Eng., Osaka Univ.) ○SAKAMAKI, Daisuke; SEKI, Shu
- 1D3-34*** Syntheses, Structures, and Properties of Cationic Species Based on Benzothiazinophenothiazine (Grad. Sch. Sci., Osaka City Univ.) ○YOSHIDA, Kohei; SUZUKI, Shuichi; KOZAKI, Masatoshi; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; OKADA, Keiji
- 1D3-36^{##}** Synthesis and Electrochemical Properties of π -Extended Tetrathiafluvalene Analogues Embedded with a Porphyrin Skeleton (Grad. Sch. Eng., Kyushu Univ.) ○ISHIDA, Masatoshi; CHANG-HEE, Lee; SESSLER, Jonathan; FURUTA, Hiroyuki

Chair: MURATA, Michihisa (15 : 20~16 : 10)

- * 15:10-15:20: interval for laptop PC connection.(1D3-39, 1D3-41, 1D3-42, 1D3-43)
- 1D3-39*** Synthesis and properties of self-doped conducting polyanilines bearing phosphonic acid and phosphonic acid monoester (DAIHACHI CHEMICAL INDUSTRY CO.,LTD.; Grad. Sch. Eng., Osaka Univ.) ○ABE, Yasushi; AMAYA, Toru; INADA, Yuh; YAMAMOTO, Hiroki; KOZAWA, Takahiro; HIRAO, Toshikazu
- 1D3-41** Complexation of poly(anilinephosphonic acid) (Sch. Eng., Osaka Univ.) AMAYA, Toru; ○SUGIHARA, Ryosuke; HIRAO, Toshikazu
- 1D3-42** Synthesis of Tetrathia[8]circulenes by Ir-Catalyzed Borylation and Rh-Catalyzed Annulation (Grad. Sch. Eng., Nagoya Univ.) ○KATO, Shohei; SERIZAWA, Yuma; MIYAKE, Yoshihiro; SHINOKUBO, Hiroshi
- 1D3-43** Regioselective Functionalization of Cyclic Tetrathiophene (Grad. Sch. Eng., Nagoya Univ.) ○SERIZAWA, Yuma; KATO, Shohei; MIYAKE, Yoshihiro; SHINOKUBO, Hiroshi

Chair: SHIMIZU, Soji (16 : 20~17 : 00)

- * 16:10-16:20: interval for laptop PC connection.(1D3-45, 1D3-46, 1D3-47, 1D3-48)
- 1D3-45** Formation of π -Electronic Anions Based on Dipyrrolylphenols (Coll. Pharm. Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; ○FUKUI, Ayaka
- 1D3-46** Synthesis of Propanediones with Two Kinds of Heteroaryl Moieties (Coll. Pharm. Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; ○FUJIWARA, Masaya
- 1D3-47** Preparation and characterization of a 2,7-diaminopyrene derivative (Grad. Sch. Eng., Kyoto Univ.) ○KURATA, Ryohei; ITO, Akihiro; TANAKA, Kazuyoshi
- 1D3-48** Preparation and Electrochromism Behaviors of Dyrex Systems

Containing Multiple Fluoroarene Units (Fac. Sci., Hokkaido Univ.)
 ○TAMAOKI, Hitomi; KATOONO, Ryo; FUJIWARA, Kenshu; SUZUKI, Takanori

Chair: KATOONO, Ryo (17 : 10~18 : 00)

- * 17:00-17:10: interval for laptop PC connection.(1D3-50, 1D3-51, 1D3-52, 1D3-53, 1D3-54)
- 1D3-50** Design and Synthesis of New pi-Extended Thienoacenes and Their Application to Organic Transistors (Fac. Eng., Kyushu Univ.; IFRC, Kyushu Univ.; PRESTO, JST) ○OHYAMA, Tatsuya; YANG, Yuseok; ADACHI, Chihaya; YASUDA, Takuma
- 1D3-51** Control of Molecular Alignment of Silicon Phthalocyanine Oligomers by Redox of the Peripheral TTF units (Grad. Sch. Sci., Tohoku Univ.) ○SHIINA, Yuta; SHIMIZU, Soji; KOBAYASHI, Nagao
- 1D3-52** Synthesis and Properties of Tetrabenzopyrrole Derivatives (ICR, Kyoto Univ.) ○CHAO, Lumen; MURATA, Michihisa; SUGANO, Yasunori; WAKAMIYA, Atsushi; MURATA, Yasujiro
- 1D3-53** Synthesis and Properties of Long Insulated Oligothiophenes Having Spiro-Substituted Fluorene towards Application to Molecular Wires (ISIR, Osaka Univ.) ○OKAMOTO, Yuji; IE, Yutaka; ASO, Yoshio
- 1D3-54** Synthesis of Proton-coupled Redox-active Ligands (Grad. Sch. Sci., Osaka Univ.) ○TACHIBANA, Naoki; HIRAO, Yasukazu; NISHIUCHI, Tomohiko; KUBO, Takashi

Friday, March 27, AM

Organic conductor, semiconductor

Chair: NAKANO, Koji (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2D3-01, 2D3-03, 2D3-05, 2D3-06)
- 2D3-01*** Synthesis of novel dibenzo[a,e]pentalene (DBP)-based π -conjugated molecules and their OFET properties. (RIKEN CEMS) ○NAKANO, Masahiro; OSAKA, Itaru; TAKIMIYA, Kazuo
- 2D3-03*** Structural Dynamics and Semiconducting Properties of Naphthalene-diimide-Based π -Conjugated Systems (ICYS, NIMS) ○TAKAI, Atsuro; TAKEUCHI, Masayuki
- 2D3-05** Synthesis of Sulfur-Containing Phenacene-type Polycyclic Aromatic Compounds and Their Application to Organic Field-Effect Transistors (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; JST ACT-C) ○HYODO, Keita; MORI, Hiroki; NISHIHARA, Yasushi
- 2D3-06** Synthesis, Properties, and n-Type Semiconducting Properties of Pyradinodithiazole Containing Copolymers (ISIR, Osaka Univ.) ○SASADA, Shohei; IE, Yutaka; ASO, Yoshio

Chair: ASO, Yoshio (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2D3-08)
- 2D3-08** CSJ Award for Creative Works Development and application of high-performance heteroarene-based organic semiconductors (RIKEN CEMS) ○TAKIMIYA, Kazuo

Chair: OSAKA, Itaru (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2D3-15, 2D3-17, 2D3-18, 2D3-19, 2D3-20)
- 2D3-15*** Theoretical Calculation and Synthetic Study on Silylene-bridged Cyclooligothienylene (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○OHTA, Eisuke; OGAKI, Takuya; AOKI, Toru; ODA, Yukiko; MATSUI, Yasunori; IKEDA, Hiroshi
- 2D3-17** Synthesis of Oxacenes Fused with a Benzo[1,2-b:4,5-b']difuran Skeleton and Their Application to Organic Field-effect Transistors (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○YAMAGATA, Yuta; NAKANO, Koji
- 2D3-18** Synthesis and Semiconducting Properties of Heteroacenes Containing a Benzo[2,1-b:3,4-b']dichalcogenophene Skeleton (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○TRUONG, Minh Anh; NAKANO, Koji
- 2D3-19** Synthesis and Properties of D-A Materials Using Thiazole-fused Benzothiadiazole as Acceptor Unit (ICR, Kyoto Univ.; PRESTO, JST) ○SATOU, Motoi; WAKAMIYA, Atsushi; MURATA, Yasujiro
- 2D3-20** Characterization of diketopyrrolopyrrole derivative dimerizing by hydrogen bonding (Univ. of Tsukuba) ○KAWASAKI, Ryuya; TAKASE, Naoto; KUWABARA, Junpei; KANBARA, Takaki

Friday, March 27, PM

Chair: ONO, Katsuhiko (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2D3-28, 2D3-30, 2D3-31, 2D3-33)
- 2D3-28*** Synthesis and Properties of Pyrrolopyrrole aza-BODIPYs and their application towards organic photovoltaics (Grad. Sch. Eng., Kyushu Univ.) ○SHIMIZU, Soji; IINO, Taku; SAEKI, Akinori; SEKI, Shu; FURUTA, Hiroyuki; KOBYASHI, Nagao
- 2D3-30** The synthesis and properties of pyrrolopyrrole-aza-BODIPY dimer (Fac. Eng., Kyushu Univ.) ○KAGE, Yuto; SHIMIZU, Soji; MORI,

Shigeki; FURUTA, Hiroyuki

- 2D3-31*** Development of Semiconducting Polymers Based on Phenanthro-dithiophene-Benzothiadiazole and Their Application to Organic Electronic Devices (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; JST ACT-C) ○MORI, Hiroki; NONOBE, Hikaru; NISHIHARA, Yasushi
- 2D3-33** Synthesis and Photovoltaic Properties of 4,7-Dialkylated Phenanthro-dithiophene-Based Low Band-Gap Semiconducting Polymers (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; JST ACT-C) ○TAKAHASHI, Ryosuke; HYODO, Keita; NONOBE, Hikaru; MORI, Hiroki; NISHIHARA, Yasushi

Chair: SHIMIZU, Soji (14 : 40~15 : 20)

- * 14:30-14:40: interval for laptop PC connection.(2D3-35, 2D3-36, 2D3-37, 2D3-38, 2D3-39, 2D3-40)
- 2D3-35** Fabrication and electrochemical properties of fullerene-diamine adduct thin-film as electron-transporting material (Sch. Eng., The Univ. of Shiga Pref.) ○SAITO, Jo; AKIYAMA, Tsuyoshi; ONO, Yuji; BANYA, Shoto; IZUMOTO, Daisuke; OKU, Take
- 2D3-36** Facile preparation of C60-ethylenediamine microparticle film and its photoelectrochemical applications (Sch. Eng., The Univ. of Shiga Pref.) ○BANYA, Shoto; AKIYAMA, Tsuyoshi; SUZUKI, Atsushi; OKU, Takeo
- 2D3-37** Development of D- π -A Dyes Containing Isobenzoheterol Unit as a π -Spacer (Sch. Sci. Tech., Kwansai Gakuin Univ.) HAMURA, Toshiyuki; ○TOZAWA, Hitoshi; KATAOKA, Hiroki; MURATA, Yasujiro; WAKAMIYA, Atsushi
- 2D3-38** Ion-Sensing and Light-Harvesting Properties of Curcumin Boron Complexes (Grad Sch. Eng., Nagoya Inst. of Tech.) ○TAKAO, Aya; ONO, Katsuhiko

Chair: SHIMIZU, Soji (15 : 20~15 : 40)

- 2D3-39** Reduction Properties of Doubly Boron-Doped Nanographenes (Grad. Sch. Sci., Nagoya Univ.; WPI-ITBM, Nagoya Univ.; CREST, JST) ○OSUMI, Shinichiro; DOU, Chuandong; MATSUO, Kyohei; SAITO, Shohei; YAMAGUCHI, Shigehiro
- 2D3-40** Boron-Doped Graphene Nanoribbons: Bottom-up Synthesis, Electronic Structure, Lewis Acidity (Grad. Sch. Sci., Nagoya Univ.; PRESTO, JST; WPI-ITBM, Nagoya Univ.; Basel Univ.; Aalto Univ.) ○SAITO, Shohei; KAWAI, Shigeki; OSUMI, Shinichiro; FOSTER, Adam; ERNST, Meyer; YAMAGUCHI, Shigehiro

Chair: AKIYAMA, Tsuyoshi (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2D3-42, 2D3-44, 2D3-46)
- 2D3-42*** Development of π -Conjugated Columnar Liquid Crystals Containing Polar Groups (Grad. Sch. Eng., The Univ. of Tokyo) ○YOSHIO, Masafumi; ZHEN, Zheng; KATO, Takashi
- 2D3-44*** Synthesis of Cyclo-meta-phenylene Derivatives for the Organic Materials (Grad. Sch. Sci., Tohoku Univ.) ○XUE, Jing; IKEMOTO, Koki; TAKAHASHI, Norihisa; IZUMI, Tomoo; TAKA, Hideo; KITA, Hiroshi; SATO, Sota; ISOBE, Hiroyuki
- 2D3-46*** Tailored Rechargeable Battery Using Open-Shell Organic Molecule: Improvements of Capacities by Chemical Modifications of Trioxotriangulenes (Grad. Sch. Eng., Osaka Univ.; KANEKA CORP.; CREST, JST; Fac. Eng., Aichi Inst. of Tech.) ○NOBUKUNI, Hirofumi; ASAKURA, Noriaki; KEISHIMA, Miwa; TSUJI, Ryotaro; MORITA, Yasushi

Chair: HATAKEYAMA, Takuji (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(2D3-49, 2D3-50, 2D3-53)
- 2D3-49** Hydrogen peroxide generation using polyaniline/transition metals hybrid electrode (Grad. Sch. Eng., Osaka Univ.; Nissan Chemical Industries, Ltd. Materials Research Laboratories) ○ISAJI, Tadayuki; ABE, Masashi; AMAYA, Toru; HIRAO, Toshikazu
- 2D3-50** CSJ Award for Young Chemists in Technical Development Highly-efficient Long-lived Organic Light-emitting Diode Utilizing Exciplex-Triplet Energy Transfer and Its Application to White Lighting Panel (SEMICONDUCTOR ENERGY LABORATORY OEL DIVISION) ○ISHISONE, Takahiro; SEO, Satoshi; OHSAWA, Nobuharu
- 2D3-53*** Development of delayed fluorescence emitter based on triptycene backbone (MIT Department of Chemistry) ○KAWASUMI, Katsuki; WU, Tony; ZHU, Tianyu; VAN VOORHIS, Troy; BALDO, Marc; SWAGER, Timothy

Saturday, March 28, AM

Organic conductor, semiconductor

Chair: MORISAKI, Yasuhiro (9 : 00 ~ 9 : 30)

- * 8:50-9:00: interval for laptop PC connection.(3D3-01, 3D3-02, 3D3-03, 3D3-04, 3D3-05, 3D3-06)
- 3D3-01** Synthesis, Structures and Properties of Cross-Conjugated TTF Donors with a Hexatriene Chain (Grad. Sch. Sci., Eng., Ehime Univ.) ○DANJO, Takahiro; UEDA, Masafumi; SHIRAHATA, Takashi; MISAKI, Yohji

Boron

3D3-02 Synthesis of boron-dinaphthopyrromethene dyes with near-infrared light absorption property (Urban Environmental Sci., Tokyo Metropolitan Univ.) ○YAMAZAWA, Sho; ASABA, Takuro; SUDA, Yuki; NISHIYABU, Ryuhei; KUBO, Yuji

3D3-03 Synthesis and Optical Properties of Novel BODIPYs Bearing Thiophene Units (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SAIKAWA, Makoto; SAINO, Sousuke; YAMAMURA, Masaki; NABESHIMA, Tatsuya

Chair: MORISAKI, Yasuhiro (9 : 30 ~ 9 : 50)

3D3-04 Synthesis of Phenoxaborine Analogs as Materials for Organic Electroluminescence (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○HIRAI, Hiroki; NAKATSUKA, Soichiro; HATAKEYAMA, Takuji

3D3-05 Synthesis and Physical Properties of Heteroatom-Fused Dinaphthopentacene Analogs (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○NAKATSUKA, Soichiro; HIRAI, Hiroki; HATAKEYAMA, Takuji

Chair: MORISAKI, Yasuhiro (9 : 50 ~ 10 : 00)

3D3-06 Synthesis and Physical Properties of BN-Containing Polycyclic Aromatic Compounds by Electrophilic C-H Borylation (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○NAKAJIMA, Kiichi; TAKEDA, Naoki; HATAKEYAMA, Takuji

Chair: YAMAMURA, Masaki (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3D3-08, 3D3-09, 3D3-10, 3D3-11, 3D3-12)

3D3-08 Synthesis and Physical Properties of Boron-Fused Benzotetracene Analogs (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○NAGAMI, Naoto; NAKAJIMA, Kiichi; NAKATSUKA, Soichiro; NUMANO, Misa; TATSUMI, So; HATAKEYAMA, Takuji

3D3-09 Synthesis and Physical Properties of Boron-Fused Double Helicenes (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○KATAYAMA, Takazumi; HIRAI, Hiroki; NAKATSUKA, Soichiro; MIYAMOTO, Fumiya; HATAKEYAMA, Takuji

3D3-10 Synthesis and Properties of Difluoroboron Diketone Dyes with Enhanced Donor- π -Acceptor Interactions (Grad Sch. Eng., Nagoya Inst. of Tech.) ○BANNO, Keisuke; OSHIMA, Asami; ONO, Katsuhiko

3D3-11 Formation of Non-Complexing Planar Anions Based on Dipyrrolyl-diketone Boron Complexes (Coll. Pharm. Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; ○SASANO, Yoshifumi

3D3-12[#] Synthesis and optical properties of conjugated compounds based on ionic boron cluster (Grad. Sch. Eng., Kyoto Univ.) ○NISHINO, Kenta; MORISAKI, Yasuhiro; CHUJO, Yoshiki

Nanostructures

Chair: HATAKEYAMA, Takuji (11 : 20 ~ 12 : 10)

* 11:10-11:20: interval for laptop PC connection.(3D3-15, 3D3-17, 3D3-19)

3D3-15[#] Photoresponsive 2-D Orderings of Diarylethenes at the Liquid/HOPG Interface: Correlation between Molecular Structure and Cooperative Parameter (Grad. Sch. Eng., Kyoto Univ.) ○YOKOYAMA, Soichi; HIROSE, Takashi; MATSUDA, Kenji

3D3-17[#] Diarylene Self-Assembled Monolayers: Cocrystallization and "Mixing-Induced Cooperativity" Highlighted by Scanning Tunneling Microscopy at the Liquid/Solid Interface (Grad. Sch. Eng., Kyoto Univ.) ○FRATH, Denis; SAKANO, Takeshi; IMAIZUMI, Yohei; YOKOYAMA, Soichi; HIROSE, Takashi; MATSUDA, Kenji

3D3-19 Regioselective synthesis of novel multifunctionalized fullerenes by a substitution reaction of bromofullerene C₆₀Br₈ (Fac. Sci., Toho Univ.) ○WATANABE, Keita; UCHIYAMA, Kouya; YOZA, Kenji; MORIYAMA, Hiroshi

Saturday, March 28, PM

Chair: YOSHIZAWA, Michito (14 : 30 ~ 15 : 30)

* 14:20-14:30: interval for laptop PC connection.(3D3-34, 3D3-35, 3D3-36, 3D3-37, 3D3-38, 3D3-39)

3D3-34 Construction of anion-responsive self-assemblies based on acenimides (Urban Environmental Sci., Tokyo Metropolitan Univ.) ○SAITO, Tomoki; IIZUKA, Shunsuke; NISHIYABU, Ryuhei; KUBO, Yuji

3D3-35 Characterization of AIE-active boronate aggregates derived from optically active tartaric acids (Urban Environmental Sci., Tokyo Metropolitan Univ.) ○NAKAMOTO, Shogo; OZAWA, Ayumi; FUJIWARA, Seika; NISHIYABU, Ryuhei; KUBO, Yuji

3D3-36 Synthesis and Property of Chiral Eu Composite Polymer Nanotubes (Fac. Sci. Eng., Kinki Univ.) ○SHINTANI, Nozomu; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

3D3-37 Synthesis and Property of Organic Molecule Protected-CdSe Nanoparticle Hybrid Polymer Nanotubes (Kinki Univ.) ○TOGAWA, Yusuke; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

3D3-38 Self-assembly of amphiphilic perylene bisimide induced cyanuric acid in aqueous media (Grad. Sch. Eng., Chiba Univ.) ○FUKUDA, Ippei;

YAGAI, Shiki; KARATSU, Takashi; KITAMURA, Akihide

3D3-39 Transformation of Vesicular-to-Fibrillar Nanostructures by Amphiphilic Perylene Bisimide Dyads (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki; ○OGASAWARA, Mutsumi; KARATSU, Takashi; KITAMURA, Akihide

Chair: YAGAI, Shiki (15 : 40 ~ 16 : 40)

* 15:30-15:40: interval for laptop PC connection.(3D3-41, 3D3-42, 3D3-43, 3D3-44, 3D3-45, 3D3-46)

3D3-41 Properties of Graphene Quantum Dots functionalized by Huisegen Reaction (Grad. Sch. Sci., Hiroshima Univ.) ○UEMURA, Yuichiro; SUZUKI, Kaho; SEKIYA, Ryo; HAINO, Takeharu

3D3-42 Synthesis of Sn-Porphyrin Polythiophene Nanotubes and Their Metal Nanoparticle Composites (Fac. Sci. Eng., Kinki Univ.) ○YOSHIDA, Yuya; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

3D3-43 Molecular Tubes with Three Anthracene Rings: Short-step Synthesis and Functionalization (Chem. Res. Lab., Tokyo Tech) ○OTSUKI, Masafumi; HAGIWARA, Keita; YOSHIZAWA, Michito; AKITA, Munetaka

3D3-44 Molecular Tubes with Three Anthracene Rings: Host Capabilities and Fluorescent Properties in Water (Chem. Res. Lab., Tokyo Tech) ○HAGIWARA, Keita; OTSUKI, Masafumi; YOSHIZAWA, Michito; AKITA, Munetaka

3D3-45 Molecular Self-assemblies for Photon-Upconversion in Water (Grad. Sch. Eng., Kyushu Univ.; Kyushu Univ. CMS; PRESTO, JST) ○KOUNO, Hironori; YANAI, Nobuhiro; KIMIZUKA, Nobuo

3D3-46 Systematic Study for Establishing Rational Strategy to Achieve Efficient Photon Upconversion in Air (Grad. Sch. Eng., Kyushu Univ.; Kyushu Univ. CMS; PRESTO, JST) ○OGAWA, Taku; YANAI, Nobuhiro; KIMIZUKA, Nobuo

Chair: YANAI, Nobuhiro (16 : 50 ~ 17 : 50)

* 16:40-16:50: interval for laptop PC connection.(3D3-48, 3D3-49, 3D3-50, 3D3-51, 3D3-53)

3D3-48 Biomolecular Recognition and Transport by Polythiophene Nanotubes Having Magnetism and Redox Activity. (Kinki Univ.) ○IMAMURA, Koki; KAMEYAMA, Motoki; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

3D3-49 Substituent Effect of Chromene Derivatives on Solvation Behavior of Water Containing Ionic Liquids (Fac. Eng., Oita Univ.) ○SANO, Ryota; NOBUOKA, Kaoru; KITAOKA, Satoshi; OHGA, Yasushi; ISHIKAWA, Yuichi

3D3-50 Synthesis and Liquid Crystalline Property of Diindolocarbazole Derivatives (Grad. Sch. Sci., Nagoya Univ.) ○KATO, Masahiro; KAWANO, Shin-ichiro; TANAKA, Kentaro

3D3-51[#] Columnar liquid crystalline macrocycles toward reversible guest inclusion (Grad. Sch. Sci., Nagoya Univ.) ○KAWANO, Shinichiro; TANAKA, Kentaro

3D3-53 Two-Dimensional Self-Assembly and Guest Recognition Ability of Butadiene-Bridged Hexagonal Pyridine Macrocycle at the Solid/Liquid Interface (Grad. Sch. Eng. Sci., Osaka Univ.) ○TAKEDA, Hiroshi; TAHARA, Kazukuni; KATHER, Michael; TOBE, Yoshito

Sunday, March 29, AM

Nanostructures

Chair: TANAKA, Yuya (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4D3-01, 4D3-02, 4D3-03, 4D3-04, 4D3-05, 4D3-06)

4D3-01 Synthesis and Property of Polythiophene Nanotubes with Coordination Site (Fac. Sci. Eng., Kinki Univ.) ○SATO, Syotaro; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

4D3-02 Synthesis and Property of Chiral Polythiophene Nanotubes (Fac. Sci. Eng., Kinki Univ.) ○YAMANAKA, Tomohiro; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

4D3-03 Surface Confined Self-Assembly Composed of Diarylethenes at the Liquid/Solid Interface and Its Dependence on Substitution Position of Thienyl Group (Grad. Sch. Eng., Kyoto Univ.) ○MAEDA, Naoki; HIROSE, Takashi; MATSUDA, Kenji

4D3-04 STM Observation of Cooperative Self-Assemblies Based on Hydrogen Bond Network via Amide or Urea Group (Grad. Sch. Eng., Kyoto Univ.) ○NISHITANI, Nobuhiko; HIROSE, Takashi; MATSUDA, Kenji

4D3-05 Hydrogen-bonding oligophenylene that shows a structural transition from helical to fibrillar nanoarchitectures (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki; ○WAKITA, Kengo; KARATSU, Takashi; KITAMURA, Akihide

4D3-06 Self-assembly of hydrogen-bonding oligothiophene derivatives possessing hydrophilic side chains (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki; ○OUCHI, Hayato; KARATSU, Takashi

Chair: NAKAHODO, Tsukasa (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4D3-08, 4D3-09, 4D3-10, 4D3-12)

4D3-08 Hydrogenation of levulinic acid over Ru-deposited boronate nanoparticles (Urban Environmental Sci., Tokyo Metropolitan Univ.; NIPPON KAYAKU) ○KAKIZAKI, Daiki; FUJIWARA, Seika; NISHIYABU,

Ryuhei; KUBO, Yuji; KOGO, Makiko; MAGATANI, Yasuhiro

- 4D3-09** A Ni Porphyrin Complex with Four Redox-active Ru Acetylide
Pendants: Change of Aromaticity induced upon Oxidation (Chem. Res. Lab.,
Tokyo Tech) ○MISHIBA, Kentaro; TANAKA, Yuya; AKITA, Munetaka
- 4D3-10*** Structure-controlled surface synthesis of molecular-width graphene
nanoribbons by radical polymerization-chemical vapor deposition (IAE,
Kyoto Univ.) ○SONG, Shaotang; FUJITA, Shoichiro; NAKAE, Takahiro;
SAKAGUCHI, Hiroshi
- 4D3-12*** Evolution of Cooperative Self-Assembly Pathway in Hydrogen-
Bonded Cyclic Hexamers (Grad. Sch. Eng., Chiba Univ.) ○YAMAUCHI,
Mitsuaki; ISHIWATARI, Katsuya; YAGAI, Shiki

Chair: SATAKE, Akiharu (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4D3-15, 4D3-17, 4D3-18,
4D3-19, 4D3-20)
- 4D3-15*** Construction of Two-Dimensional Cyclic Array of Zinc Porphyrins
and Binding of Fullerene (Grad. Sch. Eng. Sci., Osaka Univ.) ○IRITANI,
Kohei; TAHARA, Kazukuni; TOBE, Yoshito
- 4D3-17*** Studies on Construction of Porous Multi-Layered Film at Liquid/Solid
Interfaces (Sch. Eng. Sci., Osaka Univ.; PRESTO, JST; KU Leuven-
University of Leuven Department of Chemistry) ○TAHARA, Kazukuni;
LINDNER, Benjamin Daniel; FANG, Yuan; DE FEYTER, STEVEN; TOBE,
Yoshito
- 4D3-18** Studies on Synthesis of Porous Two-Dimensional Polymer Using
Photo-Induced Cross-Linking Reaction at the Solid/Liquid Interface (Grad.
Sch. Eng. Sci., Osaka Univ.) ○TAMAOKA, Akihiro; TAHARA, Kazukuni;
TOBE, Yoshito
- 4D3-19** Dye-Sensitized Solar Cells Using Electropolymerized Porphyrin
Polymers (RCAST, The Univ. of Tokyo) NAKATA, Keita;
○NAKAZAKI, Jotaro; SEGAWA, Hiroshi
- 4D3-20** Synthesis and photophysical property of pentacene-alkanethiolate
monolayer protected metal nanoparticles (Fac. Sci. Tech., Keio Univ.)
○KATO, Daiki; SAKAI, Hayato; HASOBE, Taku

Sunday, March 29, PM

Chair: SAKAI, Hayato (13 : 30~14 : 20)

- * 13:20-13:30: interval for laptop PC connection.(4D3-28, 4D3-29, 4D3-30,
4D3-31, 4D3-32)
- 4D3-28** UV-vis absorption spectra of a water soluble cyclic zinc porphyrin
trimer (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○SHIRAI,
Koichiro; ASAISHI, Akane; SATAKE, Akiharu
- 4D3-29** Synthesis and properties of tetracene derivatives having diesters
groups on one terminal benzene ring (Sch. Eng., The Univ. of Shiga Pref.;
Grad. Sch. Eng., Univ. of Hyogo; Grad. Sch. Eng., Osaka Pref. Univ.)
○TSUMURA, Miyako; TAKEHARA, Munenori; INOUE, Yoshinori;
KITAMURA, Chitoshi; KAWASE, Takeshi; KOBAYASHI, Takashi;
NAITO, Hiroyoshi
- 4D3-30*** Graphite Functionalization Using Electrochemically Generated Aryl
Radicals: Characterization and Control (Grad. Sch. Eng. Sci., Osaka Univ.;
PRESTO, JST) ○LINDNER, Benjamin Daniel; TAHARA, Kazukuni;
GREENWOOD, John; PHAN, Thanh Hai; ISHIKAWA, Toru; DE
FEYTER, STEVEN; TOBE, Yoshito
- 4D3-31** Columnar stacking in the single crystals of 5,10-substituted metallo-
porphyrins (Grad. Sch. Sci., Kyoto Univ.; Grad. Sch. Sci., Kyoto Univ.)
○TANAKA, Takayuki; OOI, Shota; OSUKA, Atsuhiko
- 4D3-32** Synthesis of Covalent Organic Nanotube Using Helical Foldamer
(Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST)
○MAEDA, Kaho; ITO, Hideto; ITAMI, Kenichiro

Room D4
Bldg.10 1021

Physical Organic Chemistry Structures and Properties

Thursday, March 26, AM

Chair: IE, Yutaka (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1D4-01, 1D4-03, 1D4-05,
1D4-06)
- 1D4-01*** Organic Field-Effect Transistors based on BBTNDT derivatives with
High Mobility and Thermal Stability (RIKEN CEMS; Nippon Kayaku Co.
Ltd.) ○ABE, Masahiro; MORI, Takamichi; OSAKA, Itaru; TAKIMIYA,
Kazuo
- 1D4-03*** Singlet fission in organic photovoltaics using non-polycyclic aromatic
molecules (Grad. Sch. Sci., Eng., Yamagata Univ.; PRESTO, JST; MSL,
Tokyo Tech) ○KAWATA, So; PU, Yongjing; SAITO, Ayaka; HADA,
Masaki; SASABE, Hisahiro; KIDO, Junji
- 1D4-05** Chalcogen-bridged L-shaped Organic Semiconductors: Synthesis,
Aggregated Structures, and Device Performance (Grad. Sch. Frontier Sci.,

The Univ. of Tokyo) OKAMOTO, Toshihiro; ○KAYAHARA, Jun; DOSEI,
Hiroaki; NAKAMURA, Ken-ichi; MITSUI, Chikahiko; TANAKA, Yuji;
YANO, Masafumi; TAKEHARA, Tsunayoshi; SUZUKI, Takeyuki;
TAKEYA, Jun

- 1D4-06** High solution-processability by unique structural transition of
selenium-bridged V-shaped organic semiconductors (Grad. Sch. Frontier
Sci., The Univ. of Tokyo; Japan Science and Technology Agency
PRESTO) ○YAMAGISHI, Masakazu; MITSUI, Chikahiko;
YOSHIMOTO, Kazumi; KISHI, Masayuki; SATO, Hiroyasu; YAMANO,
Akihito; TAKEYA, Jun; OKAMOTO, Toshihiro

Chair: OSAKA, Itaru (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1D4-08, 1D4-10, 1D4-11,
1D4-12)
- 1D4-08*** Organic transistor using liquid crystalline Phenyl BTBT derivatives
-dependence of alkyl chain lengths- (Imaging Sci. & Eng. Lab., Tokyo Tech)
○IINO, Hiroaki; OKAMURA, Hisashi; USUI, Takayuki; HANNA, Jun-ichi
- 1D4-10** Synthesis of Alkylated Oxygen-bridged N-shaped pi-conjugated
Molecules and Their Aggregated Structures and Carrier Transporting Prop-
erties (The Univ. of Tokyo Graduate School of Frontier Sciences, PRESTO)
MITSUI, Chikahiko; ○IHARA, Masashi; TANAKA, Shota; TANAKA,
Yuji; AOKI, Yuji; YANO, Masafumi; YAMAGISHI, Masakazu; SATO,
Hiroyasu; YAMANO, Akihito; TAKEYA, Junichi; OKAMOTO, Toshihiro
- 1D4-11** High Mobility Sulfur-bridged N-shaped pi-conjugated Molecules (1):
Efficient Synthetic Method and Device Performances (The Univ. of Tokyo
Graduate School of Frontier Sciences; PRESTO, JST) MITSUI, Chikahiko;
○AOKI, Yuji; NAKAMURA, Ken-ichi; SATO, Hiroyasu; YAMANO,
Akihito; YANO, Masafumi; TAKEYA, Jun; OKAMOTO, Toshihiro
- 1D4-12*** High Mobility Sulfur-bridged N-shaped pi-conjugated Molecules (2):
Device Thermal Durability and Temperature-dependent Alternation of Their
Aggregated Structures (Grad. Sch. Frontier Sci., The Univ. of Tokyo; JST,
PRESTO) ○MITSUI, Chikahiko; AOKI, Yuji; YOSHIMOTO, Kazumi;
YAMAGISHI, Masakazu; TAKEDA, Koudai; KATAYAMA, Masayuki;
KATO, Tetsuya; HASHIZUME, Daisuke; YANO, Masafumi; SATO,
Hiroyasu; YAMANO, Akihito; TAKEYA, Jun; OKAMOTO, Toshihiro

Organic Semiconductor

Chair: OKAMOTO, Toshihiro (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1D4-15, 1D4-18, 1D4-19,
1D4-20)
- 1D4-15** Young Scholar Lectures of CSJ Higher-order structures in
small-molecule amorphous organic semiconductor films and their applications
to OLEDs and OPVs (Grad. Sch. Sci., Eng., Yamagata Univ.)
○YOKOYAMA, Daisuke
- 1D4-18** Synthesis, Properties, and Photovoltaic Performances of N-arylphthal-
ic Imide Derivatives Bearing Electron-withdrawing End Groups (ISIR,
Osaka Univ.) ○JINNAI, Seihou; IE, Yutaka; ASO, Yoshio
- 1D4-19** Simultaneous Manipulation of Intramolecular and Intermolecular
Hydrogen Bonds in n-Type Organic Semiconductor Layers: Realization of
Horizontal Orientation in OLEDs (Grad. Sch. Sci., Eng., Yamagata Univ.)
○WATANABE, Yuichiro; SASABE, Hisahiro; YOKOYAMA, Daisuke;
BEPPI, Teruo; KATAGIRI, Hiroshi; PU, Yong-jin; KIDO, Junji
- 1D4-20** Synthesis of bifluorenylidene derivatives and their singlet fission
mechanism in organic photovoltaics (Grad. Sch. Sci., Eng., Yamagata Univ.;
PRESTO, JST; MSL, Tokyo Tech) ○KIMURA, Takuya; PU, Yong-jin;
FURUDATE, Junki; KAWATA, So; SAITO, Ayaka; HADA, Masaki;
SASABE, Hisahiro; KIDO, Junji

Thursday, March 26, PM

Molecular Magnetism

Chair: SUZUKI, Shuichi (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(1D4-33, 1D4-34, 1D4-35,
1D4-36, 1D4-37, 1D4-38)
- 1D4-33** Chemical modification of 6-oxoverdazyl derivatives using organome-
tallic reaction and their physicochemical properties (Grad. Sch. Sci. Tech.,
Keio Univ.) ○OSHIMA, Shota; MIURA, Youhei; YOSHIOKA, Naoki
- 1D4-34** Magneto-structural correlation in nitronyl nitroxide biradical deriva-
tive having Hydrogen bonding sites (Fac. Sci. Tech., Keio Univ.) ○SAITO,
Takataada; MIURA, Youhei; YOSHIOKA, Naoki
- 1D4-35** Synthesis of diacetylene derivatives carrying an oxoverdazyl spin
center and their magneto-structural correlation (Fac. Sci. Tech., Keio Univ.)
○ISHII, Tomoaki; SHIMAJI, Takuro; MIURA, Youhei; YOSHIOKA,
Naoki
- 1D4-36** Studies on 2,6-pyridinediyl dinitroxides stable under ambient condi-
tions (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications)
○KAWAKAMI, Hinako; TONEGAWA, Asato; ISHIDA, Takayuki
- 1D4-37** Study on m-phenylene-bridged di- and trinitroxide compounds
showing structural phase transition (Grad. Sch. Sci. Eng., The Univ. of
Electro-Communications) ○YOSHITAKE, Toru; ISHIDA, Takayuki
- 1D4-38** Structures and Properties of Mixed-Valence Molecular Crystals with
chirality based on Trioxotriangulene (Aichi Inst. of Tech.; Grad. Sch. Sci.,
Osaka Univ.; CREST, JST) ○YAMADA, Chiaki; TORII, Takeshi;

MURATA, Tsuyoshi; MORITA, Yasushi

Chair: MORITA, Yasushi (15 : 30~16 : 30)

* 15:20-15:30: interval for laptop PC connection.(1D4-40, 1D4-41, 1D4-42, 1D4-43, 1D4-44, 1D4-45)

1D4-40 Synthesis and Properties of Trinuclear Gold(I) Complex Bearing Imino Nitroxide Radical as Ligand (Grad. Sch. Sci., Osaka City Univ.) OWADA, Tomoyuki; SUZUKI, Shuichi; KOZAKI, Masatoshi; SHIOMI, Daisuke; SATOU, Kazunobu; TAKUI, Takeji; OKADA, Keiji**1D4-41** Synthesis and physicochemical properties of 3-*tert*-butyl-benzotriazinyl radicals carrying electron withdrawing group (Grad. Sch. Sci. Tech., Keio Univ.) OTAKAHASHI, Yusuke; MIURA, Youhei; YOSHIOKA, Naoki**1D4-42** Synthesis of diphenylamine derivatives carrying two phenol units and physicochemical properties of their oxidized products (Grad. Sch. Sci. Tech., Keio Univ.) ADACHI, Koki; MIURA, Youhei; YOSHIOKA, Naoki**1D4-43** Synthesis of selectively deuterated nitroxide derivatives and their ESR spectra (Fac. Sci. Tech., Keio Univ.) OZORA, Norimasa; EMURA, Yoichiro; MIURA, Youhei; YOSHIOKA, Naoki**1D4-44** Synthesis, Structure, and Property of Bis(silylradical) Bridged by Biphenyl Spacer (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OTAKAHARA, Yuta; ICHINOHE, Masaaki; SEKIGUCHI, Akira**1D4-45[#]** Theoretical Investigation on the Decaying Behavior of Exchange Interaction in Quinoid and Aromatic Molecular Wires (Grad. Sch. Eng., Kyoto Univ.; CRC, Hokkaido Univ.) ONISHIZAWA, Shohei; HASEGAWA, Jun-ya; MATSUDA, Kenji

Optical Properties

Chair: MATSUDA, Kenji (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(1D4-47, 1D4-48, 1D4-49, 1D4-50, 1D4-51, 1D4-52)

1D4-47 Photostabilities of phthalocyanine derivatives with distorted π -system (IMS; SOKENDAI; JST ACT-C) ENOMOTO, Takafumi; KONDO, Mio; MASAOKA, Shigeyuki**1D4-48** Synthesis and Physical Properties of D- π -A type 1,4-Diaryl-1,3-butadiene Dyes Having a Diphenylamino Group as an Electron-Donating Group (Grad. Sch. Sci., Eng., Saitama Univ.) MAKISHIMA, Yukihiko; NAKATA, Norio; ISHII, Akihiko**1D4-49** Solid-state Fluorescence Properties of Diazo[1,2-*a*:2',1'-*c*]quinoxaline Derivatives and Their Crystal Structures (Grad. Sch. Eng., Chiba Univ.) MATSUMOTO, Shoji; AKAZOME, Motohiro**1D4-50** Mechanochromic Luminescence Properties of D-A-D Type Dibenz[*a*,*j*]phenazine Derivatives (Grad. Sch. Eng., Osaka Univ.) OKAZAKI, Masato; TAKEDA, Youhei; MINAKATA, Satoshi**1D4-51** Solid-State Luminescent Properties of Laterally Substituted D- π -A Type Biphenyls (KIT) TAMAGAWA, Tomokazu; SHIMIZU, Masaki**1D4-52** Fluorescent Properties of 2,5-Dialkoxyterephthalic Acid Diesters (KIT) SHIGITANI, Ryosuke; SHIMIZU, Masaki

Friday, March 27, AM

Molecular Magnetism

Chair: ISHIDA, Takayuki (9 : 10 ~ 10 : 00)

* 9:00-9:10: interval for laptop PC connection.(2D4-02, 2D4-03, 2D4-04, 2D4-05)

2D4-02 Syntheses and Magnetic Properties of Biradical Ligand with Multi-Chelating and High-Spin Properties and Its Transition-Metal Complexes (Grad. Sch. Arts and Sci., The Univ. of Tokyo) OKAZAWA, Atsushi; KOJIMA, Norimichi**2D4-03** Synthesis of chromium(V) nitride complex with Schiff base ligand carrying a nitronyl nitroxide unit and its physicochemical properties (Grad. Sch. Sci. Tech., Keio Univ.) ONAKAGOME, Shin; TAKAHASHI, Yusuke; MIURA, Youhei; YOSHIOKA, Naoki**2D4-04** Preparations, Molecular Structures, and Magnetic Properties of Heterospin Dinuclear Complexes of Various 3d Metal Ions (Grad. Sch. Pharm., Kyushu Univ.) MORI, Koya; YOSHIHARA, Daisuke; MURASHIMA, Kensuke; KARASAWA, Satoru; KOGA, Noboru**2D4-05*** Molecular Structures and Magnetic Properties of Photoresponsive 2p-3d-4f Heterospin 1-D complexes (Grad. Sch. Pharm., Kyushu Univ.) MURASHIMA, Kensuke; KARASAWA, Satoru; KOGA, Noboru

Organic Semiconductor

Chair: UEDA, Akira (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2D4-08, 2D4-09, 2D4-10, 2D4-11, 2D4-12)

2D4-08 Photoprecursors of Anthrathiophene-Benzothiadiazole Conjugates for Solution-processed Photovoltaic Cells (Grad. Sch. Mat. Sci., NAIST) YAMAMOTO, Shinpei; YAMAGUCHI, Yuji; TAKAHIRA, Katsuya; SUZUKI, Mitsuharu; NAKAYAMA, Ken-ichi; YAMADA, Hiroko**2D4-09** Development of Non-Volatile Organic Memories Based on Donor-Acceptor Hybrid Molecules (Fac. Eng., Kyushu Univ.; IFRC, Kyushu Univ.; PRESTO, JST) TACHIBANA, Hiroki; OHTANI, Issei; ADACHI, Chihaya; YASUDA, Takuma**2D4-10** The effect of anchoring position of diarylethene molecule to gold nanoparticles for the switching direction of conductance (Grad. Sch. Eng., Kyoto Univ.; PRESTO, JST) TOYAMA, Taichi; HIGASHIGUCHI, Kenji; NAKAMURA, Tsukuru; MATSUDA, Kenji**2D4-11** Ambipolar Transport in Stable Neutral Organic Boron-Containing Radical Mott Insulator (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; Grad. Sch. Frontier Sci., The Univ. of Tokyo) KUSHIDA, Tomokatsu; SHIRAI, Shusuke; OKAMOTO, Toshihiro; MATSUI, Hiroyuki; YAMAGISHI, Masakazu; UEMURA, Takafumi; TAKEYA, Jun; YAMAGUCHI, Shigehiro

Optical Properties

2D4-12* A molecular design strategy that demonstrates compatibility between small singlet-triplet energy gap and large fluorescence quantum yield (OPERA, Kyushu Univ.) HIRATA, Shuzo; SAKAI, Yumi; MASUI, Kensuke; TANAKA, Hiroyuki; ADACHI, Chihaya

Chair: KARASAWA, Satoru (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2D4-15, 2D4-16, 2D4-17, 2D4-18, 2D4-19, 2D4-20)

2D4-15 Synthesis and Photochemical Properties of Novel Pentacene-Biradical Derivatives (Grad. Sch. Sci., Osaka City Univ.) SHIMIZU, Akihiro; ITO, Akitaka; TEKI, Yoshio**2D4-16** Fluorogenic detection of aromatic hydrocarbons by porous organic crystals (Grad. Sch. Eng., Kyushu Univ.; Kyushu Univ. CMS; PRESTO, JST) HATANAKA, So; ONO, Toshikazu; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio**2D4-17** Creation of Highly Emitting Room Temperature Phosphorescence Materials by Crystal Engineering Approach (Fac. Eng., Kyushu Univ.; Kyushu Univ. CMS; PRESTO, JST) FUKUDA, Yuki; ONO, Toshikazu; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio**2D4-18** Synthesis and Solid-State Fluorescence of *N*-Boc-Indolylbenzothiadiazole Derivatives (Grad. Sch. Eng., Yokohama Natl. Univ.) ITO, Suguru; YAMADA, Takeshi; YAMAGUCHI, Yoshitaka; ASAMI, Masatoshi**2D4-19** Optical activity and thermally activated delayed fluorescence in naphthalenone derivatives having triphenylamine moiety (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Sci., Eng., Tokyo Tech) IMAGAWA, Takuro; HIRATA, Shuzo; TOTANI, Kenro; VACHA, Martin; WATANABE, Toshiyuki**2D4-20** Elucidation of aggregate structure and photoinduced charge-separated state of amphiphilic ferrocene-porphyrin-fullerene triads in highly polar solvents (Grad. Sch. Eng., Kyoto Univ.; iCeMS, Kyoto Univ.) ONAKAO, Kazuya; TAKANO, Yuta; MURAKAMI, Tatsuya; IMAHORI, Hiroshi

Friday, March 27, PM

Chair: TEKI, Yoshio (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2D4-28, 2D4-29, 2D4-30, 2D4-32)

2D4-28 Red Emissive Materials Consisting of Electron-Accepting Diketothio-pyranthiopyran (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ADACHI, Makoto; FUKAZAWA, Aiko; YAMAGUCHI, Shigehiro**2D4-29** Two-photon Excited NIR Emissive Materials Consisting of a ESIPT Fluorophore (Grad. Sch. Sci., Nagoya Univ.; UBIQEN, AIST; WPI-ITbM, Nagoya Univ.) SUZUKI, Naoya; FUKAZAWA, Aiko; TAKI, Masayasu; KAMADA, Kenji; YAMAGUCHI, Shigehiro**2D4-30[#]** Highly Fluorescent and Photostable Phosphore-based Dyes (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) WANG, Chenguang; FUKAZAWA, Aiko; YAMAGUCHI, Eriko; TAKI, Masayasu; SATO, Yoshikatsu; HIGASHIYAMA, Tetsuya; YAMAGUCHI, Shigehiro**2D4-32[#]** Recent developments in the field of benzothiophene based photochromic derivatives (Grad. Sch. Mat. Sci., NAIST) GALANGAU, Olivier; KAWAI, Tsuyoshi

Chair: FUKAZAWA, Aiko (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(2D4-35, 2D4-37, 2D4-38, 2D4-39, 2D4-40)

2D4-35[#] Temperature Effect on Fluorescence Enhancement of Covalently-Linked Fluorescent Chromophores with Naphthalene-1,8-diyl Linker Units (Grad. Sch. Eng., Kyoto Univ.) HIROSE, Takashi; TSUNOI, Yohei; FUJIMORI, Yuya; MATSUDA, Kenji**2D4-37** Synthesis, Conformation, and Fluorescence Properties of (1,8) Pyrenophanes (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) GESHI, Makoto; HIROSE, Kenji; MAEDA, Hajime; SEGI, Masahito**2D4-38** Substituent effect for the optical properties in the functional naphthoquinone pigment (Kinki Univ.) AKIYAMA, Hirotaka; SAKO, Akihiro; TAJIMA, Nobuo; IMAI, Yoshitane**2D4-39** Non-classical control of circularly polarized luminescence (CPL) properties in optically active binaphthyl derivatives (Kinki Univ.) KITAYAMA, Yoko; OTA, Ayaka; NAKABAYASHI, Kazuki; SHIZUMA, Motohiro; TAJIMA, Nobuo; FUJIKI, Michiya; IMAI, Yoshitane**2D4-40** Circularly polarized luminescence (CPL) property utilizing chiral transfer in axially chiral binaphthyl compound having fluorescent unit. (Kinki

Univ.) ○NAKABAYASHI, Kazuki; AMAKO, Tomoyuki; FUJIKI, Michiya; IMAI, Yoshitane

Chair: SUZUKI, Yumiko (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2D4-42, 2D4-44, 2D4-46, 2D4-47)

2D4-42* Control of photocleavage reaction of caged compound by intramolecular hydrogen bond. (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○HONDA, Takuya; ARAI, Tatsuo

2D4-44* Systematic exploration of non-radiative decay paths : Toward qualitative prediction of fluorescence quantum yield (Fac. Sci., Hokkaido Univ.; JST CREST) ○HARABUCHI, Yu; MAEDA, Satoshi; TAKETSUGU, Tetsuya

2D4-46 Dynamics of up-conversion based on triplet-triplet annihilation in hydrophobic DNA (Grad. Sch. Eng., Shizuoka Univ.) ○MANISHI, Hironori; KAWAI, Hideki

2D4-47 Photon Upconversion in triplet energy harvesting ionic liquids (Grad. Sch. Eng., Kyushu Univ.) ○HISAMITSU, Shota; YANAI, Nobuhiro; KIMIZUKA, Nobuo

Chair: HIROSE, Takashi (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(2D4-49, 2D4-50, 2D4-51, 2D4-52, 2D4-54)

2D4-49 Intramolecular Photocyclization of Quinoline Derivative and Its Self-assembly Behavior (Grad. Sch. Pharm., Kyushu Univ.) ○KARASAWA, Satoru; TODO, Jyun-ichi; USUI, Kazuteru; SUEMUNE, Hiroshi; KOGA, Noboru

2D4-50 Photoreaction Behavior of Dinaphthylidene Derivatives (Grad. Sch. Pharm., Kyushu Univ.) ○RYUSUKE, Hagihara; KARASAWA, Satoru; NOBORU, Koga

2D4-51 Preparation and Photophysical Properties of Haxaazapentacene Derivatives (Grad. Sch. Pharm., Kyushu Univ.) ○HIROTA, Junko; HARADA, Naomi; KARASAWA, Satoru; KOGA, Noboru

2D4-52* Visible room-temperature phosphorescence of pure organic crystals via a radical-ion-pair mechanism (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○YUASA, Hideya; KUNO, Shinichi; AKENO, Hiroshi; OHTANI, Hiroyuki

2D4-54 Synthesis of pH-responsive near-infrared cyanine dye (Grad. Sch. Eng., Kyoto Univ.) MIKI, Koji; ○KOJIMA, Kentaro; OHE, Kouichi

Saturday, March 28, AM

Chair: TAKAGUCHI, Yutaka (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3D4-01, 3D4-02, 3D4-03, 3D4-05, 3D4-06)

3D4-01 Development of Novel Quinazoline Fluorophore I (Fac. Sci., Sophia Univ.; CNRS, ENSICAEN & Université de Caen) ○MOTOYAMA, Miho; SZYLD, Malgorzata; HIBNER, Paulina; WITULSKI, Bernhard; SUZUKI, Yumiko

3D4-02 Development of Novel Quinazoline Fluorophore II (Fac. Sci., Sophia Univ.) ○OTAKE, Ryo; SZYLD, Malgorzata; HIBNER, Paulina; WITULSKI, Bernhard; SUZUKI, Yumiko

3D4-03* Structures and Photophysical Properties of Fluorescent Solvatochromic Dyes Based on Thiophene and Pyridine Rings (Fac. Env.Earth Sci., Hokkaido Univ.) SAKURAI, Shohei; ○YAMADA, Koji

3D4-05 Synthesis of 9,10-dihydrodisilaanthracenes and their optical properties (Grad. Sch. Sci., The Univ. of Tokyo) ○NAKASHIMA, Takayuki; KURIHARA, Yu; SHIMADA, Masaki; YAMANOI, Yoshinori; NISHIHARA, Hiroshi

3D4-06 Synthesis and Chiroptical Properties of [4]Rotaxane Containing an Alkynylpyrene Pair in an Asymmetrically Twisted Manner (Grad. Sch. Pharm. Sci., Univ. of Toyama; Grad. Sch. Sci. Eng., Univ. of Toyama; Kyushu Sangyo Univ. Dept. Appl. Chem. Biochem.) ○HAYASHI, Koichiro; ITOU, Tatsuya; UCHIDA, Taka-aki; IWAMURA, Munetaka; NOZAKI, Koichi; FUJIMOTO, Kazuhisa; INOUE, Masahiko

Chair: YAMANOI, Yoshinori (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3D4-08, 3D4-09, 3D4-10, 3D4-11, 3D4-12, 3D4-13)

3D4-08 Synthesis and Self-Assembly of a New [60]Fullerene-Pentacene Monoadduct (Okayama Univ. Graduate School of Environmental and Life Science) ○NISHIHAMA, Takuya; TAJIMA, Tomoyuki; SHIRAI, Hitoshi; KUBO, Kentaro; TAKAGUCHI, Yutaka

3D4-09 Synthesis and Properties of (Terthiophene)₄-poly(amidoamine)-C₆₀ pentad (Okayama Univ. Grad. Sch. Env. Sci.) ○TAJIMA, Tomoyuki; NISHIHAMA, Takuya; TAKAGUCHI, Yutaka

3D4-10[#] BODIPY Derivatives Incorporating Dithiacrown Ether Substituents Showing Combined Environmental Polarity and Heavy Metal Cation Sensing Functionality (Fac. Sci., Ochanomizu Univ.; Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○RICHARDS, Gary James; GOBO, Yuki; YAMAMURA, Masaki; NABESHIMA, Tatsuya

3D4-11 Arrangement conversion and luminescence properties in crystalline state of organic salts composed of disulfonic acids with thiophene frameworks and amines (Grad. Sch. Eng., Osaka Univ.; ISIR, Osaka Univ.) ○NISHIDA, Ryunosuke; MIYANO, Tetsuya; HISAKI, Ichiro; MIYATA, Mikiji; TOHNAI, Norimitsu

3D4-12 time-resolved CD study on the photo-excited state of chiral dimer molecule (IMRAM, Tohoku Univ.; Osaka Univ. Graduate School of Engineering) ○ARAKI, Yasuyuki; KURONUMA, Makoto; SAKAMOTO, Seiji; MORI, Tadashi; INOUE, Yoshihisa; WADA, Takehiko

3D4-13 The Energy Migration in the Xanthene Derivative-Inorganic Complex toward the Construction of Artificial Light-Harvesting System (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) ○OHTANI, Yuta; SHIMADA, Tetsuya; TAKAGI, Shinsuke

Molecular Recognition

Chair: NAKAZONO, Kazuko (11 : 20~11 : 40)

* 11:10-11:20: interval for laptop PC connection.(3D4-15, 3D4-17, 3D4-19)

3D4-15* Halogen Bond-Assisted Inclusion of Organic Halides in a Self-Assembled Octahedral Cage (Grad. Sch. Eng., The Univ. of Tokyo; Fac. Sci., Yamagata Univ.) ○TAKEZAWA, Hiroki; MURASE, Takashi; HOSHINO, Manabu; FUJITA, Makoto

Chair: NAKAZONO, Kazuko (11 : 40~12 : 20)

3D4-17* Influence of the central metal on the molecular recognition of chiral carboxylic acids by metal complexes of a pyridine-benzimidazole-based ligand (Grad. Sch. Sci., Eng., Yamagata Univ.) ○ZHAO, Shuang; KATAGIRI, Hiroshi

3D4-19* Synthesis, Self-association, and Anion Recognition of Conjugated Macrocycles Composed of Carbazole and Triazole Moieties (Grad. Sch. Sci. Tech., Gunma Univ.) ○JIN, Satoshi; KATO, Shin-ichiro; NAKAMURA, Yosuke

Saturday, March 28, PM

Chair: NAKAMURA, Yosuke (14 : 20~15 : 20)

* 14:10-14:20: interval for laptop PC connection.(3D4-33, 3D4-35, 3D4-37)

3D4-33* Bifunctional Porphyrin Catalysts for Carbon Dioxide Fixation: Structural Optimization and Substrate Scope (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○MAEDA, Chihiro; SHIMONISHI, Junta; EMA, Tadashi

3D4-35* Construction of a Novel Sensing System Through a Combination of Oxime-Click Reaction and Aggregation-Induced Emission (AIE) (ISIT Nanotech Laboratory; IAS, Kyushu Univ.; Fac. Eng., Sojo Univ.) ○YOSHIHARA, Daisuke; NOGUCHI, Takao; TSUCHIYA, Youichi; SHINKAI, Seiji

3D4-37* Molecular recognition system orchestrated by self-assembly: Fluorometric readout of dicarboxylates (IAS, Kyushu Univ.) ○NOGUCHI, Takao; SHINKAI, Seiji

Chair: MOROHASHI, Naoya (15 : 30~16 : 30)

* 15:20-15:30: interval for laptop PC connection.(3D4-40, 3D4-42, 3D4-43, 3D4-44)

3D4-40[#] Selective Synthesis of Unsymmetrical 2,6-diarylpyridines Utilizing Palladium Macrocyclic Catalyst (Grad. Sch. Sci., Eng., Tokyo Tech) ○OGAWA, Masahiro; SOGAWA, Hiromitsu; TAKATA, Toshikazu

3D4-42 Mechanistic Studies on Pyridine-containing Rotaxane-Catalyzed *O*-acylation. (Grad. Sch. Sci., Eng., Tokyo Tech) ○IWASE, Takuya; XU, Kun; NAKAZONO, Kazuko; TAKATA, Toshikazu

3D4-43 Synthesis and Helical Structure of Polyacetylene having Topologically Chiral Rotaxane Moiety (Grad. Sch. Sci., Eng., Tokyo Tech) ○MATSUURA, Kazuki; NAKAZONO, Kazuko; TAKATA, Toshikazu

3D4-44* Nanospace toward molecular inclusion formed in a ternary assembly of a tetracationic metallomacrocyclic and two dianionic metalloporphyrins (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) ○NISHINO, Toshiro; YAMADA, Yasuyuki; TANAKA, Kentaro

Chair: YAMADA, Yasuyuki (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(3D4-47, 3D4-49, 3D4-50, 3D4-51, 3D4-52)

3D4-47[#] Shape-Selective Host-Guest Complexation of γ -Cyclodextrin on Nanocarbon Surfaces (Grad. Sch. Sci., The Univ. of Tokyo; CREST, JST) ○YAMADA, Junya; KUMAMOTO, Akihito; OKADA, Satoshi; SHIBATA, Naoya; HARANO, Koji; NAKAMURA, Eiichi

3D4-49[#] Observation of Anionic Species on Functionalized Carbon Nanohorns by Transmission Electron Microscopy (Grad. Sch. Sci., The Univ. of Tokyo; CREST, JST) ○MATSUMOTO, Kei; KUMAMOTO, Akihito; SHIBATA, Naoya; HARANO, Koji; NAKAMURA, Eiichi

3D4-50 Carboxylic Acid Recognition of a Diamidine Having 1,8-Diphenylanthracene Unit (KIT) KUSUKAWA, Takahiro; ○ARAMOTO, Hiroki; HARADA, Toshiro

3D4-51 Phosphonic Acid Recognition of a Diamidine Having an Anthracene Unit (KIT) KUSUKAWA, Takahiro; ○NAKAGUCHI, Keita; NAGANO, Hitoshi; HARADA, Toshiro

3D4-52 Carboxylic Acid Recognition of a Diamidine Having 1,8-Diphenyl-naphthalene Unit (KIT) KUSUKAWA, Takahiro; ○MATOBA, Keisuke; HARADA, Toshiro

Chair: INOKUMA, Yasuhide (17 : 50~18 : 50)

* 17:40-17:50: interval for laptop PC connection.(3D4-54, 3D4-55, 3D4-56, 3D4-57, 3D4-58)

- 3D4-54** Selective inclusion of aromatic regioisomers with molecular crystals of calix[4]arene (Grad. Sch. Eng., Tohoku Univ.) ○TONOSAKI, Ayano; MOROHASHI, Naoya; HATTORI, Tetsutaro
- 3D4-55** Recovery of guest molecules from inclusion crystals of calix[4]arenes and reuse of host crystals (Grad. Sch. Eng., Tohoku Univ.) ○EBATA, Kouhei; MOROHASHI, Naoya; HATTORI, Tetsutaro
- 3D4-56** Fullerene Recognition of Concave Host Molecule Having Two Phosphorus Atoms (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○HONGO, Daigo; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 3D4-57** Diastereoselective Encapsulation of Chiral Guest by Coordination Capsule (Grad. Sch. Sci., Hiroshima Univ.; Grad. Sch. Sci., Tohoku Univ.) ○TSUNODA, Yuta; FUKUTA, Katsunori; SEKIYA, Ryo; FURUYAMA, Taniyuki; KOBAYASHI, Nagao; HAINO, Takeharu
- 3D4-58** Molecular recognition of calix[5]arene with small organic guests in the solid state (Fac. Sci., Hiroshima Univ.) ○KAJIKI, Yasunori; SEKIYA, Ryo; HAINO, Takeharu

Sunday, March 29, AM

Chair: HAINO, Takeharu (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4D4-01, 4D4-02, 4D4-03, 4D4-04, 4D4-05, 4D4-06)
- 4D4-01** Hydrophilic Polymers Recognition within a Crystalline Peptidic Helical Nanocavity (Grad. Sch. Eng., The Univ. of Tokyo) ○TATSUKI, Miyaji; TOMOHISA, Sawada; MAKOTO, Fujita
- 4D4-02** Development of a new crystalline sponge based on the structural flexibility and molecular recognition (Grad. Sch. Eng., The Univ. of Tokyo; PRESTO, JST) ○MATSUMURA, Kazuki; ARAI, Tatsuhiko; INOKUMA, Yasuhide; FUJITA, Makoto
- 4D4-03** Synthesis and evaluation of guest recognition on head-to-head linked cyclodextrin dimers (Grad. Sch. Sci., Eng., Saitama Univ.) ○FUJISAKI, Yuu; ISHIMARU, Yoshihiro
- 4D4-04[#]** Functional Group Pre-installed Crystalline Sponges for Specific Guest Inclusion (Grad. Sch. Eng., The Univ. of Tokyo) ○SUN, Hongmei; LARAMEE, Baptiste; INOKUMA, Yasuhide; FUJITA, Makoto
- 4D4-05[#]** The Effect of Cavity Shrinkage on Diels-Alder Reactions of Naphthalenes within a Self-Assembled Cage (Grad. Sch. Eng., The Univ. of Tokyo) ○FANG, Yu; MURASE, Takashi; FUJITA, Makoto
- 4D4-06** Synthesis and Complexation Behavior of Molecular Receptors Containing Ethynylcarbazole Moieties at 1,8-Positions of Carbazole (Grad. Sch. Sci. Tech., Gunma Univ.) ○SAKAINO, Yuta; YASUDA, Kenji; KATO, Shin-ichiro; MATSUO, Ichiro; NAKAMURA, Yosuke

Chair: YAMAMURA, Masaki (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4D4-08, 4D4-09, 4D4-10, 4D4-11, 4D4-12, 4D4-13)
- 4D4-08** Synthesis and fluorescence properties of (1,3)pyrenophanes containing crown ether moieties (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○NAKAMURA, Keigo; MAEDA, Hajime; SEGI, Masahito
- 4D4-09** Fluorescent sensing of mercury(II) ion by use of 1,3-bis(pyren-1-yliminomethyl) calix[4]arene (Grad. Sch. Eng., Tohoku Univ.) ○HIRASAWA, Kengo; WATANABE, Kyohei; TANAKA, Shinya; HATTORI, Tetsutaro
- 4D4-10** Synthesis of carbazole ligands containing multi-metal ion binding sites and complex formation with zinc and europium ions (Grad. Sch. Mat. Sci., NAIST) ○IMAI, Yuki; YUASA, Junpei; KAWAI, Tsuyoshi
- 4D4-11** Synthesis of bridging bidentate ligands having chiral imidazole moieties and analysis of their circular dichroism (Grad. Sch. Mat. Sci., NAIST) ○NAKANO, Yuka; KAWAI, Tsuyoshi; YUASA, Junpei
- 4D4-12** Tiara-shaped metal-thiolate macrocyclic host containing multiple metal-binding site (Grad. Sch. Env. Sci., Hokkaido Univ.; Fac. Env. Earth Sci., Hokkaido Univ.) ○YOSHIDA, Keisuke; SHICHIBU, Yukatsu; KONISHI, Katsuaki
- 4D4-13** Optical responses of subnanometer-sized gold clusters with guest binding sites (Grad. Sch. Env. Sci., Hokkaido Univ.; Fac. Env. Earth Sci., Hokkaido Univ.) ○IWASAKI, Mitsuhiro; KOBAYASHI, Naoki; SUGIUCHI, Mizuho; SHICHIBU, Yukatsu; KONISHI, Katsuaki

Chair: YUASA, Junpei (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4D4-15, 4D4-16, 4D4-17, 4D4-18, 4D4-19, 4D4-20)
- 4D4-15** Turn-on Detection of Cysteine with 2,5-Diaminoterephthalic Acid Dithioesters (KIT) ○FUKUI, Hiroki; SHIMIZU, Masaki
- 4D4-16[#]** Crystalline sponge method: structural elucidation of scaffold-related sesquiterpene derivatives (Grad. Sch. Eng., The Univ. of Tokyo) ○ZIGON, Nicolas; YOSHIOKA, Shota; HOSHINO, Manabu; INOKUMA, Yasuhide; FUJITA, Makoto
- 4D4-17** Synthesis and Evaluation of Anion Receptors Having Halogen Bond Donors (Fac. Sci., Yamagata Univ.) ○SHIBUYA, Satoshi; KONDO, Shin-ichi
- 4D4-18** Pincer-shaped Molecules with Pyrene Blades: Unique Guest Inclusion Behavior in Crystalline State. (Grad. Sch. Eng., The Univ. of Tokyo) ○SHIBUYA, Yoshiki; ITOH, Yoshimitsu; AIDA, Takuzo
- 4D4-19[#]** Embedding (and compressing) a non-planar aromatic guest in the flat cavity of a box-shaped coordination cage (Fac. Eng., The Univ. of Tokyo)

- SCHMIDT, Bernd M.; OSUGA, Takafumi; SAWADA, Tomohisa; FUJITA, Makoto
- 4D4-20** Structure Elucidation of Medium-Sized Molecules with a Cavity-expanded Crystalline Sponge (Grad. Sch. Eng., The Univ. of Tokyo; JST-ACCEL; Rigaku Corporation Application Laboratories) ○DOMOTO, Yuya; FANG, Yu; SATO, Hiroyasu; INOKUMA, Hideyasu; FUJITA, Makoto

Sunday, March 29, PM

Chair: KUSUKAWA, Takahiro (13 : 30 ~ 14 : 20)

- * 13:20-13:30: interval for laptop PC connection.(4D4-28, 4D4-29, 4D4-30, 4D4-31, 4D4-32)
- 4D4-28** Indolinium-coumarin conjugates as highly sensitive fluorescent sensors for cyanide anion (RCSE, Osaka Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○NAKAMURA, Masaya; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 4D4-29[#]** Synthesis and evaluation of tetrakisurea derivatives bearing flexible three 2,2'-biphenylene skeleton (Grad. Sch. Sci., Eng., Yamagata Univ.) ○SATAKE, Akira; KONDO, Shin-ichi
- 4D4-30** Synthesis of Anion-Responsive .pi.-Electronic Molecules Comprising Alternately Arranged Pyrrole and Diketone Moieties (Coll. Pharm. Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; ○KINOSHITA, Keita
- 4D4-31** Synthesis of Anion-Responsive .pi.-Systems Possessing Inverted Pyrroles (Coll. Pharm. Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; ○YAMASHITA, Yukihiro
- 4D4-32** Cadmium-Specific Fluorescent Response of TQEN Derivatives Containing Ether/Thioether Moiety (Grad. Sch. Human. Sci., Nara Women's Univ.) ○KIZU, Asako; MIKATA, Yuji

Chair: ITOH, Yoshimitsu (14 : 30 ~ 15 : 20)

- * 14:20-14:30: interval for laptop PC connection.(4D4-34, 4D4-35, 4D4-36, 4D4-37, 4D4-38)
- 4D4-34[#]** Guest Encapsulation by an Adaptable M₁₈L₆ - M₂₄L₈ Coordination Capsule (Grad. Sch. Eng., The Univ. of Tokyo) ○WANG, Shitao; SAWADA, Tomohisa; FUJITA, Makoto
- 4D4-35** Molecular-Shape Recognition by Rigid Dendrimers (Chem. Res. Lab., Tokyo Tech) ○KATOH, Yuto; KAMBE, Tetsuya; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 4D4-36** Asymmetric Reaction using Rotaxane Organocatalysts with Dynamic Asymmetric Field (Grad. Sch. Sci., Eng., Tokyo Tech) ○KUN, Xu; KAZUKO, Nakazono; TOSHIKAZU, Takata
- 4D4-37** Synthesis of highly photo-stable rotaxane-type alkylnylpyrenes that could be excited with visible light (Grad. Sch. Pharm. Sci., Univ. of Toyama) ○YOSHIZAWA, Atsushi; ITOU, Tatsuya; INOUE, Masahiko
- 4D4-38** Synthesis of Cyclophane Hexamer Based on A Triphenylene Moiety And Guest-binding abilities (Fac. Sci., Fukuoka Univ.) ○MATSUO, Toshiyuki; HAYASHIDA, Osamu

Room D5 Bldg.10 1022

Physical Organic Chemistry Reaction Mechanism

Friday, March 27, AM

Chair: KITAGAWA, Toshikazu (10 : 00 ~ 10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(2D5-07, 2D5-09, 2D5-10, 2D5-11)
- 2D5-07[#]** Kinetic studies on generation and cycloaddition reaction of ylide intermediates derived from siloxycarbenes and quinolines (Fac. Sci., Gakushuin Univ.; Grad. Sch. Sci., Eng., Tokyo Tech; Grad. Sch. Sci., Hiroshima Univ.) ○ISHIDA, Kento; SATO, Junpei; ICHIKAWA, Kenichi; MIZUNO, Takemi; IWASAWA, Nobuharu; ABE, Manabu; KUSAMA, Hiroyuki
- 2D5-09** Unexpected Formation of a Phenonium Ion-Containing Salt: Isolation and Mechanistic Analysis (Grad. Sch. Eng., Osaka Pref. Univ.; Osaka Pref. Univ. The Research Institute for Molecular Electronic Devices) ○KURAMOTO, Yutaro; MATSUI, Yasunori; OHTA, Eisuke; IKEDA, Hiroshi
- 2D5-10** The effect of aromaticity in excited-state proton transfer reaction (Grad. Sch. Sci., Shizuoka Univ.) ○NISHINA, Naoko; SAKAMOTO, Kenkichi; AIHARA, Jun-ichi
- 2D5-11** Singlet Oxygen Generation from Lithium Ion Encapsulated Fullerene Nanoparticles Produced by Laser Pulse Irradiation (Grad. Sch. Eng., Osaka Univ.; ALCA, JST) ○KOHNO, Naoki; OHKUBO, Kei; FUKUZUMI, Shunichi

Chair: OHKUBO, Kei (11 : 00 ~ 11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(2D5-13, 2D5-14, 2D5-15, 2D5-16, 2D5-17)
- 2D5-13** Neighboring Group Participation of Carbon-Nucleophile in Oxida-

- tion by Hypervalent Iodine (Grad. Sch. Mat. Sci., Univ. of Hyogo)
 ○SHIMOGAKI, Mio; FUJITA, Morifumi; SUGIMURA, Takashi
2D5-14 β -Silyl Effect in Electrophilic Aromatic Substitution of 9,9-Dimethyl-9H-silafluorene (Grad. Sch. Eng., Mie Univ.) ○YAMAMURA, Yuki; OKAZAKI, Takao; KITAGAWA, Toshikazu
2D5-15 The mechanism analysis of diastereoselective Mukaiyama aldol reaction of β -substituted aldehydes (Grad. Sch. Integrated Arts Sci., Kochi Univ.) ○NAKATA, Narumi; KANENO, Daisuke
2D5-16 Reactivity and selectivity of the hydroboration of allylic substituted alkenes. (Grad. Sch. Integrated Arts Sci., Kochi Univ.) ○TAKAOKA, Kaname; KANENO, Daisuke
2D5-17 The Reaction Mechanism and Solvent Effect in Diastereoselective Hydride Reduction of α -Substituted Propiophenones (Grad. Sch. Integrated Arts Sci., Kochi Univ.) ○SAIGO, Hikari; TABEL, Masaru; KANENO, Daisuke

Friday, March 27, PM

Chair: NAKATA, Kazuhide (13 : 30~14 : 20)

- * 13:20-13:30: interval for laptop PC connection.(2D5-28, 2D5-29, 2D5-31, 2D5-32)
2D5-28[#] Non-TST behavior of the isomerization reaction rate of dimethylaminobenzene under high pressure : a molecular dynamics study (Ind. Tech. Ctr. Nagasaki) ○SHIGEMITSU, Yasuhiro; OHGA, Yasushi
2D5-29^{*} Theoretical Analysis on the Rearrangement/Fragmentation Reaction of Vinyl Diazonium Ion Derivatives: Dynamic Effect on the Reaction Pathway (Coll. Sci., Rikkyo Univ.) ○SATO, Makoto; YAMATAKA, Hiroshi
2D5-31 Theoretical Study of dynamic effects on the domino reaction (Dept. Eng. Edu. Center, Chiba Inst. of Tech.) ○ITOH, Shuhei
2D5-32 Analysing of the Reactivity on Oxidative Addition Step in Suzuki Reaction with Ligand Free Solvent (Grad. Sch. Eng., Osaka Univ.) ○HIRAKAWA, Teruo; URAMOTO, Yuta

Chair: MAEDA, Satoshi (14 : 30~15 : 10)

- * 14:20-14:30: interval for laptop PC connection.(2D5-34, 2D5-36)
2D5-34^{*} Reaction paths of mechanochemical synthesis for dibenzophenazine (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.; Ecole Nationale Supérieure des Mines d'Albi) SATO, Tohru; ○HARUTA, Naoki; FILHO MARQUES DE OLIVEIRA, Paulo; CHAMAYOU, Alain; TANAKA, Kazuyoshi; BARON, Michel
2D5-36^{*} Construction of Quantitative Structure Activity Relationship Models in Catalytic Asymmetric Reactions by Using L1 Regularization Method (ICR, Kyoto Univ.; Grad. Sch. Sci., Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○YAMAGUCHI, Shigeru; NISHIMURA, Takahiro; SATO, Hirofumi

Chair: KANENO, Daisuke (15 : 20~16 : 00)

- * 15:10-15:20: interval for laptop PC connection.(2D5-39, 2D5-40, 2D5-41, 2D5-42)
2D5-39 Substituent effects on the gas-phase stabilities of phenyl anions (Hosei Univ. SRC; IMCE, Kyushu Univ.) ○NAKATA, Kazuhide; FUJIO, Mizue; TSUNO, Yuho
2D5-40 Theoretical study on the autoxidation mechanism of Et3B/O2 system using GRRM/AFIR method (Sch. Sci., Hokkaido Univ.) ○SAKA, Chihiro; UEMATSU, Ryohei; MAEDA, Satoshi; TAKETSUGU, Tetsuya
2D5-41 Exploration of Hypervalent Compounds by the GRRM Method (Grad. Sch. Sci., Tohoku Univ.; National Institute of Informatics) ○OHNO, Koichi; SATOH, Hiroko; IWAMOTO, Takeaki
2D5-42 Substituent Effect on the Ground State Spin-multiplicity and Molecular Structure in Cyclobutan-1,3-diyliene Dicarbenes. Formation of the Bicyclo[1.1.0]but-1(3)-ene structure (Grad. Sch. Sci., Hiroshima Univ.; IMCE, Kyushu Univ.) ○FUJITA, Yoshiki; ABE, Manabu; SUZUKI, Tatsuya; SHIOTA, Yoshihito; YOSHIZAWA, Kazunari

Saturday, March 28, AM

Chair: NAKAMURA, Yasuyuki (10 : 00~10 : 40)

- * 9:50-10:00: interval for laptop PC connection.(3D5-07, 3D5-09)
3D5-07^{*} Notable substituent effect on unusual emission from cyclopropane derivatives (Fac. Sci., Hiroshima Univ.) KANAHAHARA, Kousei; ○ABE, Manabu
3D5-09^{*} "Excited State C-C Bond Cleavage-Emission" of Biphenyl-Substituted Methylcyclopropanes (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○MATSUI, Yasunori; KIDO, Taiki; OHTA, Eisuke; IKEDA, Hiroshi

Chair: USUI, Satoshi (10 : 50~11 : 30)

- * 10:40-10:50: interval for laptop PC connection.(3D5-12, 3D5-13, 3D5-15)
3D5-12 Generation of 4,4-Dialkoxy-1,2-diazacyclopentane-3,5-diyls and their reactivity (Fac. Sci., Hiroshima Univ.) ○YOSHIDOMI, Shohei; ABE, Manabu
3D5-13^{*} Elucidation of the termination mechanism of radical polymerization of (meth)acrylates (ICR, Kyoto Univ.; CREST, JST) ○NAKAMURA, Yasuyuki; YAMAGO, Shigeru
3D5-15 Solvent cage effect in the selectivity of radical-radical reaction (ICR, Kyoto Univ.; CREST, JST) ○OGIHARA, Tasuku; NAKAMURA,

Room D6

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Organic Chemistry -Reaction and Synthesis-
Organic Electron Transfer Chemistry

Thursday, March 26, PM

Chair: ATOBE, Mahito (12 : 40~13 : 40)

- * 12:30-12:40: interval for laptop PC connection.(1D6-23, 1D6-24, 1D6-25, 1D6-26, 1D6-27, 1D6-28)
1D6-23 Enantioselective flocculation by using optically active thermoresponsive polymer grafted carbon materials (Kinki Univ.) ○KOJO, Asuka; NAKAGAWA, Akinobu; ISHIFUNE, Manabu
1D6-24 Preparation and evaluation of the polymer-modified ITO electrodes having the metalloporphyrin functionalities at their interface (Kinki Univ.) ○IMAOKA, Tetsuya; ISHIFUNE, Manabu
1D6-25 Electrode-surface Modification by Anodic Oxidation of Organotrifluoroborates (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○YAGI, Kenichi; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi; INAGI, Shinsuke
1D6-26 Electrochemical Properties of Tetraazapyrenetetraone (Grad. Sch. Eng., Kyoto Univ.; Panasonic Corp.) ○TSUJII, Yutaka; SHIMIZU, Akihiro; YASO, Yusuke; NOKAMI, Toshiki; INATOMI, Yu; HOJO, Nobuhiko; SUZUKI, Hirotetsu; YOSHIDA, Jun-ichi
1D6-27 Redox-Controlled Dual-Reactivity of Alkyne Catalyzed by Copper Complex and Electrically Selected Modification of Electrode (Grad. Sch. Sci., Hiroshima Univ.) ○KAMAMOTO, Yu; NITTA, Yuya; KUME, Shoko; MIZUTA, Tsutomu
1D6-28 Optimization of the carbohydrate building blocks and reaction conditions for electrochemical automated solution-phase synthesis TMG-Chitotriomycline tetrasaccharide (Grad. Sch. Eng., Tottori Univ.) ○ISODA, Yuta; HAYASE, Shuichi; NOKAMI, Toshiki; ITOH, Toshiyuki

Chair: SHIMIZU, Akihiro (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(1D6-30, 1D6-31, 1D6-32, 1D6-33, 1D6-34, 1D6-35)
1D6-30 Direct C-C forming reaction between aromatic compounds for the convert to biphenyls by cathodic cross-coupling reaction via single electron transfer (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○QU, Yang; ATOBE, Mahito
1D6-31 Regioselectivity of C-S Bond Cleavage in Electrochemical Reduction of Alkyl Phenyl Sulfones (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.; Grad. Fac. Eng., Hokkaido Univ.) SUZUKI, Yuto; MINEMURA, Yoshihito; KATAYAMA, Asahi; ○SENBOKU, Hisanori; HARA, Shoji
1D6-32 Paired electrosynthesis of β -nitroalcohols using benzylalcohols as a starting material (Shibaura Inst. of Tech.) ○MIYAZAKI, Nobuo; YAMADA, Masahiro; TAJIMA, Toshiki
1D6-33 Cathodic Reductions by means of boron-doped diamond electrode (Univ. of Tsukuba International institute for integrative sleep medicine) ○TSUYOSHI, Saitoh; KOJIMA, Taiki; OBATA, Rika; EINAGA, Yasuaki; NISHIYAMA, Shigeru
1D6-34 Pinacol Coupling Reaction Promoted by T/Viologen Electron Transfer System: Effects of Ti Reagents (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KUROBOSHI, Manabu; KATAOKA, Ryukei; YOSHIDA, Masafumi; WATANABE, Yuya; TANAKA, Hideo
1D6-35[#] Electrochemical Formation of Esters and Amides from Trichloromethylated Compounds Catalyzed by B₁₂ Model Complex (Grad. Sch. Eng., Kyushu Univ.) ○LUO, Zhongli; INABA, Takuya; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio

Chair: ISHIFUNE, Manabu (15 : 00~16 : 00)

- * 14:50-15:00: interval for laptop PC connection.(1D6-37, 1D6-38, 1D6-39, 1D6-40, 1D6-41, 1D6-42)
1D6-37 Electroreductive hydrogenation of toluene in cyclic amide solvents (Shibaura Inst. of Tech.) ○NAKAGOME, Sho; SATO, Shintaro; TAJIMA, Toshiki
1D6-38 Electrochemical detection of solvated electrons in cyclic amide solvents (Shibaura Inst. of Tech.) ○MIURA, Suminori; SATO, Shintaro; TAJIMA, Toshiki
1D6-39 Stability of Oxonium Ions Generated by the Indirect Cation Flow Method (Grad. Sch. Eng., Kyoto Univ.) ○MISHIMA, Shota; SHIMIZU, Akihiro; YOSHIDA, Jun-ichi
1D6-40 Observation of Electrogenenerated Thionium Ions and Evaluation of Their Thermal Stability (Grad. Sch. Eng., Kyoto Univ.) ○SHIMIZU, Akihiro; TAKEDA, Keiji; SAITO, Kodai; KIM, Songhee; NOKAMI, Toshiki; YOSHIDA, Jun-ichi
1D6-41 Photocycloaddition Reactions of Dimethylcyclopentane Derivatives toward Synthesis of Macrocycles (Grad. Sch. Eng., Osaka Pref. Univ.;

Osaka Pref. Univ. The Research Institute for Molecular Electronic Devices)
 ○TSUCHIDA, Kanji; KANO, Yusuke; MATSUI, Yasunori; OHTA, Eisuke;
 IKEDA, Hiroshi

- 1D6-42** The invention of a new near-infrared firefly luciferin analog (Sci. Eng., The Univ. of Electro-Communications) ○OTSUKA, Satoshi; KIYAMA, Masahiro; KITADA, Nobuo; SAITO, Ryohei; HIRANO, Takashi; SHOJIRO, Maki

Chair: INAGI, Shinsuke (16 : 10~17 : 10)

* 16:00-16:10: interval for laptop PC connection.(1D6-44, 1D6-45, 1D6-46, 1D6-47, 1D6-48, 1D6-49)

- 1D6-44** Electrochemical Properties of 5,8-Diaza-1,4-naphthoquinone Derivatives (Grad. Sch. Eng., Kyoto Univ.) ○YASO, Yusuke; SHIMIZU, Akihiro; TSUJII, Yutaka; NOKAMI, Toshiki; INATOMI, Yu; HOJO, Nobuhiko; SUZUKI, Hirotsugu; YOSHIDA, Jun-ichi

- 1D6-45** Quinones as Organic Active Materials for Liquid Secondary Batteries (Grad. Sch. Eng., Kyoto Univ.) ○TAKENAKA, Keisuke; SHIMIZU, Akihiro; YOSHIDA, Jun-ichi

- 1D6-46** Synthesis of Anthradithionenedione by a Double Friedel-Crafts Acylation and Their Electrochemical Properties (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○MURAKAMI, Takashi; MITSUDO, Koichi; SUGA, Seiji

- 1D6-47** Preparation and properties of cationic compound with guaiazulenyl group (Kinki Univ.) ○YAMAMOTO, Yoshihiko; ISHIFUNE, Manabu; TAKEKUMA, Shin-ichi

- 1D6-48** Spectroscopic and electrochemical properties of azulenes having tricyanovinyl and dicyanovinyl groups (Kinki Univ.) ○TSUKAMOTO, Naoya; ISHIFUNE, Manabu; TAKEKUMA, Shin-ichi

- 1D6-49** Electroreductive synthesis of block type polysilanes having oligoether side chains as hydrophilic functionalities (Fac. Sci. Eng., Kinki Univ.) ○UEMINAMI, Ryota; ISHIFUNE, Manabu

Friday, March 27, AM

Chair: MAEKAWA, Hirofumi (9 : 30 ~ 10 : 20)

* 9:20-9:30: interval for laptop PC connection.(2D6-04, 2D6-05, 2D6-06, 2D6-07, 2D6-08)

- 2D6-04** Synthesis of π -Conjugated Polymer Thin Films by Electropolymerization of Dithienylphosphole Derivatives via Titanacycle Intermediates (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○KANETAKA, Hidenari; NISHIYAMA, Hiroki; INAGI, Shinsuke; TOMITA, Ikuyoshi

- 2D6-05** Fabrication of conductive polymer fiber networks by means of bipolar electrochemistry (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○KOIZUMI, Yuki; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi; INAGI, Shinsuke

- 2D6-06** Development of electropolymerization method using neat monomer solution and its application for the solid-type dye sensitized solar cell (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○TANAKA, Eisaku; NAKABAYASHI, Koji; ATOBE, Mahito

- 2D6-07** Electrosynthesis of polyphenylene films in HFIP and their luminescence properties (Shibaura Inst. of Tech.) ○ANDO, Takumi; TAJIMA, Toshiki

- 2D6-08** Synthesis of condensed polycyclic compounds having an acenaphthylene frame (Grad. Sch. Eng., Univ. of Hyogo) ○MATSUURA, Kazuma; NISHIDA, Jun-ichi; KAWASE, Takeshi

Chair: MITSUDO, Koichi (10 : 30~11 : 20)

* 10:20-10:30: interval for laptop PC connection.(2D6-10, 2D6-11, 2D6-13)

- 2D6-10** Mg-Promoted Reductive Trifluoroacetylation of Aromatic Conjugated Esters (Nagaoka Univ. of Tech.) ABE, Mitsuhiro; SHIMIZU, Kazuyuki; ○MAEKAWA, Hirofumi

- 2D6-11** Electrochemical fixation of CO₂ to organohalides in room-temperature ionic liquids under supercritical CO₂ circumstances (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○TATENO, Hiroyuki; NAKABAYASHI, Koji; SENBOKU, Hisanori; ATOBE, Mahito

- 2D6-13** Mg-Promoted Reductive Acylation of Aromatic Conjugated Ynones Accompanying with Transposition of the Triple Bond (Nagaoka Univ. of Tech.) ○ZHANG, Tianyuan; NISHIYAMA, Yutarō; MAEKAWA, Hirofumi

Chair: TAJIMA, Toshiki (11 : 30~12 : 20)

* 11:20-11:30: interval for laptop PC connection.(2D6-16, 2D6-17, 2D6-18, 2D6-19, 2D6-20)

- 2D6-16** Electrochemical Generation and Accumulation of Halogen and Chalcogen Cations Stabilized by Triflate and Their Reactions with Alkynes (Sch. Eng., Kyoto Univ.) ○HORIUCHI, Shun; HAYASHI, Ryutarō; SHIMIZU, Akihiro; YOSHIDA, Jun-ichi

- 2D6-17** Electrochemical Benzylic C-H Amination via Aminosulfonium Ions (Kyoto Univ. Graduate School of Engineering) ○HAYASHI, Ryutarō; ASHIKARI, Yosuke; NOKAMI, Toshiki; SHIMIZU, Akihiro; YOSHIDA, Jun-ichi

- 2D6-18** Mukaiyama Aldol Reaction promoted by the electrochemically generated organo-dications (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○FUJIWARA, Ikumi; KURIHARA, Yusuke; MITSUDO, Koichi; SUGA, Seiji

- 2D6-19** Synthesis of azodicarboxylate derivatives with urea as a nitrogen source. Hofmann-type rearrangement with [Br⁺]/DBU (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○MURAKAMI, Masaki; KUROBOSHI, Manabu; HAYASHI, Yuki; SHIBASAKI, Kota; TANAKA, Hideo; KAWAKUBO, Hiromu

- 2D6-20** Synthesis of Fluorinated Tetrahydropyrans via Prins Cyclization Using Electrochemical Oxidation (Fac. Sci. Eng., Kinki Univ.) ○MATSUMOTO, Kouichi; YAMAGUCHI, Koji; MIYASAKA, Keita; HAGA, Fumi; NISHIWAKI, Keiji; KASHIMURA, Shigenori

Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis

Friday, March 27, PM

Chair: OHUCHI, Shokichi (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2D6-28, 2D6-29, 2D6-30, 2D6-31, 2D6-32, 2D6-33)

- 2D6-28** Design, Synthesis and Evaluation of DA' π A Near-IR Absorbing Organic Dyes (Grad. Sch. Sci., Eng., Tokyo Tech; Grad. Sch. Life Sci. Sys. Eng., KIT; Kanto Natural Gas Development Co., Ltd.; Yokohama Coll. of Pharmacy) ○IRIE, Shunsuke; FUSE, Shinichiro; MAITANI, Masato; WADA, Yuji; OGOMI, Yuhei; HAYASE, Shuji; KAIHO, Tatsuo; MASUI, Hisashi; TANAKA, Hiroshi; TAKAHASHI, Takashi

- 2D6-29** The Synthesis of Functional Dyes via 4-component Coupling Reaction and Their Evaluation of Inhibitory Activity against the Aggregation of Amyloid β and tau Proteins (Grad. Sch. Sci., Eng., Tokyo Tech; Doshisha Univ. Graduate School of Brain Science; Yokohama Coll. of Pharmacy) ○MATSUMURA, Keisuke; FUSE, Shinichiro; FUJITA, Yuki; SUGIMOTO, Hachiro; TAKAHASHI, Takashi

- 2D6-30** Exploration of Novel Peptide Catalysts by a Large-Scale Library Screening. (IIS, The Univ. of Tokyo) ○SATOU, Junichi; AKAGAWA, Kengo; KUDO, Kazuaki

- 2D6-31** An improved synthesis of donor- π -accepter dyes based on C-H direct arylation (Grad. Sch. Sci., Eng., Tokyo Tech) FUSE, Shinichiro; ○YOSHIZAKI, Soichi; TANAKA, Hiroshi

- 2D6-32** Improved Regioselective Synthesis of Trisubstituted Pyrazoles via One-pot [3+2] Cycloaddition Reaction (Grad. Sch. Sci., Eng., Tokyo Tech) FUSE, Shinichiro; ○SUGIYAMA, Hirotaka; KOBAYASHI, Daisuke; TANAKA, Hiroshi

- 2D6-33** Rapid synthesis of tetra-aryl-substituted pyrazoles via sequential N-H and C-H direct arylations (Grad. Sch. Sci., Eng., Tokyo Tech) FUSE, Shinichiro; ○MORITA, Taiki; TANAKA, Hiroshi

Chair: AMII, Hideki (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(2D6-35, 2D6-36, 2D6-37, 2D6-39)

- 2D6-35** Space Integration of Lithiation, Borylation, and Suzuki-Miyaura Coupling (Grad. Sch. Eng., Kyoto Univ.) ○MORIWAKI, Yuya; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

- 2D6-36** Halogen-Lithium Exchange of Perfluorinated Haloalkenes Using Flow Microreactors (Grad. Sch. Eng., Kyoto Univ.) ○AKAHORI, Kana; HIROSE, Katsuyuki; TOKUOKA, Shin-ya; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

- 2D6-37** Molecular Mechanism of Microwave Organic Reaction Estimated from Reaction Conditions (Fac. CSSE., KIT) UCHIIHRO, Keita; IWAHASHI, Nobuyuki; ○OHUCHI, Shokichi

- 2D6-39** Flow Type Microwave Chemical Reactor for Production Use (J-SCIENCE LAB Co.,Ltd) ○KOYAMA, Yuji

Chair: FUKUYAMA, Takahide (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2D6-42, 2D6-43, 2D6-44, 2D6-45, 2D6-47)

- 2D6-42** An Amphiphilic Self-Assembled Polymeric Palladium Catalyst MPPI-Pd: Mizoroki-Heck Reaction and Structural Analysis (RIKEN CSRS, Green Nanocatalysis Research Team) ○SATO, Takuma; OHNO, Aya; SHAHEEN, Sarkar; YAMADA, Yoichi M. A.; UOZUMI, Yasuhiro

- 2D6-43** Development of Self-Assembled Polymeric Imidazole Ni Catalysts and Their Application to Cross-coupling Reactions (RIKEN CSRS, Green Nanocatalysis Research Team) ○ISHII, Rikako; OHNO, Aya; YAMADA, Yoichi M. A.; UOZUMI, Yasuhiro

- 2D6-44** Suzuki-Miyaura Reaction in Water Using Self-Assembled Polymeric Pyridine-Palladium Catalysts (RIKEN CSRS, Green Nanocatalysis Research Team) ○OHNO, Aya; SATO, Takuma; YAMADA, Yoichi M. A.; UOZUMI, Yasuhiro

- 2D6-45** Multi-step Continuous Flow Synthesis of Optically Active Rolipram (Grad. Sch. Sci., The Univ. of Tokyo) ○TSUBOGO, Tetsu; OYAMADA, Hidekazu; KOBAYASHI, Shu

- 2D6-47** Efficient Continuous Flow Synthesis of Nitroalkenes (Grad. Sch. Sci., The Univ. of Tokyo) Tsubogo, Tetsu; ○MORII, Yasuhiro; FURIYA, Yuichi; OYAMADA, Hidekazu; KOBAYASHI, Shu

Chair: UENO, Masaharu (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(2D6-49, 2D6-51, 2D6-52, 2D6-53, 2D6-54)

- 2D6-49*** Synthesis of allyl-type heavy fluorine tag and its application for oligosaccharide synthesis (Grad. Sch. Adv. Integration Sci., Chiba Univ.; The Noguchi Institute) ○FUKUDA, Kazuo; TOJINO, Mami; GOTO, Kohtarō; DOHI, Hirofumi; NISHIDA, Yoshihiro; MIZUNO, Mamoru
- 2D6-51** Ring Opening Oligomerization of Ethylene Oxide Using Continuous Micro Flow System (Grad. Sch. Sci., Osaka Pref. Univ.) ○FURUTA, Akihiro; FUKUYAMA, Takahide; OKADA, Kazuhisa; RYU, Ilhyong
- 2D6-52** Controlled Nucleophilic Aromatic Substitution Using a Flow Microreactor (Grad. Sch. Sci. Tech., Gunma Univ.) AMII, Hideki; MURATA, Hiroyuki; ○TAKANO, Aya
- 2D6-53*** Oxidative Coupling of Terminal Alkynes with a Polymer-Supported Copper Catalyst (SOKENDAI; Institute for Molecular Science) ○YAN, Shuo; PAN, Shiguang; OSAKO, Takao; UOZUMI, Yasuhiro
- 2D6-54*** Transesterification of Various Alcohols and Esters Using a Porous Phenol Sulfonic Acid-Formaldehyde Resin Catalyst (RIKEN CSRS Green Nanocatalysis Research Team) ○BAEK, Heeyoel; MINAKAWA, Maki; YAMADA, Yoichi M. A.; HAN, Jin Wook; UOZUMI, Yasuhiro

Saturday, March 28, AM

Chair: FUSE, Shinichiro (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3D6-01, 3D6-02, 3D6-03, 3D6-04, 3D6-05, 3D6-06)
- 3D6-01** Analysis of Fast Organolithium Reactions Using Flow Microreactors. (Sch. Eng., Kyoto Univ.) ○KAJITA, Shunpei; ISHUCHI, Satoshi; MORIWAKI, Yuya; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 3D6-02** Studies on Stability of Perfluoroalkyllithiums Using Flow Microreactor Systems (Sch. Eng., Kyoto Univ.) ○HIROSE, Katsuyuki; AKAHORI, Kana; TOKUOKA, Shinnya; TAKAHASHI, Yusuke; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 3D6-03*** Hydrogenation of aromatic compounds using continuous flow system with polysilane supported rhodium/platinum nanoparticles. (Grad. Sch. Sci., The Univ. of Tokyo) ○TAMMINANA, Ramana; MIYAMURA, Hiroyuki; YASUKAWA, Tomohiro; KOBAYASHI, Shu
- 3D6-04*** Polymer-Supported Phase Transfer Catalyst for Asymmetric Michael Reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○MIGUELEZ, Javier; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 3D6-05** Flow Cationic Polymerization Initiated by Dendritic Cations (Grad. Sch. Eng., Kyoto Univ.) ○TAKUMI, Masahiro; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 3D6-06** Flow Generation and Reactions of Benzylolithiums Bearing Formyl Group (Grad. Sch. Eng., Kyoto Univ.) ○TSUCHIHASHI, Yuta; HARAOKI, Suguru; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

Chair: ARAKAWA, Yukihiro (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3D6-08, 3D6-09, 3D6-10, 3D6-12)
- 3D6-08** A facile preparation of α -aryl carboxylic acid via one-flow Arndt-Eistert synthesis (Grad. Sch. Sci., Eng., Tokyo Tech) FUSE, Shinichiro; ○OTAKE, Yuma; MIFUNE, Yuto; TANAKA, Hiroshi
- 3D6-09** Synthetic study of feglymycin based on microflow amide bond formation (Grad. Sch. Sci., Eng., Tokyo Tech) ○MIFUNE, Yuto; FUSE, Shinichiro; TANAKA, Hiroshi
- 3D6-10*** Flow Generation and Reactions of Carbamoyllithiums (Grad. Sch. Eng., Kyoto Univ.) ○TAKAHASHI, Yusuke; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 3D6-12*** Deprotonation of Optically Active Benzyl Carbamates Using Flow Microreactors (Grad. Sch. Eng., Kyoto Univ.) ○MORIWAKI, Yuya; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

Chair: MANABE, Yoshiyuki (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3D6-15, 3D6-17, 3D6-18, 3D6-19, 3D6-20)
- 3D6-15**** New potential of metal nanoparticle catalysts - reaction integrations and synergistic catalysis - (Grad. Sch. Sci., The Univ. of Tokyo) ○MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 3D6-17*** Selective amide formation from alcohol/aldehyde using medium size of polymer immobilized gold nanoparticles via aerobic oxidation (Grad. Sch. Sci., The Univ. of Tokyo) ○MIN, Hyemin; MIYAMURA, Hiroyuki; SOULE, Jean-francois; KOBAYASHI, Shu
- 3D6-18*** Integration of aerobic oxidation reactions of alcohols and unsaturated bond formation reactions catalyzed by polymer-incarcerated metal nanoparticle catalysts (Grad. Sch. Sci., The Univ. of Tokyo) ○SUZUKI, Aya; MIYAMURA, Hiroyuki; YASUKAWA, Tomohiro; KOBAYASHI, Shu
- 3D6-19** Effect of Methanol on the Microwave Assisted Suzuki-Miyaura Coupling Reaction in a Continuous Flow System (Grad. Sch. Sci., Osaka Pref. Univ.) ○KANAZAWA, Akira; SATO, Masaaki
- 3D6-20** Nucleophilic Addition to Nitrones Using Flow Microreactors (The Univ. of Tokushima) ○UETA, Shun; ARAKAWA, Yukihiro; MINAGAWA, Keiji; IMADA, Yasushi

Saturday, March 28, PM

Chair: YAMADA, Yoichi (13 : 30 ~ 14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3D6-28, 3D6-30, 3D6-31,

3D6-32, 3D6-33)

- 3D6-28**** Development of heterogeneous chiral bifunctional Rh nanoparticle catalytic systems (Grad. Sch. Sci., The Univ. of Tokyo) ○YASUKAWA, Tomohiro; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 3D6-30** Chiral Metal Nanoparticle Catalyzed Asymmetric 1,4-Addition of Aryl Boronic Acids to α, β -Unsaturated Amides (Grad. Sch. Sci., The Univ. of Tokyo) YASUKAWA, Tomohiro; ○SAITO, Yuuki; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 3D6-31** Development of Chiral Rh Nanoparticle Catalyzed Asymmetric 1,4-Addition of Aryl Boronic Acids to Nitro Olefins (Grad. Sch. Sci., The Univ. of Tokyo) ○NISHINO, Kohei; YASUKAWA, Tomohiro; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 3D6-32** Dehydration of Alcohols in a Flow System Using Sulfonic Acid Functionalized Silica-gel: Application to the Synthesis of Pristane (Osaka Pref. Univ. Graduate School of Science) FURUTA, Akihiro; ○HIROBE, Yuki; FUKUYAMA, Takahide; RYU, Ilhyong; MANABE, Yoshiyuki; FUKASE, Koichi
- 3D6-33** Fischer glycosylation using silica gel supported sulfuric acid under fluidic conditions (Grad. Sch. Sci., Osaka Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) ○MASUI, Seiji; MANABE, Yoshiyuki; SHIMOYAMA, Atsushi; FUKUYAMA, Takahide; RYU, Ilhyong; FUKASE, Koichi

Chair: OSAKO, Takao (14 : 40 ~ 15 : 20)

- * 14:30-14:40: interval for laptop PC connection.(3D6-35, 3D6-36, 3D6-37)
- 3D6-35*** Synergistic cascade catalysis by metal nanoparticles and Lewis acids in hydrogen autotransfer (Grad. Sch. Sci., The Univ. of Tokyo) ○MIYAMURA, Hiroyuki; CHOO, Chong Yu Gerald; KOBAYASHI, Shu
- 3D6-36*** Alkylation of primary amides through hydrogen autotransfer process using cooperative catalytic system of metal nanoparticles and metal complexes (Grad. Sch. Sci., The Univ. of Tokyo) ○HAYRAPETYAN, Davit; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 3D6-37**** Highly Efficient Organic Photoreaction in Specific Reaction Field using Flow Microreactor (Grad. Sch. Mat. Sci., NAIST) ○NISHIYAMA, Yasuhiro; MORI, Ryota; TERAOKA, Kimitada; KAKIUCHI, Kiyomi

Chair: NISHIYAMA, Yasuhiro (15 : 30 ~ 16 : 00)

- * 15:20-15:30: interval for laptop PC connection.(3D6-40, 3D6-41, 3D6-42)
- 3D6-40** Three-Component Coupling Based on Carbolithiation of Benzene by Space Integration of Reactions (Sch. Eng., Kyoto Univ.) ○KITAMURA, Takaaki; ICHINARI, Daisuke; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 3D6-41** Selectivity Control Using Flow Microreactors. Reactions of Organolithiums with Difunctional Electrophiles (Grad. Sch. Eng., Kyoto Univ.) ○ISHIUCHI, Satoshi; IMAI, Keita; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 3D6-42** Continuous Flow Synthesis of Primary Amines from Nitriles Using Polysilane-Alumina Supported Palladium-Catalyzed Hydrogenation (Grad. Sch. Sci., The Univ. of Tokyo) ○UENO, Masaharu; MORII, Yasuharu; OYAMADA, Hidekazu; KOBAYASHI, Shu

Room E1

Bldg.10 1031

Organic Chemistry -Reaction and Synthesis-
Aliphatic and Alicyclic Compounds

Thursday, March 26, AM

Chair: NAGANAWA, Yuki (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1E1-01, 1E1-02, 1E1-03, 1E1-04, 1E1-05, 1E1-06)
- 1E1-01** New Synthetic Approach to Allylboronates Utilizing Boryl Anion Equivalent (Grad. Sch. Pharm., The Univ. of Tokyo) ○HARADA, Kohei; HIRANO, Keiichi; UCHIYAMA, Masanobu
- 1E1-02** Enantioselective Addition of Vinylaluminum Reagents to Aldehydes Catalyzed by Chiral Aluminum Complex (KIT) ○MATSUNAGA, Takuya; ADATE, Priyanka; HARADA, Toshiro
- 1E1-03** Transesterification in the Presence of Zincate Complex under Mild Conditions (The Univ. of Tokushima) ○ODA, Yuki; OSHIMURA, Miyuki; HIRANO, Tomohiro; UTE, Koichi
- 1E1-04** Development of Transition Metal Lewis Acid/metal Amide Hybrid Catalysts and Their Application for Carbon-Carbon Bond Forming Reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○SAITO, Yuki; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 1E1-05** Development of Zinc Lewis Acid/Metal Amide Hybrid Catalysts (Grad. Sch. Sci., The Univ. of Tokyo) YAMASHITA, Yasuhiro; ○MINAMI, Kodai; SAITO, Yuki; KOBAYASHI, Shu
- 1E1-06*** Development of Catalytic Asymmetric Endo-selective [3+2] Cycloaddition Reactions of Schiff Bases of α -Aminophosphonates Using Chiral Silver Amide. (Grad. Sch. Sci., The Univ. of Tokyo) ○DUTTON, Mark; NAM, Liang-cheng; YOSHIMOTO, Susumu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

Chair: FUKUYAMA, Takahide (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1E1-08, 1E1-09, 1E1-10, 1E1-11, 1E1-12, 1E1-13)
- 1E1-08** Practical Enantioselective Arylation of Aldehydes with Aryltitanium Reagents Catalyzed by Highly Active Chiral Titanium Complexes (KIT)
○YAMAMURA, Nobuaki; HARADA, Toshiro
- 1E1-09** Catalytic asymmetric halocyclization using chiral aminosalicylaldehyde-copper complex (Grad. Sch. Sci., Chiba Univ.) ○WATANABE, Ohji; ARAI, Takayoshi
- 1E1-10** Cu-catalyzed enantioselective direct hydroxylation of oxindoles with chiral phenanthroline ligand (Grad. Sch. Eng., Nagoya Univ.) ○AOYAMA, Tomotaka; NAGANAWA, Yuki; NISHIYAMA, Hisao
- 1E1-11** Ni-catalyzed enantioselective conjugate addition of oxindoles with chiral phenanthroline ligand (Grad. Sch. Eng., Nagoya Univ.) ○ABE, Hiroki; NAGANAWA, Yuki; NISHIYAMA, Hisao
- 1E1-12** Cobalt-catalyzed addition of simple alkenes to aldimines (Grad. Sch. Pharm., The Univ. of Tokyo) ○KANEKO, Keiichi; MATSUNAGA, Shigeki; KANAI, Motomu
- 1E1-13** Enantioselective Catalysis by the Optically Active 1-Chlorovinyl Cobalt(III) Complex (Fac. Sci. Tech., Keio Univ.) ○Tsubo, Tatsuyuki; YAMADA, Tohru

Chair: YAMASHITA, Yasuhiro (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1E1-15, 1E1-16, 1E1-17, 1E1-18, 1E1-19, 1E1-20)
- 1E1-15** Cobalt-Catalyzed Reductive Carboxylation on α,β -Unsaturated Compounds with Carbon Dioxide (Fac. Sci. Tech., Keio Univ.)
○HAYASHI, Chika; YAMADA, Tohru
- 1E1-16** Cobalt-Salen Complex Catalyzed Preparation of Alkyl Iodides from Aldehydes via Oxidative Deformylation (Sch. Sci., Tokyo Tech)
○SUMIYAMA, Keiichi; SOGO, Hideyuki; IWASAWA, Nobuharu
- 1E1-17** Silver-Catalyzed Tandem Incorporations of Carbon Dioxide and Iodo Group into Alkyne Derivatives (Fac. Sci. Tech., Keio Univ.)
○KOBAYASHI, Ryo; SEKINE, Kohei; YAMADA, Tohru
- 1E1-18** Photocatalyzed Site-Selective C-H/C-C Conversion of Aliphatic Nitriles (Grad. Sch. Sci., Osaka Pref. Univ.) ○YAMADA, Keiichi; OKADA, Megumi; FUKUYAMA, Takahide; RYU, Ilhyong
- 1E1-19** One-pot Synthesis of 4-Butenyl Ketones Using Norrish Type I Reaction of Cyclopentanones as a Key (Grad. Sch. Sci., Osaka Pref. Univ.) ○OKADA, Megumi; FUKUYAMA, Takahide; RYU, Ilhyong
- 1E1-20** Four-Component Cascade Reaction of Xanthogates, Alkenes, CO, and Sulfonyl Oxime Ethers (Grad. Sch. Sci., Osaka Pref. Univ.; University of Bordeaux 1 Institute of Molecular Science) SUMINO, Shuhei; FUKUYAMA, Takahide; ○SASANO, Mika; RYU, Ilhyong; JACQUET, Antoine; ROBERT, Frédéric; LANDAIS, Yannick

Thursday, March 26, PM

Chair: SAITO, Susumu (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1E1-28, 1E1-29, 1E1-31, 1E1-32, 1E1-33)
- 1E1-28[#]** Efficient Silyl Protection of Terminal Alkynes with Nanoporous Gold Catalyst (WPI-AIMR, Tohoku Univ.) ○KUSUMA, Indra; ASAO, Naoki
- 1E1-29[#]** Effective Formylation of Amines with Carbon Dioxide and Silane at Room Temperature Catalyzed by Novel Chelating Bis-tzNHC Rhodium and Iridium Complexes (Grad. Sch. Sci., The Univ. of Tokyo) ○NGUYEN Thanh V.Q.; YOO, Woo-Jin; KOBAYASHI, Shu
- 1E1-31** Rh and Ir-catalyzed enantioselective desymmetrization of hydrosilane (Grad. Sch. Eng., Nagoya Univ.) ○NAMBA, Tomoya; KAWAGISHI, Mayu; NAGANAWA, Yuki; NISHIYAMA, Hisao
- 1E1-32** Development of A Chiral Bis(imidazolidine)-derived NCN-type Pincer Rhodium Complex for Asymmetric Catalysis (Grad. Sch. Sci., Chiba Univ.)
○MORIBATAKE, Takuma; ARAI, Takayoshi
- 1E1-33** Switching Site-Selectivity of Tandem Enyne Metathesis by Hydrogen-Bonding Interaction between a Substrate and a Catalyst (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○KOBAYAKAWA, Yuki; UNO, Toru; IRIZUMI, Mitsuyasu; KURIHARA, Seiji; TAKAHATA, Hiroki; IMAHORI, Tatsushi

Chair: IMAHORI, Tatsushi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1E1-35, 1E1-36, 1E1-37, 1E1-38, 1E1-39)
- 1E1-35[#]** Development of asymmetric Mukaiyama aldol reactions without use of any organic solvent (Grad. Sch. Sci., The Univ. of Tokyo) ○ZHU, Lei; KITANOSONO, Taku; KOBAYASHI, Shu
- 1E1-36** Development of new surfactant-combined catalyst using transition metals (Grad. Sch. Sci., The Univ. of Tokyo) KITANOSONO, Taku; ○MIYO, Masumi; KOBAYASHI, Shu
- 1E1-37** Development of multifunctional ligands bearing 2,2'-bipyridine skeleton toward efficient catalysis in water (Grad. Sch. Sci., The Univ. of Tokyo) KITANOSONO, Taku; ○OZEKI, Yoshiaki; UENO, Masaharu; KOBAYASHI, Shu
- 1E1-38[#]** Hydrogenation of Carboxylic Acids Catalyzed by High-valent Rhenium Complexes (Grad. Sch. Sci., Nagoya Univ.) ○TODA, Katsuaki; AGRAWAL, Santosh; NARUTO, Masayuki; NOYORI, Ryoji; SAITO,

Susumu

- 1E1-39[#]** Multifaceted catalytic hydrogenation of amides via diverse activation of a molecular surface as precatalyst (Grad. Sch. Sci., Nagoya Univ.)
○MIURA, Takashi; NARUTO, Masayuki; TODA, Katsuaki; NOYORI, Ryoji; SAITO, Susumu

Chair: UENO, Masaharu (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1E1-42, 1E1-43, 1E1-45, 1E1-46)
- 1E1-42** Asymmetric Cyanation of α -Imino Esters with the Chiral Ru/Li Combined Catalysts (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.)
○SUZUKI, Kazuaki; SAKAGUCHI, Yusuke; NITTA, Rino; KURONO, Nobuhito; OHKUMA, Takeshi
- 1E1-43[#]** Ruthenium-carboxylate Catalyzed Self-induced Hydrogenation of Carboxylic Acids (Grad. Sch. Sci., Nagoya Univ.) ○NARUTO, Masayuki; NOYORI, Ryoji; SAITO, Susumu
- 1E1-45** Asymmetric Cyanosilylation of Alkynyl Ketones with the Chiral Ru/Li Combined Catalysts (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.)
○YAMAUCHI, Kohei; SAKAGUCHI, Yusuke; KURONO, Nobuhito; OHKUMA, Takeshi
- 1E1-46[#]** Hydration of nitriles to amides by a chitin-supported ruthenium catalyst: scope and selectivity (Grad. Sch. Sci., Nagoya Univ.)
○MATSUOKA, Aki; ISOGAWA, Takahiro; MORIOKA, Yuna; KNAPPETT, Benjamin, R.; WHEATLEY, Andrew, E. H.; NOYORI, Ryoji; SAITO, Susumu; NAKA, Hiroshi

Chair: HATANO, Manabu (17 : 00~17 : 50)

- * 16:50-17:00: interval for laptop PC connection.(1E1-49, 1E1-51, 1E1-52, 1E1-53)
- 1E1-49^{*}** Synthesis of α -aminocarbonyl compounds via hetero-Diels-Alder reaction (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○SAKURAI, Masayoshi; KIHARA, Nobuhiro
- 1E1-51** Chiral phosphoric acid-catalyzed asymmetric desymmetric Diels-Alder reaction of dienone (Grad. Sch. Sci., Hiroshima Univ.) ○TAKAGI, Ryukichi; NISHI, Takehiko
- 1E1-52** Synthesis of main-chain polymers of MacMillan catalyst and its application to asymmetric organocatalysis (Toyohashi Univ. of Tech. Toyohashi Univ. of Tech.) ○ONAMI, Tatsuaki; HARAGUCHI, Naoki; ITSUNO, Shinichi
- 1E1-53** [4+2] Cycloaddition of Aldehyde with Diene (Grad. Sch. Eng., Kyoto Univ.) ○TOMIFUJI, Rei; KURAHASHI, Takuya; MATSUBARA, Seiji

Chair: HARAGUCHI, Naoki (18 : 00~18 : 30)

- * 17:50-18:00: interval for laptop PC connection.(1E1-55, 1E1-57)
- 1E1-55^{*}** Asymmetric Cycloaddition Reactions Induced by Chiral π -Cation Catalysts (Grad. Sch. Eng., Nagoya Univ.; Grad. Sch. Nat. Sci. Technol., Okayama Univ.; CREST, JST) ○HORI, Masahiro; SAKAKURA, Akira; ISHIIHARA, Kazuaki
- 1E1-57** Design of Trityl Cation Catalysts for Diels-Alder Reaction (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○HAYASHI, Kazushige; HATANO, Manabu; ISHIIHARA, Kazuaki

Friday, March 27, AM

Chair: KAWASAKI, Tsunemi (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2E1-01, 2E1-03, 2E1-04, 2E1-06)
- 2E1-01^{*}** Regio- and Stereoselective Alkyl Addition to α -Imino Esters with Grignard Reagent-Derived Zinc(II) Ate Complexes (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○YAMASHITA, Kenji; MIZUNO, Mai; HATANO, Manabu; ISHIIHARA, Kazuaki
- 2E1-03** Highly Regioselective 1,4-Addition to Poly-Conjugated Esters with Grignard Reagent-Derived Zinc(II) Ate Complexes (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○MIZUNO, Mai; HATANO, Manabu; ISHIIHARA, Kazuaki
- 2E1-04[#]** Analytical Study of C-C Bond Forming Reactions in Water Using Real-time Reaction Monitoring Method with Mass Spectrometry (Grad. Sch. Sci., The Univ. of Tokyo) ○MASUDA, Koichiro; KOBAYASHI, Shu
- 2E1-06** Research on Indium(0) Metal Catalyzed Allylation Reactions in Water (Grad. Sch. Sci., The Univ. of Tokyo) MASUDA, Koichiro; ○FUSHIMI, Seiya; KOBAYASHI, Shu

Chair: SATO, Takaaki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2E1-08, 2E1-09, 2E1-10, 2E1-11, 2E1-12, 2E1-13)
- 2E1-08** Asymmetric Synthesis Using Enantiotopic Faces in Achiral Crystal of Pyrimidine Carbaldehyde (Fac. Sci., Tokyo Univ. of Sci.; Grad. Sch. Eng., Univ. of Fukui) ○FUJIWARA, Satoshi; HIYOSHI, Yui; SHIMA, Ryosuke; KAWASAKI, Tsunemi; MATSUMOTO, Arimasa; SOAI, Kenso
- 2E1-09** Crystal Structure of Benzophenone Derivatives and Asymmetric Autocatalysis Initiated by Their Crystal Chirality (Fac. Sci., Tokyo Univ. of Sci.) ○TSUCHIYA, Sumeru; KINO, Yoshimi; YOSHIOKA, Tokio; OMORI, Haruna; MATSUMOTO, Arimasa; SOAI, Kenso
- 2E1-10** Synthesis of Hydrogen/Deuterium Isotopically Chiral Alcohols (Fac.

Sci., Tokyo Univ. of Sci.) OHARADA, Shunya; OZAKI, Hanae; TADA, Kyouhei; MATSUMOTO, Arimasa; SOAI, Kenso

2E1-11 Synthesis of Polyfunctionalized Alkene Using the Chemical Property of a Nitro Group. (Sch. Env. Sci. Eng., KUT) OSOFUE, Ayano; ASAHARA, Haruyasu; NISHIWAKI, Nagatoshi

2E1-12 Multinuclear Zinc Bisamidinate Catalyzed Asymmetric Addition of Et₂Zn to α -Ketoesters (Coll. Sci., Rikkyo Univ.) ODOKI, Shotaro; YAMANAKA, Masahiro

2E1-13[#] N-Methylation of amines with methanol at room temperature (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.; Fac. Sci., Tokyo Univ. of Sci.; Inst. Adv. Res., Nagoya Univ.; ACT-C, JST) OMORIOKA, Yuna; TSAREV, Vasily; CANER, Joaquim; WANG, Qing; USHIMARU, Richiro; KUDO, Akihiko; NOYORI, Ryoji; NAKA, Hiroshi; SAITO, Susumu

Chair: HATANO, Manabu (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2E1-15, 2E1-16, 2E1-17, 2E1-18, 2E1-19, 2E1-20)

2E1-15 Development of the nitrene synthesis method using a nucleophilic addition reaction to N-siloxyamide (Grad. Sch. Sci. Tech., Keio Univ.) OFUJITA, Kanami; KATAHARA, Seiya; KOBAYASHI, Shoichiro; SATO, Takaaki; CHIDA, Noritaka

2E1-16 Chemoselective Nucleophilic Addition to tertiary Amides, secondary Amides and N-methoxyamides (Fac. Sci. Tech., Keio Univ.) ONAKAJIMA, Minami; ODA, Yukiko; WADA, Takamasa; MINAMIKAWA, Ryo; SHIROKANE, Kenji; SATO, Takaaki; CHIDA, Noritaka

2E1-17 Asymmetric Autocatalysis Initiated by Chiral Crystal of Ninhydrin (Fac. Sci., Tokyo Univ. of Sci.) ONAKAJIMA, Tsuyoshi; KUROSAKI, Shiori; MATSUMOTO, Arimasa; SOAI, Kenso

2E1-18 Tandem N-Alkylation/Selective Cross Coupling Reaction of α -Aldimino Thioesters with α -Aldimino Ester (Grad. Sch. Eng., Mie Univ.) ONAKAJIMA, Yuji; MIZOTA, Isao; SHIMIZU, Makoto

2E1-19 Studies and development of new remote asymmetric induction type alkylation (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) OKUBOTA, Kei; HOSOKAWA, Seijiro; NAKAMURA, Tatsuya

2E1-20 Development of a new Julia-type methylenation reagent (Gifu Univ.) OKOBAYASHI, Takahisa; UCHIDA, Nariaki; ANDO, Kaori

Asian International Symposium -Organic Chemistry/Green Chemistry-

Friday, March 27, PM

(13 : 00~13 : 10)

2E1-25[#] Opening Remarks (Osaka Prefecture Univ.) Ryu, Ilhyong (13:00~13:10)

Chair: AKIYAMA, Takahiko (13 : 10~14 : 30)

2E1-26[#] Keynote Lecture C-F...H-X interactions, A Useful Tool or Trouble-maker? (East China Normal Univ.) Zhou, Jian (13:10~13:40)

2E1-29[#] Invited Lecture Catalytic Transformations of *O*-Propargylic Oxime (Tohoku Univ.) Nakamura, Itaru (13:40~14:00)

2E1-31[#] Keynote Lecture Visible Light Photoredox Catalysis: Perfluoroalkylations (Hanyang Univ.) Cho, Eun Jin (14:00~14:30)

Chair: CHATANI, Naoto (14 : 40~15 : 50)

2E1-35[#] Keynote Lecture PIP Bidentate Auxiliary in C-H Functionalization: Synthetic Application and Mechanistic Studies (Zhejiang Univ.) Shi, Bing-Feng (14:40~15:10)

2E1-38[#] Invited Lecture Direct Transformation of Inert C(sp³)-H Bond by Hydride Shift Involved Internal Redox System (Gakushuin Univ.) Mori, Keiji (15:10~15:30)

2E1-40[#] Invited Lecture Highly active transition metal catalysts bearing electron-poor phosphine ligands (Iwate Univ.) Korenaga, Toshinobu (15:30~15:50)

Chair: Takai, Kazuhiko (16 : 00~17 : 10)

2E1-43[#] Keynote Lecture Catalytic Asymmetric Synthesis of Chiral Phosphorus Compounds (Shanghai Institute of Organic Chemistry) Duan, Wei-Liang (16:00~16:30)

2E1-46[#] Invited Lecture Living Supramolecular Polymerization (NIMS) Sugiyasu, Kazunori (16:30~16:50)

2E1-48[#] Invited Lecture A Silicon Nanowire Array-Stabilized Palladium Nanoparticle Catalyst (RIKEN CSRS) YAMADA, Yoichi M. A. (16:50~17:10)

(17 : 10~17 : 20)

2E1-50[#] Closing Remarks (Institute for Molecular Science) Uozumi, Yasuhiro (17:10~17:20)

Organic Chemistry -Reaction and Synthesis- Alicyclic and Alicyclic Compounds

Saturday, March 28, AM

Chair: IZAWA, Hironori (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3E1-01, 3E1-03, 3E1-04, 3E1-05, 3E1-06)

3E1-01* New Possibilities of Metal Amides as Catalysts (Grad. Sch. Sci., The Univ. of Tokyo) OYAMASHITA, Yasuhiro; KOBAYASHI, Shu

3E1-03 Nucleophilic Addition to Iminium Salts Generated from Cyclic Amino Ketene Silyl Acetals and Application to the Synthesis of 5-HT_{1A} Agonist S22178 (Grad. Sch. Eng., Mie Univ.) OKAWAMURA, Takato; SHIMIZU, Makoto

3E1-04 New Synthetic Method of Aminomalononitrile Derivatives Using Tandem Oxidative Addition Reaction of α -Imino Nitriles (Grad. Sch. Eng., Mie Univ.) OFURUKAWA, Yuki; SHIMIZU, Makoto

3E1-05 Study of Regioselective Double Nucleophilic Addition of β, γ -Alkenyl α -Iminoester (Grad. Sch. Eng., Mie Univ.) OARATAKE, Kana; SHIMIZU, Makoto

3E1-06 Competitive Asymmetric Autocatalysis Using β -Amino Alcohols and Design of Chiral Catalyst with Strong Asymmetric Power(II) (Fac. Sci., Tokyo Univ. of Sci.; Grad. Sch. Eng., Univ. of Fukui) OKUMURO, Yurika; MORI, Yusuke; NOTO, Ryo; KAWASAKI, Tsuneomi; MATSUMOTO, Arimasa; SOAI, Kenso

Chair: SHIOJI, Kosei (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3E1-08, 3E1-09, 3E1-10, 3E1-11, 3E1-12, 3E1-13)

3E1-08 Stereoselective C-C bond formations on cyclopropane ring using 1-(alkoxycarbonyl)cyclopropyl zinc halide (Fac. Textile Sci. Technol., Shinshu Univ.) OSAKUMA, Daichi; YAMADA, Kenta; NISHII, Yoshinori

3E1-09 Practical Dichlorocyclopropanation of Alkenes using CHCl₃, NaOH aqueous solution and crown ether as a recoverable phase transfer catalyst (Fac. Textile Sci. Technol., Shinshu Univ.) OTORIYABE, Kei; TABATA, Keita; NISHII, Yoshinori

3E1-10 Metal-free Alkylation of Nitrogen-containing Heteroaromatics (Grad. Sch. Sci., Chiba Univ.) OKUGAWA, Naoki; MORIYAMA, Katsuhiko; TOGO, Hideo

3E1-11 Oxidative Dealkylation of Tertiary Amines with Iodine Reagents (Grad. Sch. Sci., Chiba Univ.) EZAWA, Masatoshi; MORIYAMA, Katsuhiko; TOGO, Hideo

3E1-12 Asymmetric Autocatalysis Initiated by Chiral Crystal of Achiral Ethylenediamine Sulfate (Fac. Sci., Tokyo Univ. of Sci.) OIDE, Takahiro; KAIMORI, Yoshiyasu; FUJIWARA, Satoshi; MATSUMOTO, Arimasa; SOAI, Kenso

3E1-13 Tandem Addition Reaction Using Umpolung Reaction of 3-Oxoquinoline-2-carboxylate Derivatives Leading to the Synthesis of Tricyclic Dihydroquinoxalines (Grad. Sch. Eng., Mie Univ.) OMIYAMARU, Satoru; SHIMIZU, Makoto

Chair: YAMASHITA, Yasuhiro (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3E1-15, 3E1-16, 3E1-17, 3E1-18, 3E1-19)

3E1-15 Asymmetric Synthesis of Chiral Diamine Arising from Nitrogen Isotope Substitution and Its Chiral Discrimination by Asymmetric Autocatalysis (II) (Fac. Sci., Tokyo Univ. of Sci.; Grad. Sch. Eng., Univ. of Fukui) OZAKI, Hanae; HARADA, Shunya; TADA, Kyouhei; AYUGASE, Tomohiro; KAWASAKI, Tsuneomi; MATSUMOTO, Arimasa; SOAI, Kenso

3E1-16 Total synthesis of ferulenol by using aqueous media (Fac. Eng., Tottori Univ.) OKUMAMOTO, Izumi; YAMAMOTO, Masaichi; KITA, Kiyoshi; IZAWA, Hironori; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki

3E1-17 Synthesis of low molecular weight organic compound with differential-inducing activity of mesenchymal stem cell. (Fac. Eng., Tottori Univ.) OUCHIYAMA, Junya; OKA, Hiroyuki; SHIOTA, Goushi; IZAWA, Hironori; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki

3E1-18 Synthesis of chiral 4,4'-aryl-1,1'-bi-2-naphthols (Fac. Sci., Fukuoka Univ.) OKUMA, Kentaro; OHORIGAMI, Kenta; SHIOJI, Kosei; NAGAHORA, Noriyoshi

3E1-19* Allyl-Transfer reaction resolves the chemistry of allylation of aldehyde (Fac. of Eng., Okayama Univ. of Sci.) ONOKAMI, Junzo; ANDO, Maimi; YAMAZAKI, Shigeo

Saturday, March 28, PM

Chair: FUJITA, Takeshi (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3E1-28, 3E1-29, 3E1-30, 3E1-31, 3E1-32)

3E1-28 Development of a Direct Deoxygenation of Alcohols (Grad. Sch. Sci., Kobe Univ.) OSHIMADA, Toshiyuki; MATSUBARA, Ryosuke

3E1-29 Preparation of Flavin-containing Poly(styrene)s and Their Catalysis (The Univ. of Tokushima) OKAWACHI, Risa; ARAKAWA, Yukihiro;

MINAGAWA, Keiji; IMADA, Yasushi

- 3E1-30** Perfluoroarylborane Catalyzed Reduction Reaction of Carbon-Sulfur Bond Using Silanes (Fac. Sci., Gakushuin Univ.) ○KONDOU, Kazumi; SAITO, Kodai; AKIYAMA, Takahiko
- 3E1-31** Enantioselective synthesis of chiral amino alcohol via asymmetric autocatalytic reduction using oxazaborolidine catalyst (Grad. Sch. Eng., Univ. of Fukui) KAWASAKI, Tsuneomi; ○TAKEBE, Ryo; NISHIYAMA, Satoshi; TOKUNAGA, Yuji
- 3E1-32**** Photocatalytic Transfer Hydrogenolysis: Redox-selective Conversion of Allyl Alcohols to Alkenes (RCMS, Nagoya Univ.; Grad. Sch. Sci., Nagoya Univ.; Inst. Adv. Res., Nagoya Univ.; Fac. Sci., Tokyo Univ. of Sci.; ACT-C, JST) ○NAKA, Hiroshi; CANER, Joaquim; LIU, Zijun; TAKADA, Yuki; KUDO, Akihiko; NOYORI, Ryoji; SAITO, Susumu

Room E2

Bldg.10 1032

Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Thursday, March 26, AM

Chair: OHMORI, Ken (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1E2-01, 1E2-02, 1E2-03, 1E2-04, 1E2-06)
- 1E2-01** Desymmetrization of *meso*-1,4-Dioxane Derivatives Using Enantioselective Reductions (Grad. Sch. Eng., Mie Univ.) ○SHINDO, Hiroaki; HACHIYA, Iwao; SHIMIZU, Makoto
- 1E2-02** Enantioselective Synthesis of Planar Chiral Cyclic Amines based on the Catalytic Asymmetric Cyclization (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○ANO, Yusuke; ICHIKAWA, Nobumasa; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 1E2-03** Synthesis and Stereochemical Behavior of 9-membered Planar Chiral Diallylic Amine Derivatives having C4-Substituent (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ANO, Yusuke; ○HAYASHI, Junichi; UEHARA, Kazuhiro; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 1E2-04*** Site- and Enantioselective Oxidative Cycloamination Using Chiral Hypoiodite Catalysis (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○SUZUKI, Daisuke; UYANIK, Muhammet; ISHIIHARA, Kazuaki
- 1E2-06*** Chiral Hypoiodite-Catalyzed Enantioselective Oxidative Cyclization to Alicyclic Ethers (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○HAYASHI, Hiroki; UYANIK, Muhammet; ISHIIHARA, Kazuaki

Chair: NAKA, Hiroshi (10 : 10 ~ 11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(1E2-08, 1E2-09, 1E2-10, 1E2-11, 1E2-12)
- 1E2-08** Stereoselective synthesis of axially chiral biphenyls containing a stereogenic tertiary alcohol center in the lactone bridge (Sch. Pharm., TUPLS) ○MAEDA, Takuya; YUYAMA, Daisuke; YAMAGUCHI, Satoru; YANAI, Hikaru; SUZUKI, Keisuke; MATSUMOTO, Takashi
- 1E2-09** Atrop-diastereoselective desymmetrization of biphenyl-2,6-diol derivatives via the formation of medium-ring lactone bridge (Sch. Pharm., TUPLS) ○YUYAMA, Daisuke; MAEDA, Takuya; SUGIYAMA, Nanami; YAMAGUCHI, Satoru; YANAI, Hikaru; SUZUKI, Keisuke; MATSUMOTO, Takashi
- 1E2-10** Stereoselective synthesis of tetrahydrofurans by oxidative cyclization of 1,5-dienes with hydrogen peroxide catalyzed by an Os(III) complex (Grad. Sch. Eng., Osaka Univ.) ○SUGIMOTO, Hideki; KANETAKE, Takayuki; ITOH, Shinobu
- 1E2-11** Synthesis of oxabicyclo compounds by isomerization of cyclic epoxy alcohols (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) ○IWAKURA, Masaru; TOKURA, Hiroshi; TANINO, Keiji
- 1E2-12** Bronsted Base-Catalyzed Formal [3+2] Cycloaddition of β, γ -Epoxy Esters with Imines (Grad. Sch. Sci., Tohoku Univ.) ○ODAIRA, Kenta; KONDOH, Azusa; TERADA, Masahiro

Chair: IGAWA, Kazunobu (11 : 10 ~ 12 : 00)

- * 11:00-11:10: interval for laptop PC connection.(1E2-14, 1E2-15, 1E2-17, 1E2-18)
- 1E2-14** Construction of spirocyclic skeleton by intramolecular redox cyclization / Friedel-Crafts reaction sequence (Fac. Sci., Gakushuin Univ.) ○KITAMURA, Eriko; MORI, Keiji; AKIYAMA, Takahiko
- 1E2-15**** Enantioselective Palladium(0)-Catalyzed Nazarov-type Cyclization (Univ. of Hawaii Department of Chemistry) ○KITAMURA, Kei; SHIMADA, Naoyuki; STEWART, Craig; TIUS, Marcus A
- 1E2-17** Development of Intramolecular Friedel-Crafts Reaction using Dioxinone Derivative (Grad. Sch. Sci., Eng., Tokyo Tech) ○AOKI, Yoshifumi; OHMORI, Ken; SUZUKI, Keisuke
- 1E2-18** Thiol-mediated synthesis of bicyclo-skeleton (Grad. Sch. Sci., Eng., Tokyo Tech) ○FUKAZAWA, Takumi; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke

Thursday, March 26, PM

Chair: SHIGETA, Masayuki (13 : 30 ~ 14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1E2-28, 1E2-29, 1E2-30, 1E2-32, 1E2-33)
- 1E2-28** Enantioselective Cyanosilylation of Ketones Catalyzed by Chiral Lithium(I) Phosphoryl Phenoxides (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○YAMAKAWA, Katsuya; HATANNO, Manabu; ISHIIHARA, Kazuaki
- 1E2-29** Enantio-, Regio-, and Substrate-Selective Diels-Alder Reaction Induced by Chiral Cavity of Supramolecular Lewis Acid Catalysts (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○SAKAMOTO, Tatsuhiro; HATANNO, Manabu; ISHIIHARA, Kazuaki
- 1E2-30**** Development of asymmetric 1,3-dipolar cyclization reactions using novel LASC-SWNT catalysts (Grad. Sch. Sci., The Univ. of Tokyo) ○XU, Pengyu; KITANOSONO, Taku; KOBAYASHI, Shu
- 1E2-32** Asymmetric Mukaiyama aldol reactions using novel LASC-SWNT catalysts in water (Grad. Sch. Sci., The Univ. of Tokyo) ○MURATA, Naohiro; XU, Pengyu; ZHU, Lei; KITANOSONO, Taku; KOBAYASHI, Shu
- 1E2-33** Tandem Oxazolidinone Synthesis using Silver Catalyst as π -Lewis acid (Grad. Sch. Sci. Techn., Keio Univ.) ○MAWATARI, Takanori; SEKINE, Kohei; YAMADA, Tohru

Chair: OHMORI, Ken (14 : 40 ~ 15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1E2-35, 1E2-37, 1E2-38, 1E2-39, 1E2-40)
- 1E2-35**** Development of catalytic construction of hydrogen isotope chirality in deuterium oxide (Grad. Sch. Sci., The Univ. of Tokyo) ○KITANOSONO, Taku; KOBAYASHI, Shu
- 1E2-37*** Chiral copper catalysis for enantioselective silyl conjugate additions in water (Grad. Sch. Sci., The Univ. of Tokyo) KOBAYASHI, Shu; ○LIU, Chang; ZHU, Lei; XU, Pengyu; UENO, Masaharu
- 1E2-38** Lewis Acid-mediated chiral transfer ring-expansion of Methyl 1-(arylcabonyl)-2-aryl- cyclopropanecarboxylates to afford dihydronaphthols (Fac. Textile Sci. Technol., Shinshu Univ.) ○YAMADA, Kenta; NISHII, Yosinori
- 1E2-39** Lewis Acid-mediated chiral transfer homo-Michael addition to arylcyclopropanedicarboxylic diester (Fac. Textile Sci. Technol., Shinshu Univ.) ○IWATA, Kiitsu; TAKADA, Seijiro; NISHII, Yoshinori
- 1E2-40** Carbon Dioxide Incorporation Reaction into Allylsilane Compounds based on Alkyne Activation by Silver Catalysts (Fac. Sci. Techn., Keio Univ.) SEKINE, Kohei; ○SADAMITSU, Yuta; YAMADA, Tohru

Chair: HACHIYA, Iwao (15 : 50 ~ 16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1E2-42, 1E2-43, 1E2-44, 1E2-45, 1E2-46)
- 1E2-42** Expeditious Construction of Fused Pyran Skeleton by Domino Internal Redox Process (Fac. Sci., Gakushuin Univ.) ○UMEHARA, Nobuaki; MORI, Keiji; AKIYAMA, Takahiko
- 1E2-43** Asymmetric Synthesis of Fused Piperidine Derivatives by the Domino Internal Redox Process (Fac. Sci., Gakushuin Univ.) ○ISOGAI, Ryo; MORI, Keiji; AKIYAMA, Takahiko
- 1E2-44** Synthesis of esters through a novel spontaneous Meinwald rearrangement reaction (RIKEN Synthetic Organic Chemistry Laboratory; CREST, JST; Tokyo Med. and Dental Univ. Graduate School of Medical and Dental Sciences; RIKEN CSRS) ○KAKUMOTO, Daiki; NISHIZAWA, Eri; MORITA, Masaki; HIRAI, Go; SODEOKA, Mikiko
- 1E2-45** Synthesis of Phenanthrene Derivatives Utilizing [1,2]-Phospha-Brook Rearrangement Catalyzed by Bronsted Base (Grad. Sch. Sci., Tohoku Univ.) ○AOKI, Takuma; KONDOH, Azusa; TERADA, Masahiro
- 1E2-46**** Bronsted Base-Catalyzed Three Component Reaction Utilizing [1,2]-Phospha-Brook Rearrangement (Grad. Sch. Sci., Tohoku Univ.) ○KONDOH, Azusa; TERADA, Masahiro

Chair: YAMANAKA, Masahiro (17 : 00 ~ 18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(1E2-49, 1E2-50, 1E2-51, 1E2-52, 1E2-53, 1E2-54)
- 1E2-49** Facile Preparation of Dihydrooxazines via the Double Addition of 2-Aminoalkanols to Haloalkynes (Grad. Sch. Biosci. Biotech., Tokyo Tech) YAMAGISHI, Masahito; ○SHINOHARA, Yuki; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
- 1E2-50** One-pot Acetylenic-bond Cleavage via the Double Addition of Diamines to Haloalkynes and Aerial Oxidation (Grad. Sch. Biosci. Biotech., Tokyo Tech) YAMAGISHI, Masahito; ○SHINOHARA, Yuki; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
- 1E2-51** Tandem Umpolung Reaction of α -Imino Allyl Esters Followed by Claisen Rearrangement and a Mechanistic Study (Grad. Sch. Eng., Mie Univ.) ○KOBAYASHI, Yoshinari; MIZOTA, Isao; SHIMIZU, Makoto
- 1E2-52** Tandem *N*-Alkylation/Stereoselective Claisen Rearrangement of α -Imino Allyl Esters Utilizing Umpolung Reaction (Grad. Sch. Eng., Mie Univ.) ○FUKAYA, Toshikazu; MIZOTA, Isao; SHIMIZU, Makoto
- 1E2-53** Synthesis of α -(cyanoalkyl)- β -hydroxyketones via formal rearrangement reaction of epoxy cyanoalcohols (Hokkaido Univ. Graduate School of Chemical Sciences and Engineering) ○DOMON, Daisuke; TANINO, Keiji

- 1E2-54** Synthetic Study of Matemone Containing an Oxindole Using 1,2-Aza-Brook Rearrangement as a Key Reaction (Grad. Sch. Eng., Mie Univ.)
 ○IMAZATO, Hayao; SHIMIZU, Makoto

Friday, March 27, AM

Chair: OGAWA, Narihito (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2E2-01, 2E2-02, 2E2-03, 2E2-04, 2E2-05)
2E2-01 Iodine-Catalyzed Decarboxylative Amination of β, γ -Unsaturated Carboxylic Acids with Chloramine Salts (Grad. Sch. Eng., Osaka Univ.)
 ○KOJIMA, Takumi; HISHIKAWA, Yusuke; KIYOKAWA, Kensuke; MINAKATA, Satoshi
2E2-02 Nucleophilic Addition of Carboxylic Amides to Haloalkynes and Its Application (Grad. Sch. Biosci. Biotech., Tokyo Tech) ISHII, Azusa; YAMAGISHI, Masahito; ○KOSAKA, Kyohei; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
2E2-03 Synthesis of Tripeptides Using Amino Acid Ionic Liquids (Osaka Prefecture University, Ajinomoto Company, Incorporated Graduate School of Science) FUKUYAMA, Takahide; ○KURATSU, Mai; RYU, Ilhyong; FURUKAWA, Shinya; INEYAMA, Takashi
2E2-04 Nucleophilic Addition of Amides Leading to *N*-acyl-*N,O*-hemiacetals (Sch. Env. Sci. Eng., KUT) ○INOUE, Kanami; ASAHARA, Haruyasu; NISHIWAKI, Nagatoshi
2E2-05* Synthesis and Chemical Conversion of Acrylamides Having an Electron-Donating Group at the β -position (Sch. Env. Sci. Eng., KUT)
 ○HIRAI, Sho; ASAHARA, Haruyasu; NISHIWAKI, Nagatoshi

Chair: ASAHARA, Haruyasu (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2E2-08, 2E2-09, 2E2-10, 2E2-11, 2E2-12)
2E2-08 Regio- and stereoselective iodobromination of internal alkynes for synthesis of (E)-1-bromo-2-iodoalkenes. (Grad. Sch. Sci. Tech., Ryukoku Univ.) ○SHIOGAI, Ryo; IDE, Masataka; YAUCHI, Yuta; IWASAWA, Tetsuo
2E2-09 Highly Z-selective synthesis of 1,3-dienes by a new Julia-Kocienski type reagent (Fac. Eng., Gifu Univ.) ○ASANO, Hideki; KAWANO, Daiki; SEMII, Yutaka; ANDO, Kaori
2E2-10 Synthesis of isindoline derivatives for ring expansion of subphthalocyanines. (Grad. Sch. Industrial Tech., Nihon Univ.) ○TAKEMOTO, Makoto; YOSHINO, Satoru; KOMORIYA, Tomoe; SAKAMOTO, Keiichi
2E2-11 Enantioselective Synthesis of Silacyclopentenol and its Transformations (IMCE, Kyushu Univ.) YOSHIIHRO, Daisuke; ○ABE, Yusuke; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
2E2-12* Sulfonylecarbamate as a Versatile and Unique Hydroxy-Protecting Group: Protecting Group Stable under Severe Conditions yet Labile under Mild Conditions (RIKEN Synthetic Cellular Chemistry Lab) ○MANABE, Shino; ITO, Yukishige

Chair: IGAWA, Kazunobu (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2E2-15, 2E2-16, 2E2-17, 2E2-19)
2E2-15 The synthesis of inositol-1-phosphate analogues as an PIP-phosphatase inhibitor. (Grad. Sch. Eng., KIT) ○NAKAMURA, Shuya; NAGATA, Yuki; NOMIYA, Hiroki; KITAMURA, Mitsuru; OKAUCHI, Tatsuo
2E2-16 Enantioselective Total Synthesis of Anastrophelin (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○WADA, Kyohei; OGAWA, Narihito; KOBAYASHI, Yuichi
2E2-17** Synthesis and Biological Activity of Arylcyclopropylamines as Selective LSD1 Inhibitors (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; Kyoto Pref. Univ. of Med. Graduate School of Medical Science) ○MIYAMURA, Shin; ARAKI, Misaho; OTA, Yosuke; ITOH, Yukihiko; SUZUKI, Takayoshi; YAMAGUCHI, Junichiro; ITAMI, Kenichiro
2E2-19* Practical Syntheses of Substituted Sondheimer-Wong Dienes (Fac. of Eng., Okayama Univ. of Sci.) ○ORITA, Akihiro; XU, Feng; PENG, Lifeng; SHINOHARA, Kenta; NISHIDA, Takanori; OTERA, Junzo

Friday, March 27, PM

Chair: NOKAMI, Toshiki (13 : 30 ~ 14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2E2-28, 2E2-29, 2E2-30, 2E2-32, 2E2-33)
2E2-28 Trifluoromethylation of carbonyl compound using novel Trifluoromethyl reagents (Grad. Sch. Sci., Eng., Tokyo Tech) ○TOYA, Wataru; NAKAMURA, Yuzo; AIKAWA, Kohsuke; MIKAMI, Koichi
2E2-29 Benzylic C(sp³)-H Trifluoromethylation of 6-Membered Heteroaromatic Compounds using BF₂CF₃ as Lewis Acid and Trifluoromethylation Reagent (Grad. Sch. Pharm., The Univ. of Tokyo) ○NAGASE, Masahiro; KUNINOBU, Yoichiro; KANAI, Motomu
2E2-30* Synthesis of F-containing compounds by electrophilic- or nucleophilic trifluoromethylation (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○ARIMORI, Sadayuki; NISHIMINE, Takayuki; TAIRA, Hiromi; SHIBATA, Norio
2E2-32 Development of Trifluoromethylthiolation Reactions Using a Novel ⁺SCF₃ Reagent (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○TAKADA,

Masahiro; ARIMORI, Sadayuki; SHIBATA, Norio

- 2E2-33** Development of catalytic perfluoroalkylations of aryl halides using stable perfluoroalkylzinc reagents (Grad. Sch. Sci., Eng., Tokyo Tech)
 ○YOKOTA, Yuki; NAKAMURA, Yuzo; AIKAWA, Kohsuke; MIKAMI, Koichi

Chair: YAJIMA, Tomoko (14 : 40 ~ 15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2E2-35, 2E2-36, 2E2-37, 2E2-38, 2E2-39)
2E2-35 Effects of ortho-substituents on catalytic aromatic perfluoroalkylation (Grad. Sch. Sci. Tech., Gunma Univ.) ○KOMODA, Kazuki; SHIMIZU, Naoto; SERIZAWA, Hiroki; AIKAWA, Kohsuke; MIKAMI, Koichi; AMII, Hideki
2E2-36 novel synthesis of trifluoroacetaldehyde equivalents using catalytic reduction of trifluoroacetic acid derivatives (Fac. Eng., Gifu Univ.) FUNABIKI, Kazumasa; ○YANO, Yosuke; KURAMOTO, Shingo; KUBOTA, Yasuhiro; MATSUI, Masaki
2E2-37 Direct Difluoromethylations of α -position of Nitriles (Grad. Sch. Sci., Eng., Tokyo Tech) ○MARUYAMA, Kenichi; AIKAWA, Kohsuke; MIKAMI, Koichi
2E2-38 Generation and Reaction of Fluoroalkyl Carbanions by Deprotonation (Grad. Sch. Sci. Tech., Gunma Univ.) ○KITAHARA, Taku; SUGIISHI, Tsuyuka; AMII, Hideki
2E2-39* Asymmetric alkylation of fluorinated Morita-Baylis-Hillman adducts (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○OKUSU, Satoshi; OKAZAKI, Hiroki; TOKUNAGA, Etsuko; SHIBATA, Norio

Chair: SUGIISHI, Tsuyuka (15 : 50 ~ 16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2E2-42, 2E2-43, 2E2-44, 2E2-45, 2E2-46, 2E2-47)
2E2-42 Payne rearrangement of 3-CF₃-2,3-epoxy alcohols with a substituent at the 3-position (Fac. Eng., Tokyo Univ. of Agri. and Technol.) YAMAZAKI, Takashi; TAKASUKA, Tomoko; ○SHONAKA, Moe
2E2-43 The redox type isomerization of β -trifluoromethylated allylic alcohols (Fac. Eng., Tokyo Univ. of Agri. and Technol.) YAMAZAKI, Takashi; ○HAMADA, Yoko; TAKASUKA, Tomoko
2E2-44 Radical addition to fluorinated- α -methylenecarboxylic esters (Grad. Sch. Human. Sci., Ochanomizu Univ.) ○KASAHARA, Miku; YAJIMA, Tomoko
2E2-45 Development of chiral Pd-catalyzed enantioselective carbonyl-ene reactions of difluoropyruvates (Grad. Sch. Sci., Eng., Tokyo Tech) ○YOSHIDA, Seiya; HONDA, Kazuya; AIKAWA, Kohsuke; MIKAMI, Koichi
2E2-46 Ring-opening allylation of *gem*-difluorocyclopropane derivatives via radical reaction (Fac. Eng., Tottori Univ.) ○MASUOHARA, Yoshihiro; NARITA, Kento; NOKAMI, Toshiki; ITOH, Toshiyuki
2E2-47 Synthesis of optically pure fluorine-containing epoxide (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○HASHIZUME, Yuka; KATAGIRI, Toshimasa

Chair: HATA, Takeshi (17 : 00 ~ 18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(2E2-49, 2E2-50, 2E2-51, 2E2-52, 2E2-53, 2E2-54)
2E2-49 Gas evolution using perfluoropolyether and its utilization for some organic synthesis. (Grad. Sch. Sci., Osaka Pref. Univ.) ○MATAKE, Ryosuke; NIWA, Yuki; MATSUBARA, Hiroshi
2E2-50 Highly stereoselective synthesis of multi substituted fluorine-containing alkenes based on sequential Heck reaction (KIT) ○SAKAGUCHI, Yukiho; KONNO, Tsutomu
2E2-51 Hydrosilylation of fluorine-containing 1,3-diene (KIT) ○NISHI, Yuji; NAGAI, Kento; KONNO, Tsutomu
2E2-52 Enantioselective Propargylic Fluoroalkylation based on C-F bond Activation (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○FUKUHSHI, Kazunobu; TAKAYUKI, Nishimine; TAIRA, Hiromi; TOKUNAGA, Etsuko; SHIBATA, Norio
2E2-53 Synthesis of CH₂F-containing epoxide via C-F bond cleavage (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○TANAKA, Junki; ARIMORI, Sadayuki; TOKUNAGA, Etsuko; SHIBATA, Norio
2E2-54 Transformation of Trifluorotoluene Derivatives by TiCl₄-Et₃SiH System (Fac. Sci., Gakushuin Univ.) ○YAMADA, Takayuki; SAITO, Kodai; AKIYAMA, Takahiko

Chair: MATSUBARA, Hiroshi (18 : 10 ~ 18 : 40)

- * 18:00-18:10: interval for laptop PC connection.(2E2-56, 2E2-58)
2E2-56** Catalytic fluoride triggers dehydrative oxazolidinone synthesis from CO₂ (Grad. Sch. Sci., Nagoya Univ.) ○TAKADA, Yuki; FOO, Siang Wan; YAMAZAKI, Yusuke; NOYORI, Ryoji; SAITO, Susumu
2E2-58 Synthesis of *gem*-Ethanopyrrolidines via the Nucleophilic Addition of *N*-(Cyclopropylmethyl)triflamides to Haloalkynes (Grad. Sch. Biosci. Biotech., Tokyo Tech) OGAWA, Shin; ○SAKAGUCHI, Eriko; HATA, Takeshi; URABE, Hirokazu

Saturday, March 28, AM

Chair: AKAGAWA, Kengo (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3E2-01, 3E2-02, 3E2-03, 3E2-04, 3E2-05, 3E2-06)

- 3E2-01** Solvent Effects on the First Non-enzymatic Dynamic Kinetic Resolution of Racemic 2-(1H-Pyrrol-1-yl)alkanoic Acids Using MA-BTM Combined System (Fac. Sci., Tokyo Univ. of Sci.) ○TOKUMARU, Eri; TENGEJI, Atsushi; NAKAHARA, Takayoshi; SHIINA, Isamu
- 3E2-02** Kinetic Resolution of Racemic 2-Hydroxyacetals by the Asymmetric Esterification Using MA-BTM Combined System (Fac. Sci., Tokyo Univ. of Sci.) NAKATA, Kenya; ○NAKAHARA, Takayoshi; SAITO, Takahiro; SHIINA, Isamu
- 3E2-03** Rationalization of the Kinetic Resolution of Racemic 2-Hydroxycarbonyl Compounds Using Asymmetric Esterification (Fac. Sci., Tokyo Univ. of Sci.) SHIINA, Isamu; NAKAHARA, Takayoshi; ○ISHIKAWA, Ryo; NAKATA, Kenya
- 3E2-04** Synthesis and Stereochemical Behavior of Nine-membered Dialkoxysilane having Dynamic Planar Chirality (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) IGAWA, Kazunobu; ○KUDO, Yudai; MITOMURA, Shogo; MIYASAKA, Shoji; TOMOOKA, Katsuhiko
- 3E2-05** Design and Synthesis of Novel *N*-Arylamides possessing Dynamic Axial Chirality (IMCE, Kyushu Univ.) KASHIWAGI, Takeru; ○HIRATSUKA, Yuuya; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3E2-06** Study on Stereochemical Behavior of 1,3-Ketoamide Enolate (IMCE, Kyushu Univ.) KAWASAKI, Yuuya; ○KAMIKUBO, Ryota; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

Chair: IGAWA, Kazunobu (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3E2-08, 3E2-11, 3E2-12, 3E2-13)

- 3E2-08** Young Scholar Lectures of CSJ Development of Novel Kinetic Resolution by Catalytic Asymmetric Dehydration Condensation Reaction (Grad. Sch. Fac. Sci. Eng., Shimane Univ.) ○NAKATA, Kenya
- 3E2-11** Peptide-Catalyzed Kinetic Resolution and Desymmetrization of Planar-Chiral Cyclophanes (IIS, The Univ. of Tokyo) ○NISHI, Nobuhiro; AKAGAWA, Kengo; KUDO, Kazuaki
- 3E2-12** Ruthenium-catalyzed highly selective kinetic resolution of H/D isotope chiral compounds (Kyushu Univ. ICNER) NISHIOKA, Yota; ○NAKAGAWA, Yuta; ITO, Yutarou; UCHIDA, Tatsuya; KATSUKI, Tsutomu
- 3E2-13** Utilization of aminyl radical formed by the radical reduction of 2-(phenylseleno)ethanesulfonamide (Fac. Sci., Kanagawa Univ.) ○IWASAKI, Ryo; KIHARA, Nobuhiro

Chair: HASHIMOTO, Takuya (11 : 20 ~ 12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3E2-15, 3E2-16, 3E2-17, 3E2-18, 3E2-19)

- 3E2-15** Intramolecular formal C-H insertion of photochemically-generated siloxycarbenes (Fac. Sci., Gakushuin Univ.; Grad. Sch. Sci., Eng., Tokyo Tech) ○NAKADA, Takuma; ISHII, Shuichi; OHYAMA, Tomoya; ITO, Kazuta; ISHIDA, Kento; IWASAWA, Nobuharu; KUSAMA, Hiroyuki
- 3E2-16** Oxidative Dual Radical Cyclization of 1,6-Heptadienes with Malonamide Derivatives (Grad. Sch. Sci. Technol., Kumamoto Univ.) ○HATANO, Shunsuke; NISHINO, Hiroshi
- 3E2-17** Ring-opening allylation of Spiro-bis-*gem*-difluorocyclopropane via radical reaction process (Grad. Sch. Eng., Tottori Univ.) ○NARITA, Kento; MASUHARA, Yoshihiro; NOKAMI, Toshiki; ITOH, Toshiyuki
- 3E2-18** Stereoselective radical addition to α -methylene- β -amino esters containing Ellman's chiral auxiliary group (Grad. Sch. Human Sci., Ochanomizu Univ.) ○SANO, Anna; YAJIMA, Tomoko
- 3E2-19** Development of Residue-Selective Bioconjugation Targeting Native Proteins Using Organoradicals (Grad. Sch. Pharm., The Univ. of Tokyo) ○SEKI, Yohei; ABE, Junpei; TOYOTA, Yosuke; SOHMA, Youhei; OISAKI, Kounosuke; KANAI, Motomu

Saturday, March 28, PM

Chair: OISAKI, Kounosuke (13 : 30 ~ 14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3E2-28, 3E2-29, 3E2-30, 3E2-31, 3E2-32)

- 3E2-28** A Bulky Thiyl Radical Catalyst for [3 + 2] Cyclization of Vinylaziridine and Alkenes (Grad. Sch. Sci., Kyoto Univ.) ○TAKINO, Kohei; HASHIMOTO, Takuya; MARUOKA, Keiji
- 3E2-29** Efficient Photolytic C-H Bond Functionalization of Aliphatic Hydrocarbons with Hypervalent Iodine(III) Reagent (Grad. Sch. Sci., Kyoto Univ.) ○INADA, Tsubasa; MOTTEKI, Shin; MARUOKA, Keiji
- 3E2-30** New and Efficient Generation of Trifluoromethyl Radicals Using Highly Electrophilic Hypervalent Iodine(III) Under Metal-Free Conditions (Grad. Sch. Sci., Kyoto Univ.) ○KASHIWAGI, Hirotsugu; MOTTEKI, Shin; MARUOKA, Keiji
- 3E2-31** Pd-catalyzed oxidative coupling of *N*-Boc oxindoles (RIKEN; Tokyo Med. and Dental Univ.) ○SAWAMURA, Miki; HOJO, Daiki; AKINDELE, Tito; SOHTOME, Yoshihiro; SODEOKA, Mikiko

- 3E2-32** Development of Aerobic Cross-Dehydrogenative Coupling Reactions via Single-electron Transfer and Radical Chain Processes (Grad. Sch. Sci., The Univ. of Tokyo) ○YOO, Woo-Jin; KOBAYASHI, Shu

Chair: MATSUBARA, Ryosuke (17 : 00 ~ 17 : 40)

* 16:50-17:00: interval for laptop PC connection.(3E2-49, 3E2-50, 3E2-51, 3E2-52)

- 3E2-49** Synthesis of π -Conjugated Molecules with Highly Condensed Systems via [4+2] Cycloaddition of Didehydroisobenzoheterole (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○MATSUOKA, Suguru; SUGIMOTO, Ryo; CHUDA, Yu; HAMURA, Toshiyuki
- 3E2-50** Synthesis of Planar Chiral (1,10)Anthracenophanes and Reactivity and Stereochemical Behavior Thereof (Sch. Sci. Tech., Kwansei Gakuin Univ.) HAMURA, Toshiyuki; ○NISHIDA, Ibuki; MATSUOKA, Suguru; OGAWA, Kouhei; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3E2-51** Titanium Tetraiodide Induced Cyclization of Cyanoketones into Isoquinolines (Grad. Sch. Eng., Mie Univ.) ○SAKATA, Keito; YASHIRO, Kai; HACHIYA, Iwao; SHIMIZU, Makoto
- 3E2-52** EtAlCl₂/Base-mediated dehydrogenative carboxylation of alkenes (Grad. Sch. Eng., Tohoku Univ.) ○WATANABE, Kota; TANAKA, Shinya; HATTORI, Tetsutaro

Room E3
Bldg.10 1033

Organic Chemistry -Reaction and Synthesis-
Aliphatic and Alicyclic Compounds

Thursday, March 26, AM

Chair: URAGUCHI, Daisuke (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1E3-01, 1E3-02, 1E3-03, 1E3-04, 1E3-05, 1E3-06)

- 1E3-01** Development of Chiral Calcium-Catalyzed Asymmetric 1,4-Addition Reactions of Imides (Grad. Sch. Sci., The Univ. of Tokyo) ○AOKI, Masanori; TSUBOGO, Tetsu; KOBAYASHI, Shu
- 1E3-02** Synthesis of chiral 3-methyl glutamic acid derivatives catalyzed by calcium catalyst (Grad. Sch. Sci., The Univ. of Tokyo) TSUBOGO, Tetsu; ○LI, Minghao; HUTKA, Martin; KOBAYASHI, Shu
- 1E3-03** Tail-to-Tail Cross-Dimerization of Various Michael Acceptors Catalyzed by *N*-Heterocyclic Carbene (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○FUKUMOTO, Yuki; MATSUOKA, Shinichi; SUZUKI, Masato
- 1E3-04** Hydrogenation using water as a proton source mediated by *N*-heterocyclic carbene (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○KATO, Terumasa; MATSUOKA, Shin-ichi; SUZUKI, Masato
- 1E3-05** Synthesis of 2-Aminopyridinium Salts from 2-Iminopyridines as Starting Materials (Grad. Sch. Eng., Mie Univ.) ○FUKUTOMI, Makoto; HACHIYA, Iwao; SHIMIZU, Makoto
- 1E3-06** Tandem *N*-Alkylation Michael Addition of α -Imino Thioester (Grad. Sch. Eng., Mie Univ.) ○YUN, Tesong; MIZOTA, Isao; SHIMIZU, Makoto

Chair: HACHIYA, Iwao (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1E3-08, 1E3-09, 1E3-10, 1E3-11, 1E3-12)

- 1E3-08** Development of Asymmetric Mannich-Type Reaction with *N*-Boc-Protected Aminals under Phase Transfer Conditions (Grad. Sch. Sci., Kyoto Univ.) ○KOBAYASHI, Ryohei; KANO, Taichi; MARUOKA, Keiji
- 1E3-09** Regio- and Stereoselective Conjugate Addition of Aldehydes to β -Tosyl Enones Catalyzed by Binaphthyl-Modified Chiral Amine (Grad. Sch. Sci., Kyoto Univ.) ○MARUYAMA, Hiroki; SUGIMOTO, Hisashi; KANO, Taichi; MARUOKA, Keiji
- 1E3-10** Asymmetric Intramolecular Oxy-Michael Addition of Cyanohydrins by Bifunctional Organocatalysts (Grad. Sch. Eng., Kyoto Univ.) ○YONEDA, Naoki; ASANO, Keisuke; MATSUBARA, Seijiro
- 1E3-11** Asymmetric Intramolecular Oxy-Michael Addition of 1,3-Diols by Bifunctional Organocatalysts (Grad. Sch. Eng., Kyoto Univ.) ○FUJII, Yuki; YONEDA, Naoki; ASANO, Keisuke; MATSUBARA, Seijiro
- 1E3-12** Enantioselective Synthesis of Axially Chiral Compounds by Bifunctional Organocatalysts (Grad. Sch. Eng., Kyoto Univ.) ○MIYAJI, Ryota; ASANO, Keisuke; MATSUBARA, Seijiro

Chair: KANO, Taichi (11 : 20 ~ 12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1E3-15, 1E3-17, 1E3-18, 1E3-19, 1E3-20)

- 1E3-15** Development of Catalytic Asymmetric 1,4-Addition Reactions Using Simple Amides (Grad. Sch. Sci., The Univ. of Tokyo) ○SUZUKI, Hirotsugu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 1E3-17** Development of Catalytic Asymmetric 1,4-Addition Reactions Using Simple Esters (Grad. Sch. Sci., The Univ. of Tokyo) ○SATO, Io; SUZUKI, Hirotsugu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

1E3-18 Stereoselective Cross Pinacol-Type Coupling under Chiral Iminophosphorane Catalysis (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST; University of North Carolina at Chapel Hill) ○TANAKA, Naoya; HORWITZ, Matthew; URAGUCHI, Daisuke; OOI, Takashi; JOHNSON, Jeffery

1E3-19 *E/Z*-Selective Asymmetric Conjugate Addition to Electron-Deficient Internal Alkynes (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○YAMADA, Kouhei; URAGUCHI, Daisuke; OOI, Takashi

1E3-20[#] Molecular Design and Application of a New Brønsted Acid Possessing Hexacoordinating Chiral Phosphate (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○ITO, Takaki; URAGUCHI, Daisuke; OOI, Takashi

Thursday, March 26, PM

Chair: MORIYAMA, Katsuhiko (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1E3-28, 1E3-29, 1E3-30, 1E3-31, 1E3-32)

1E3-28 Studies toward Regioselective Aerobic Oxygenation of C(sp³)-H Bonds Using an N-Oxyl Radical Catalyst with a Recognition Group (Grad. Sch. Pharm., The Univ. of Tokyo) ○TASHIRO, Masayuki; OISAKI, Kounosuke; KANAI, Motomu

1E3-29 Immobilization of flavin organocatalysts onto amino functionalized resins (The Univ. of Tokushima) ○YAMANOMOTO, Ken; ARAKAWA, Yukihiko; MINAGAWA, Keiji; IMADA, Yasushi

1E3-30 Stereoinversion reaction of a hydroxy group in carbocyclic alcohols via formylxylation (RIKEN CLST) ○OCHIAI, Hidenori; NIWA, Takashi; HOSOYA, Takamitsu

1E3-31 Tandem *N*-Alkylation/Ring Opening Reaction Using Umpolung Reaction of α -Imino Thioester Having a Cyclopropyl Group (Grad. Sch. Eng., Mie Univ.) ○MORIMOTO, Takayoshi; MIZOTA, Isao; SHIMIZU, Makoto

1E3-32^{#*} Straightforward Metal Free Synthesis of α -Hydroxy- β -dicarbonyl Compounds (Sch. Env. Sci. Eng., KUT) ○ASAHARA, Haruyasu; NISHIWAKI, Nagatoshi

Chair: ASANO, Keisuke (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1E3-35, 1E3-36, 1E3-37, 1E3-38, 1E3-39, 1E3-40)

1E3-35 Divergent Synthesis of α -Substituted Bromolactones by Bromolactonization via Umpolung of Alkali Metal Salt (Grad. Sch. Sci., Chiba Univ.) ○NISHINOHARA, Chihiro; SUGIUE, Toru; MORIYAMA, Katsuhiko; TOGO, Hideo

1E3-36 Oxidative Strecker Reaction of *N*-Electron-withdrawing-group-protected Amines Using Nitroxyl Radical-Alkali Metal Salt System (Grad. Sch. Sci., Chiba Univ.) ○KURAMOCHI, Masako; MORIYAMA, Katsuhiko; TOGO, Hideo

1E3-37 NaBr-catalyzed benzylic oxidation of aryl alkanes using hydrogen peroxide as oxidant. (Fac. Sci., Kochi Univ.) ○MAEJIMA, Yukako; NAGANO, Takashi

1E3-38 GlycolCleavage Using Sodium Hypochlorite Pentahydrate (Fac. Sci. Tech., SIST) ○MATSUSHIMA, Ryoji; YAMAZAKI, Kento; YONEYAMA, Shin; ICHINOSE, Kazuya; KIRIHARA, Masayuki

1E3-39 Synthesis of Sulfones Using the Oxidation of Sulfides with Sodium Hypochlorite Pentahydrate (Fac. Sci. Tech., SIST; Nippon Light Metal Company, Ltd. R&D Department of Chemicals) ○KINOSHITA, Yukari; KITAGAWA, Saori; AKIYAMA, Tomomi; YAMAZAKI, Kento; OKADA, Tomohide; KIRIHARA, Masayuki

1E3-40 Synthesis of Sulfonyl Bromide Using Sodium Hypochlorite Pentahydrate and Sodium Bromide (Fac. Sci. Tech., SIST; Nippon Light Metal Company, Ltd. R&D Department of Chemicals) KINOSHITA, Yukari; OKADA, Tomohide; ○KIRIHARA, Masayuki

Chair: ASAHARA, Haruyasu (15 : 50~16 : 40)

* 15:40-15:50: interval for laptop PC connection.(1E3-42, 1E3-43, 1E3-44, 1E3-45, 1E3-46)

1E3-42 IBS-Catalyzed *ortho*-Selective Oxidation of Phenols to 1,2-Quinols (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○MUTSUGA, Tatsuya; UYANIK, Muhammet; ISHIIHARA, Kazuaki

1E3-43 Oxidative Enantiomeric Discrimination of Biphenols Induced by Chiral Hypervalent Iodine(III) Catalysts (Sch. Eng., Nagoya Univ.; CREST, JST) ○SAEDA, Kirara; UYANIK, Muhammet; ISHIIHARA, Kazuaki

1E3-44 Synthesis of Oxaziridines Using the Oxidation of Imines with Sodium Hypochlorite (Fac. Sci. Tech., SIST; ISIR, Osaka Univ.) ○KITAGAWA, Saori; TAKIZAWA, Shinobu; KIRIHARA, Masayuki

1E3-45 α -Oxidative C-N Coupling Reaction of Carbonyl Compounds Using Hypoiodite Catalysis (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○TSUKAHARA, Mayuko; UYANIK, Muhammet; ISHIIHARA, Kazuaki

1E3-46 Oxidative α -Chlorination of Carbonyl Compounds Using Hypoiodite Catalysis (Sch. Eng., Nagoya Univ.; CREST, JST) ○SAHARA, Naoto; UYANIK, Muhammet; ISHIIHARA, Kazuaki

Chair: NAGANO, Takashi (16 : 50~17 : 50)

* 16:40-16:50: interval for laptop PC connection.(1E3-48, 1E3-50, 1E3-51,

1E3-53)

1E3-48^{*} Nef Reaction with Molecular Oxygen in the Absence of Metal Additives, and Mechanistic Insights (Grad. Sch. Sci., Tohoku Univ.) ○UMEMIYA, Shigenobu; NISHINO, Kentaro; SATO, Itaru; HAYASHI, Yujiro

1E3-50 Oxidative Halogenation by Using Hydrogen Peroxide (Grad. Sch. Eng., Osaka Univ.; ACT-C, JST) MORIUCHI, Toshiyuki; ○FUKUI, Yasuhiro; HIRAO, Toshikazu

1E3-51^{*} Chiral Iodine(I or III)-Catalyzed Oxidative Dearomatization of Phenols (Grad. Sch. Eng., Nagoya Univ.) ○SASAKURA, Niiha; UYANIK, Muhammet; ISHIIHARA, Kazuaki

1E3-53 Chiral Hypervalent Iodine(III)-Catalyzed Enantioselective Spirolactonization of (4-Hydroxyphenyl)carboxylic Acid Derivatives (Grad. Sch. Eng., Nagoya Univ.) ○MIZUNO, Masahiro; UYANIK, Muhammet; ISHIIHARA, Kazuaki

Chair: MORIUCHI, Toshiyuki (18 : 00~18 : 30)

* 17:50-18:00: interval for laptop PC connection.(1E3-55, 1E3-56, 1E3-57)

1E3-55^{*} Synthesis of Enantioenriched Spirocyclic Ketones via Iron-Catalyzed Aerobic Intramolecular Dearomatization of Unsymmetrical Methylenebisarenes (I₂CNER, Kyushu Univ.) ○KIM, Chungsik; OGUMA, Takuya; FUJITOMO, Chisaki; UCHIDA, Tatsuya; TSUTOMU, Katsuki

1E3-56 Hypoiodite-Catalyzed Oxidative Hetero-Diels-Alder Reaction of Phenols (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○NISHIOKA, Kohei; UYANIK, Muhammet; ISHIIHARA, Kazuaki

1E3-57 Hypoiodite-Catalyzed Oxidative Dearomatization of Indole Derivatives (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○UKEGAWA, Naoya; UYANIK, Muhammet; ISHIIHARA, Kazuaki

Friday, March 27, AM

Chair: NAKAMURA, Shuichi (9 : 00~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2E3-01, 2E3-02, 2E3-03, 2E3-04, 2E3-05, 2E3-06)

2E3-01 Enantioselective Addition-Cyclization Cascade Reaction of Aldimines with Styrenes Catalyzed by Chiral Magnesium Binaphthylsulfonates (Nagoya Univ. VBL; Grad. Sch. Eng., Nagoya Univ.; CREST) ○NISHIKAWA, Keisuke; HATANO, Manabu; ISHIIHARA, Kazuaki

2E3-02 Regio- and Enantioselective Aza-Friedel-Crafts Reaction of Imino Esters with Phenols Catalyzed by Chiral Binaphthyl-2,2'-Bis(monophosphate)s (Grad. Sch. Eng., Nagoya Univ.) ○OKAMOTO, Haruka; HATANO, Manabu; ISHIIHARA, Kazuaki

2E3-03 Enantioselective Addition of 2-Alkoxycarbonyl-1,3-dithiane to Imines Catalyzed by Bis(guanidino)iminophosphorane Organosuperbase Catalyst (Grad. Sch. Sci., Tohoku Univ.) ○OISHI, Masafumi; TAKEDA, Tadahiro; KONDOH, Azusa; TERADA, Masahiro

2E3-04 Construction of Vicinal Quaternary Chiral Centers by Asymmetric Mannich Type Reaction Using Optically Active Bis(guanidino)iminophosphorane Organosuperbase Catalyst (Grad. Sch. Sci., Tohoku Univ.; Daiichi Sankyo Co., LTD. Process Technology Research Laboratories) ○TAKEDA, Tadahiro; TERADA, Masahiro

2E3-05 Thiourea-catalyzed Generation of Trityl Cation Species: Application to Carbonyl-Ene Cyclization Reaction (Fac. Sci., Kochi Univ.) ○NISHIYAMA, Nobuo; KOTSUKI, Hiyoshizo

2E3-06^{*} Development of Enantioselective Organocatalyzed Formal [n+2] Cycloaddition of Allenic Ester with Olefins (ISIR, Osaka Univ.) ○YOSHIDA, Yasushi; TAKIZAWA, Shinobu; ARTEAGA, Fernando Arteaga; KISHI, Kenta; SASAI, Hiroaki

Chair: TAKIZAWA, Shinobu (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2E3-08, 2E3-09, 2E3-10, 2E3-11, 2E3-12)

2E3-08 Asymmetric Mannich-type Reaction with Cyclic Ketimines Using *N*-Heteroarenesulfonyl Cinchona Alkaloid Amide Catalyst (Nagoya Inst. of Tech.) ○TODA, Ayaka; SANO, Masahide; NAKAMURA, Shuichi

2E3-09 Synthesis of novel bisoquinolinium salt derivatives with axial chirality and their catalytic activity (Toyohashi Univ. of Tech.) ○TESHIBA, Chiaki; HARAGUCHI, Naoki; ITSUNO, Shinichi

2E3-10 Enantioselective synthesis of fused piperidine derivatives with chiral quaternary carbon center by reductive amination with breaking symmetry. (Fac. Sci., Gakushuin Univ.) ○MIYAKE, Ayaka; MORI, Keiji; AKIYAMA, Takahiko

2E3-11 Development of Novel Helically Chiral Phosphazene Organosuperbase Catalysts (Grad. Sch. Sci., Tohoku Univ.) ○GOTO, Kengo; KONDOH, Azusa; TERADA, Masahiro

2E3-12^{*} Development of Efficient Peptide Catalysts by a Facile Library Screening Method (IIS, The Univ. of Tokyo) ○AKAGAWA, Kengo; KUDO, Kazuaki

Chair: HARAGUCHI, Naoki (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2E3-15, 2E3-17, 2E3-18, 2E3-19, 2E3-20)

2E3-15^{*} Phosphite-Urea Cooperative Catalysis for Enantioselective Bromocyclization of 2-Geranylphenols (Grad. Sch. Eng., Nagoya Univ.; Grad. Sch. Nat. Sci. Technol., Okayama Univ.; CREST, JST) ○SAWAMURA,

- Yasuhiro; SAKAKURA, Akira; ISHIHARA, Kazuaki
2E3-17 Enantioselective Cyanoethoxycarbonylation of α -Ketoesters Using Oxyanion Hole Catalyst toward Oxazolidinone Synthesis (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○OGURA, Yoshihiro; ISHIHARA, Kazuaki
2E3-18 Chiral Phosphoric Acid Catalyzed Asymmetric Transfer Hydrogenation of Dihydrobenzodiazepine Derivatives (Fac. Sci., Gakushuin Univ.) ○HORIGUCHI, Kosaku; YAMAMOTO, Eri; SAITO, Kodai; YAMANAKA, Masahiro; AKIYAMA, Takahiko
2E3-19 Theoretical Study on the Mechanism of Stereoselectivity in Chiral Phosphoric Acid Catalyzed Asymmetric Hydrogenation of 1,5-benzodiazepine Using benzothiazoline (Coll. Sci., Rikkyo Univ.) ○YAMAMOTO, Eri; HORIGUCHI, Kousaku; SAITO, Kodai; AKIYAMA, Takahiko; YAMANAKA, Masahiro
2E3-20 Theoretical Study on Chiral Phosphoric Acid Catalyzed Asymmetric Transfer Hydrogenation of Trifluoromethylated N-H Ketimine Using Benzothiazoline (Grad. Sch. Sci., Rikkyo Univ.) ○NODA, Hirofumi; YAMANAKA, Masahiro; AKIYAMA, Takahiko

Friday, March 27, PM

- Chair: MORIYAMA, Katsuhiko (13 : 30~14 : 30)
 * 13:20-13:30: interval for laptop PC connection.(2E3-28, 2E3-29, 2E3-30, 2E3-31, 2E3-32)
2E3-28 Development of novel preparation method of cationic flavins (The Univ. of Tokushima) ○OONISHI, Takahiro; KOHDA, Takahiro; ARAKAWA, Yukihiko; MINAGAWA, Keiji; IMADA, Yasushi
2E3-29 Oxidation catalysis of cationic flavins immobilized on cation-exchange resins (The Univ. of Tokushima) ○KOHDA, Takahiro; OONISHI, Takahiro; ARAKAWA, Yukihiko; MINAGAWA, Keiji; IMADA, Yasushi
2E3-30 Strategy for Vinylogous Nitronate Generation: Application to Highly Stereoselective Aza-Henry Reaction (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○OYAIZU, Keigo; URAGUCHI, Daisuke; OOI, Takashi
2E3-31 Betaine-Type Electron-Transfer Catalyst: Design and Application (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○TORII, Masahiro; URAGUCHI, Daisuke; OOI, Takashi
2E3-32 Catalytic Asymmetric Carbon-Hetero Atom Bond-Forming Reactions at α -Position of Carbonyl Compounds (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○ANDO, Yuichiro; OHMATSU, Kohsuke; OOI, Takashi

- Chair: ISHIHARA, Kazuaki (14 : 40~15 : 40)
 * 14:30-14:40: interval for laptop PC connection.(2E3-35, 2E3-38, 2E3-39, 2E3-40)
2E3-35 Young Scholar Lectures of CSJ Asymmetric Heterocycle Syntheses Utilizing Multipoint Activation by Organocatalysts (Grad. Sch. Eng., Kyoto Univ.) ○ASANO, Keisuke
2E3-38 Asymmetric Michael addition reaction in water using organocatalyst tethered on thermoresponsive copolymer. (Fac. Sci., Sophia Univ.) ○AKEBI, Ryuji; INOUE, Takahiro; RIKUKAWA, Masahiro; MASUYAMA, Yoshiro; SUZUKI, Noriyuki
2E3-39 Chiral Pyrrolidyl Anthranilic Acid Salt Catalyzed Enantioselective Michael Addition to β -Nitrostyrenes (Grad. Sch. Sci., Chiba Univ.) ○SUGIUE, Toru; MORIYAMA, Katsuhiko; TOGO, Hideo
2E3-40 Asymmetric Organocatalytic Michael Addition Reaction of α -Aryl-substituted Lactams: Asymmetric Total Synthesis of (+)-Mesembrine (Fac. Sci., Kochi Univ.) MINAMISAWA, Masamitsu; ONUNOKAWA, Shiori; KOTSUKI, Hiyoshizo

- Chair: MASE, Nobuyuki (15 : 50~16 : 50)
 * 15:40-15:50: interval for laptop PC connection.(2E3-42, 2E3-43, 2E3-44, 2E3-45, 2E3-46)
2E3-42 Development of catalytic asymmetric construction of spiro rings by cinchona alkaloid derivatives (Fac. Sci. Tech., Keio Univ.) YOSHIDA, Keisuke; ○ITATSU, Yukihiko; FUJINO, Yuta; TAKAO, Ken-ichi
2E3-43 Development and Application of Asymmetric Conjugate Addition Reaction of α -Formylesters Involving a Chiral Quaternary Carbon Atom Construction Catalyzed by Organocatalysts (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○TATSUMI, Toshifumi; MISAKI, Tomonori; SUGIMURA, Takashi
2E3-44 Asymmetric Construction of 1,3-Dioxanes via Kinetic Resolution by Chiral Phosphoric Acid Catalyst (Grad. Sch. Eng., Kyoto Univ.) ○MATSUMOTO, Akira; ASANO, Keisuke; MATSUBARA, Seiji
2E3-45 Synthesis of substituted trans-cyclooctenes toward the development of novel organic Lewis base catalysts (Grad. Sch. Eng., Kyoto Univ.) ○EINARU, Shunsuke; MATSUMOTO, Akira; ASANO, Keisuke; MATSUBARA, Seiji
2E3-46 Facile Asymmetric Synthesis of 1,5-Benzothiazepines through Cycloaddition (Grad. Sch. Eng., Kyoto Univ.) ○FUKATA, Yukihiko; ASANO, Keisuke; MATSUBARA, Seiji

- Chair: TAKAO, Ken-ichi (17 : 00~17 : 50)
 * 16:50-17:00: interval for laptop PC connection.(2E3-49, 2E3-51, 2E3-52, 2E3-53)

- 2E3-49*** Chiral Nucleophilic Amidophosphate-Catalyzed Enantioselective Iodoetherification (Grad. Sch. Eng., Nagoya Univ.) ○NAKATSUJI, Hidefumi; ISHIHARA, Kazuaki
2E3-51 Chiral Nucleophilic Phosphine(V)-Catalyzed Enantioselective Iodoaminocyclization (Sch. Eng., Nagoya Univ.) ○OKUMURA, Yukimasa; NAKATSUJI, Hidefumi; ISHIHARA, Kazuaki
2E3-52[#] Helically Chiral Poly(quinoxaline-2,3-diyl)s Bearing Pyridyl Pendants: Synthesis and Application for Asymmetric Organocatalytic Reactions (Grad. Sch. Eng., Kyoto Univ.) ○MURAKAMI, Ryo; YAMAMOTO, Takeshi; SUGINOME, Michinori
2E3-53 Development of Enantiomerically-Pure Polylactide Synthesis Through Organocatalytic Polymerization in Supercritical Carbon Dioxide (Grad. Sch. Eng., Shizuoka Univ.) ○YAMAMOTO, Shoji; NARUMI, Tetsuo; WATANABE, Naoharu; MASE, Nobuyuki

- Chair: SUGINOME, Michinori (18 : 00~18 : 40)
 * 17:50-18:00: interval for laptop PC connection.(2E3-55, 2E3-56, 2E3-57, 2E3-58)
2E3-55[#] Boronic Acid-Nucleophilic Base Cooperative Catalysis for Dehydrative Condensation between Carboxylic Acids and Amines (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○LU, Yanhui; ISHIHARA, Kazuaki
2E3-56 Metal-Free Tetraalkylammonium Methylcarbonate-Catalyzed Transesterification (Grad. Sch. Eng., Nagoya Univ.) ○YOSHIDA, Yurika; OGURA, Yoshihiro; KAMIYA, Sho; HATANO, Manabu; ISHIHARA, Kazuaki
2E3-57 Enantioselective Steglich Rearrangement of Oxindole derivatives: Chiral Nucleophilic Catalysts Synthesized by Ugi Multicomponent Reaction in One-pot Manner (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○FUJIWARA, Takuma; NODA, Katsuaki; MANDAI, Hiroki; KORENAGA, Toshinobu; SUGA, Seiji
2E3-58 Enantioselective Steglich Rearrangement of Oxindole Derivatives (2): Chiral Nucleophilic Catalysts having a binaphthyl skeleton (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○FUJII, Kazuki; MANDAI, Hiroki; KORENAGA, Toshinobu; SUGA, Seiji

Saturday, March 28, AM

- Chair: TERADA, Masahiro (9 : 00~9 : 30)
 * 8:50-9:00: interval for laptop PC connection.(3E3-01, 3E3-04, 3E3-05, 3E3-06)
3E3-01 CSJ Award for Young Chemists C(sp³)-H Bond Functionalization Mediated by Hydride Shift/Cyclization System (Fac. Sci., Gakushuin Univ.) ○MORI, Keiji
 Chair: KONDOH, Azusa (9 : 30~10 : 00)
3E3-04 BBr₃-Assisted Chiral Phosphoric Acid Catalysts for Enantioselective Diels-Alder Reaction of 1,2-Dihydropyridines (Grad. Sch. Eng., Nagoya Univ.; CREST) ○GOTO, Yuta; HATANO, Manabu; ISHIHARA, Kazuaki
3E3-05 Boron Lewis Acids-Assisted Chiral Phosphoric Acid Catalysts for Enantioselective Diels-Alder Reaction (Grad. Sch. Eng., Nagoya Univ.; CREST) ○ISHIHARA, Hideyuki; GOTO, Yuta; HATANO, Manabu; ISHIHARA, Kazuaki
3E3-06[#] Preparation and Evaluation of Polymer-immobilized Chiral Phosphoric Acids for Catalytic Asymmetric Intramolecular Aza-Friedel-Crafts Reaction (Grad. Sch. Sci., The Univ. of Tokyo) YOO, Woo-Jin; ○CHENG, Honggang; KOBAYASHI, Shu

- Chair: OISAKI, Kounosuke (10 : 10~11 : 10)
 * 10:00-10:10: interval for laptop PC connection.(3E3-08, 3E3-09, 3E3-10, 3E3-11, 3E3-12, 3E3-13)
3E3-08 Enantioselective Synthesis of Chiral Biaryls by Ring Opening/Transfer Hydrogenation Sequence Involving Dynamic Kinetic Resolution (Fac. Sci., Gakushuin Univ.) ○ITAKUARA, Tsubasa; MORI, Keiji; AKIYAMA, Takahiko
3E3-09 Chiral Phosphoric Acid Catalyzed Asymmetric Synthesis of Dihydroquinolones Using Aza-Michael Reaction (Fac. Sci., Gakushuin Univ.) ○MORIYA, Yuka; SAITO, Kodai; AKIYAMA, Takahiko
3E3-10 Chiral Phosphoric Acid-Catalyzed Oxidative Kinetic Resolution of Tetrahydroquinolines Based on the Transfer Hydrogenation to Imines (Fac. Sci., Gakushuin Univ.) ○MIYASHITA, Hiromitsu; SAITO, Kodai; AKIYAMA, Takahiko
3E3-11 Chiral Phosphoric Acid Catalyzed Enantioselective Friedel-Crafts Reaction of 2-Methoxyfuran with Aliphatic Ketimines (Grad. Sch. Sci., Tohoku Univ.) ○OTA, Yusuke; KOMURO, Takazumi; KONDOH, Azusa; TERADA, Masahiro
3E3-12 Catalytic Enantioselective Mannich-type Reaction of Enamide with Azlactone Catalyzed by Optically Active Binaphthalene Diamine Derived Chiral Brønsted Acid (Grad. Sch. Sci., Tohoku Univ.; Institute for Molecular Science Life and Coordination-Complex Molecular Science) ○KIKUCHI, Jun; MOMIYAMA, Norie; TERADA, Masahiro
3E3-13[#] Chiral Phosphoric Acid Catalyzed 1,2-Sulfur Rearrangement / Enantioselective Nucleophilic Addition of Dithioacetal Derivatives (Grad. Sch. Sci., Tohoku Univ.) ○LI, Feng; TERADA, Masahiro

Chair: MIZOTA, Isao (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3E3-15, 3E3-16, 3E3-17, 3E3-18, 3E3-19, 3E3-20)
- 3E3-15** A Study on the Stereocontrolling Elements of Chiral Phosphoric Acid-Catalyzed Addition Reaction of Vinylindoles with Azlactones (Grad. Sch. Sci., Tohoku Univ.) ○KANOMATA, Kyohei; TERADA, Masahiro
- 3E3-16** 1,3-Rearrangement of *N*-Homoallyl Aldimine by Bronsted Acid : Study on Reaction Mechanism (Grad. Sch. Sci., Tohoku Univ.) ○TSUKAHARA, Yuta; MOMIYAMA, Norie; TERADA, Masahiro
- 3E3-17** Aryl Phosphinic Acid-Phosphoric Acid Catalyzed Hetero Diels-Alder Reaction of Aldehydes and Danishefsky's Diene (Grad. Sch. Sci., Tohoku Univ.; Institute for Molecular Science Life and Coordination-Complex Molecular Science) ○NARUMI, Tomohiro; MOMIYAMA, Norie; TERADA, Masahiro
- 3E3-18** Catalytic Enantioselective [4+2] Cyclization Reaction of *N*-Benzoyl Imines with Alkenes Catalyzed by Perfluoroaryl Introduced Chiral Phosphoric Acid (Grad. Sch. Sci., Tohoku Univ.) ○OKAMOTO, Hiroshi; MOMIYAMA, Norie; TERADA, Masahiro
- 3E3-19** Research on Catalytic Asymmetric Friedel-Crafts Reactions Utilizing α -Alkylidene β -Oxo Imides (Fac. Sci. Eng., Waseda Univ.) ○OYAMA, Harufumi; ENOMOTO, Kazuaki; NAKADA, Masahisa
- 3E3-20[#]** Catalytic asymmetric [2+2] cycloaddition reactions of α -alkylidene β -oxo imides (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○ENOMOTO, Kazuaki; OYAMA, Harufumi; NAKADA, Masahisa

Saturday, March 28, PM

Chair: KOMEYAMA, Kimihiro (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3E3-28, 3E3-30, 3E3-31, 3E3-33)
- 3E3-28[#]** Sequential *N*-Alkylation/Vinylogous Aldol Reaction of β, γ -Alkenyl- α -iminoester (Grad. Sch. Eng., Mie Univ.) ○MIZOTA, Isao; SHIMIZU, Makoto
- 3E3-30** *De Novo* synthesis of partially fluorinated carbohydrates using Reformatsky reaction and Mukaiyama aldol reaction as key reactions. (Grad. Sch. Eng., Tottori Univ.) ○TAKAYANAGI, Keisuke; HARADA, Akinori; NOKAMI, Toshiki; ITOH, Toshiyuki
- 3E3-31[#]** Development of Catalytic Asymmetric Consecutive Aldol Reaction (Grad. Sch. Pharm., The Univ. of Tokyo; ERATO-JST; ACT-C, JST) ○YAMAMOTO, Kumiko; LIN, Luqing; MITSUNUMA, Harunobu; IDA, Takashi; MATSUNAGA, Shigeki; KANAI, Motomu
- 3E3-33** Development of Catalytic Asymmetric Cross-Aldol Reaction Using Acetaldehyde-Derived Silyl Enol Ethers (Grad. Sch. Pharm., The Univ. of Tokyo; ERATO-JST; ACT-C, JST) ○IDA, Takashi; YAMAMOTO, Kumiko; MITSUNUMA, Harunobu; MATSUNAGA, Shigeki; KANAI, Motomu

Chair: MATSUMOTO, Arimasa (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(3E3-49, 3E3-50, 3E3-51, 3E3-52)
- 3E3-49** Development of chemoselective Mannich-type reaction of carboxylic acids (Grad. Sch. Pharm., The Univ. of Tokyo) ○YAMAMOTO, Tomohiro; MORITA, Yuuya; SHIMIZU, Yohei; KANAI, Motomu
- 3E3-50** Synthesis of 1,2-dicyanoalkanes from nitroalkenes and silyl cyanide mediated by tetrabutylammonium fluoride (Grad. Sch. Eng., Osaka Univ.) ○NAGATA, Takaya; KIYOKAWA, Kensuke; MINAKATA, Satoshi
- 3E3-51** NHC-Catalyzed Double Acylation of Ynones with Benzils and Aromatic Aldehydes (Grad. Sch. Eng., Hiroshima Univ.) ○HINO, Makoto; OHNO, Akira; OKINAGA, Kousuke; KOMEYAMA, Kimihiro; YOSHIDA, Hiroto; TAKAKI, Ken
- 3E3-52** Regioselective Transacylation by the Pseudo-Intramolecular Process (Sch. Env. Sci. Eng., KUT) ○SHIBAUCHI, Hiroshi; HIRAI, Sho; ASAHARA, Haruyasu; NISHIWAKI, Nagatoshi

Room E4
Bldg.10 1041

Organic Chemistry -Reaction and Synthesis-
Organometallic Compounds

Thursday, March 26, AM

Pd

Chair: SHIBAHARA, Fumitoshi (9 : 40 ~ 10 : 30)

- * 9:30-9:40: interval for laptop PC connection.(1E4-05, 1E4-06, 1E4-07, 1E4-08, 1E4-09)
- 1E4-05** The Pd(OAc)₂-Catalyzed Lactonization of Aromatic Acetamides Involving Oxidation of the ortho C-H Bonds (Grad. Sch. Eng., Osaka Univ.) ○IGARASHI, Takuya; NOGUCHI, Moe; UEMURA, Takeshi; CHATANI, Naoto

- 1E4-06** Palladium-Catalyzed Synthesis of Dibenzothiophenes via the Carbon-Sulfur Bond Cleavage (Grad. Sch. Eng., Osaka Univ.) TOBISU, Mamoru; ○MASUYA, Yoshihiro; BABA, Katsuaki; CHATANI, Naoto
- 1E4-07** Palladium-Catalyzed Synthesis of Phosphole Derivatives through Double Carbon-Phosphorus Bond Cleavage (Grad. Sch. Eng., Osaka Univ.) ○BABA, Katsuaki; TOBISU, Mamoru; CHATANI, Naoto
- 1E4-08** Base-Free Palladium-Catalyzed Borylation of Aryl Chlorides (Grad. Sch. Sci., Kyoto Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) ○YAMAMOTO, Yutaro; MATSUBARA, Hiroshi; YORIMITSU, Hideki; OSUKA, Atsuhiko
- 1E4-09** Programmed Synthesis of Multiply Arylated Arenes (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○SUZUKI, Shin; SEGAWA, Yasutomu; YAMAGUCHI, Junichiro; ITAMI, Kenichiro

Chair: TOBISU, Mamoru (10 : 40~11 : 30)

- * 10:30-10:40: interval for laptop PC connection.(1E4-11, 1E4-12, 1E4-13, 1E4-14, 1E4-15)
- 1E4-11** Synthesis of Heteroaryl-Substituted Allenes by Palladium-Catalyzed Cross-Coupling of Propargyl Esters with Heteroaromatic Zinc Reagents (Coll. Sci. Eng., Aoyama Gakuin Univ.) HASHIMOTO, Toru; TOMITA, Naoki; ○TSUYUKI, Ami; TAKEUCHI, Ryo
- 1E4-12** Development of a Highly Active Pd/Cu Bimetallic Catalyst for Suzuki-Miyaura Reactions (Fac. Eng., Niigata Univ.; Grad. Sch. Sci. and Technol., Niigata Univ.) HOSHI, Takashi; ○SHISHIDO, Yuka; SUZUKI, Toshio; HAGIWARA, Hisahiro
- 1E4-13** Palladium-Catalyzed Efficient Electrophilic Allylation of Amine with Allyl Alcohol by Using Phosphine-Borane Ligand (Grad. Sch. Eng., Nagasaki Univ.) ○KUMAGAE, Hidenobu; HIRATA, Goki; ONODERA, Gen; KIMURA, Masanari
- 1E4-14** Synthesis of Nitrogen-Containing Heterocyclic Compounds via Oxidation of Alcohols Catalyzed by Palladium Complex (Grad. Sch. Eng., Nagasaki Univ.) ○ISHII, Chihiro; MORI, Takamichi; MUKAI, Asuka; ONODERA, Gen; KIMURA, Masanari
- 1E4-15** C-H bond selective direct arylation of 2-bromo-*N*-methylimidazole (Fac. Eng., Gifu Univ.) ○YOKOE, Yuma; YAMAUCHI, Takayuki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki

Chair: YORIMITSU, Hideki (11 : 40~12 : 30)

- * 11:30-11:40: interval for laptop PC connection.(1E4-17, 1E4-19, 1E4-21)
- 1E4-17[#]** Copolymerization of Propylene and Polar Monomers by Palladium/Imidazoquinoline Catalysts (Grad. Sch. Eng., The Univ. of Tokyo) ○NAKANO, Ryo; NOZAKI, Kyoko
- 1E4-19[#]** Palladium-Catalyzed C(sp²)-C(sp³) Coupling Reaction between Arenes and Oxiranes via C-H Bond Activation (The Univ. of Tokyo ERATO-JST) ○WANG, Zhen; KUNINOBU, Yoichiro; KANAI, Motomu
- 1E4-21** Allylic Arylation Reaction with a Highly Active NNC-Pincer Palladium Complex Catalyst (IMS; Sch. Physical Sci., SOKENDAI) ○HAMASAKA, Go; SAKURAI, Fumie; UOZUMI, Yasuhiro

Thursday, March 26, PM

Chair: IWASAWA, Nobuharu (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(1E4-29)
- 1E4-29** CSJ Award for Creative Works Carbon-Fluorine Bond Activation by Using the Properties of Fluorine Substituent (Univ. of Tsukuba Division of Chemistry, Faculty of Pure and Applied Sciences) ○ICHIKAWA, Junji
- Chair: KUNIYASU, Hitoshi (14 : 50~15 : 50)
- * 14:40-14:50: interval for laptop PC connection.(1E4-36, 1E4-38, 1E4-40)
- 1E4-36[#]** The Concise Synthesis of Unsymmetric Triarylacetonitriles via Pd-Catalyzed Sequential Arylation (WPI-ITbM, Nagoya Univ.) ○NAMBO, Masakazu; YAR, Muhammad; SMITH, Joel D.; CRUDDEN, Cathleen M.
- 1E4-38[#]** Ethylene/polar monomer copolymerization by bisphosphinemonoxide-palladium complexes: Effect of substituents and mechanistic investigation (Grad. Sch. Eng., The Univ. of Tokyo) ○MITSUSHIGE, Yusuke; CARROW, Brad P.; ITO, Shingo; NOZAKI, Kyoko
- 1E4-40[#]** Palladium-catalyzed direct arylation of thiocarbonylated heteroarenes (Fac. Eng., Gifu Univ.) ○YAMAUCHI, Takayuki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki

Cu

Chair: OSAKO, Takao (16 : 00~17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(1E4-43, 1E4-44, 1E4-45, 1E4-46, 1E4-47, 1E4-48)
- 1E4-43** Regioselective [3+2] cyclization as a key reaction for the synthesis of asymmetric aryl furans (Grad. Sch. Sci. Eng., Yamaguchi Univ.) ○ISHIKAWA, Shingo; NODA, Yushi; FUJIMOTO, Ryo; NISHIKATA, Takashi
- 1E4-44** Copper-Catalyzed Formal Allylic C-H Carboxylation with Carbon Dioxide through Deprotonative Alumination (RIKEN CSRS) ○UENO, Atsushi; TAKIMOTO, Masanori; HOU, Zhaomin
- 1E4-45[#]** Highly Regioselective Alkylative Carboxylation of Allenamide with CO₂ and Dialkylzinc Reagents Catalyzed by NHC-Copper Complex (Grad. Sch. Sci., Eng., Saitama Univ.; RIKEN Organometallic Chemistry Laboratory;

RIKEN CSRS) ○GHOLAP, Sandeep Suryabhan; TAKIMOTO, Masanori; HOU, Zhaomin

1E4-46 Cu-catalyzed Perfluoroarylation of 1,3-Butadiene (Grad. Sch. Eng., Osaka Univ.) ○OKAMOTO, Kanako; IWASAKI, Takanori; KUNIYASU, Hitoshi; KAMBE, Nobuaki

1E4-47 Copper catalyzed Z-selective alkylation of styrenes (Grad. Sch. Sci. Eng., Yamaguchi Univ.) ○NAKAMURA, Kimiaki; INOUE, Yuki; ISHIKAWA, Shingo; NISHIKATA, Takashi

1E4-48 Judicious choice of amines enables switching reaction pathways of carboamidation and olefination with haloamides catalyzed by a copper salt (Grad. Sch. Sci. Eng., Yamaguchi Univ.) ○ITONAGA, Kohei; YAMAGUCHI, Norihiro; ISHIKAWA, Shingo; NISHIKATA, Takashi

Chair: IWASAKI, Takanori (17 : 10~18 : 00)

* 17:00-17:10: interval for laptop PC connection.(1E4-50, 1E4-51, 1E4-52, 1E4-53, 1E4-54)

1E4-50 Copper catalyzed [2+1] and [3+2] cycloaddition reactions of 2-bromocarbonyl compounds and styrenes (Grad. Sch. Sci. Eng., Yamaguchi Univ.) ○NODA, Yushi; FUJIMOTO, Ryo; WADA, Masaru; ISHIKAWA, Shingo; NISHIKATA, Takashi

1E4-51 Construction of Chiral All-Carbon Quaternary Stereocentres Based on Enantioselective Propargylic Substitution Reaction of Propargylic Esters with Indoles (Grad. Sch. Eng., The Univ. of Tokyo) ○TSUCHIDA, Kohei; SENDA, Yasushi; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

1E4-52 Grignard/Ce/Cu Trimetallic Reagent-mediated Preparation of Nitrones from Nitro Compounds (Grad. Sch. Biosci. Biotech., Tokyo Tech) TATSUMI, Yuta; ○TANAKA, Naomi; HATA, Takeshi; URABE, Hirokazu

1E4-53 Cu/Phosphoramidite-Catalyzed Asymmetric Insertion of Carbenoids into Alkyne C-H Bonds (IMS Department of Life and Coordination-Complex Molecular Scienc) ○NAGAOSA, Makoto; OSAKO, Takao; UOZUMI, Yasuhiro

1E4-54 Synthesis of Fluorine-Substituted Five-Membered Silyl Enol Ethers via Cu-Catalyzed Introduction of Difluoromethylene Group (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○HU, Ji; FUCHIBE, Kohei; ICHIKAWA, Junji

Friday, March 27, AM

Pt

Chair: AIKAWA, Kohsuke (9 : 40 ~10 : 30)

* 9:30-9:40: interval for laptop PC connection.(2E4-05, 2E4-06, 2E4-07, 2E4-08, 2E4-09)

2E4-05 Platinum-Catalyzed Alkenylation of Acetals with Alkenylsilanes (Grad. Sch. Sci., Eng., Saitama Univ.) ○FUKUDA, Daiki; KINOSHITA, Hidenori; MIURA, Katsukiyo

2E4-06[#] Development of Catalytic Reactions Using Zwitterionic Platinum (II) Complexes Prepared from Alkyne-containing Bisphosphine Ligands (Grad. Sch. Eng., Kyoto Univ.) OKAMOTO, Kazuhiro; ○FUNASAKA, Satoshi; OHE, Kouichi

Au

2E4-07 Gold-Catalyzed Skeletal Rearrangement of *O*-Propargylic Formaldoximes via Intermolecular Methylene Group Transfer (Grad. Sch. Sci., Tohoku Univ.) ○GIMA, Shinya; NAKAMURA, Itaru; TERADA, Masahiro

2E4-08 Au₂₅(PET)₁₈ catalyzed reaction of Aldehyde, Amine, and Alkyne (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○ADACHI, Yurina; KAWASAKI, Hideya; OBORA, Yasushi

2E4-09 Catalytic Asymmetric Dearomatization of 1-Aminonaphthalene Derivatives Using Electron-Rich Heterocycles as Nucleophiles (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Sci., Eng., Tokyo Tech; JST ACT-C) ○BABA, Takafumi; OKA, Junko; TANAKA, Ken

Chair: OKAMOTO, Kazuhiro (10 : 40~11 : 30)

* 10:30-10:40: interval for laptop PC connection.(2E4-11, 2E4-12, 2E4-13, 2E4-14, 2E4-15)

2E4-11 Catalytic asymmetric [4+2] cycloaddition reaction using chiral Au complexes and its mechanistic analysis (Grad. Sch. Sci., Eng., Tokyo Tech) ○NANKO, Masaki; AIKAWA, Kohsuke; ITO, Shigekazu; MIKAMI, Koichi

2E4-12 Development of catalytic asymmetric reactions by Au complex bearing novel chirally flexible diphosphine ligands (Grad. Sch. Sci., Eng., Tokyo Tech) ○MISHIMA, Katsuyuki; AIKAWA, Kohsuke; ITO, Shigekazu; MIKAMI, Koichi

Ag

2E4-13 Chiral Ag(I) Complex-Catalyzed Asymmetric 1,4-Conjugate Addition of Pyrrolone Ester to Nitroalkene (Fac. Sci. Eng., Chuo Univ.) ○KOIZUMI, Akihiro; KIMURA, Midori; ARAI, Yuri; TOKORO, Yuichiro; FUKUZAWA, Shin-ichi

2E4-14 Silver-Catalyzed Sequential Allylation Reaction via Vinylcarbenoid Intermediate from Cyclopropenes (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○NAKANO, Takeo; ENDOU, Kouhei; UKAJI, Yutaka

Cu

2E4-15[#] Copper-mediated Transfer Annulation for Construction of 5,10-Dihydroindolo[3,2-b]indoles (WPI-AIMR, Tohoku Univ.) ○HO, Hon Eong; ASAO, Naoki; YAMAMOTO, Yoshinori; JIN, Tienan

Chair: ITO, Shigekazu (11 : 40~12 : 30)

* 11:30-11:40: interval for laptop PC connection.(2E4-17, 2E4-19, 2E4-20)

2E4-17^{*} Enantioselective Copper-Catalyzed Azide-Alkyne Cycloaddition (IMS) ○OSAKO, Takao; UOZUMI, Yasuhiro

2E4-19 Copper(I)-Catalyzed Regio- and Enantioselective Borylative Dearomatization of Indoles (Sch. Eng., Hokkaido Univ.) ○HAYAMA, Keiichi; KUBOTA, Koji; YAMAMOTO, Eiji; ITO, Hajime

2E4-20[#] Copper(I)-Catalyzed Enantioselective Nucleophilic Borylation of Aldehydes (Grad. Sch. Chi. Sci. and Eng., Hokkaido Univ.) ○KUBOTA, Koji; YAMAMOTO, Eiji; ITO, Hajime

Friday, March 27, PM

Chair: ITO, Hajime (13 : 40~14 : 40)

* 13:30-13:40: interval for laptop PC connection.(2E4-29, 2E4-32, 2E4-33, 2E4-34)

2E4-29 CSJ Award for Young Chemists Neighboring Electrophilic Activation of Active Center for Development of Catalytic Reactions via Organometallic Intermediates (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○ENDO, Kouhei

2E4-32 Synthesis of N-Heterocycles by Copper-Catalyzed Intramolecular C-H/N-H Coupling (Grad. Sch. Eng., Osaka Univ.) ○TAKAMATSU, Kazutaka; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro

2E4-33 Acridine Synthesis via Copper-Mediated Dehydrogenative Cyclization of Tritylamines (Osaka Univ. Graduate School of Engineering) ○MORIYOKA, Ryosuke; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro

2E4-34 Development of Electrophilic Amination using *N*-Methoxyamines toward a Multistep Synthesis (Fac. Sci. Tech., Keio Univ.) ○FUKAMI, Yutaro; MEGURO, Tatsuhiko; WADA, Takamasa; SATO, Takaaki; CHIDA, Noritaka

Chair: HIRANO, Koji (14 : 50~15 : 50)

* 14:40-14:50: interval for laptop PC connection.(2E4-36, 2E4-37, 2E4-38, 2E4-39, 2E4-40, 2E4-41)

2E4-36 Copper-catalyzed Odorless Thiolation of Aryl Boronic Acids using Thiosulfonates (IBB, Tokyo Med. and Dental Univ.; Tokyo Med. and Dental Univ. Med. Res. Inst.) ○SUGIMURA, Yasuyuki; YOSHIDA, Suguru; SHIMIZU, Shigeomi; HOSOYA, Takamitsu

2E4-37 Protection and Deprotection Methods of Strained Alkynes and Application to the Synthesis of Functionalized Cycloalkynes (IBB, Tokyo Med. and Dental Univ.; Grad. Sch. Sci., Eng., Tokyo Tech) ○HATAKEYAMA, Yasutomo; YOSHIDA, Suguru; JOHMOTO, Kohji; UEKUSA, Hidehiro; HOSOYA, Takamitsu

2E4-38 Catalytic C-H imidation of aromatic core of functional molecules(1) (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○MURAKAMI, Kei; KAWAKAMI, Takahiro; ITAMI, Kenichiro

2E4-39 Catalytic C-H imidation of aromatic core of functional molecules(2) (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○KAWAKAMI, Takahiro; MURAKAMI, Kei; ITAMI, Kenichiro

2E4-40 N-arylation reaction Catalyzed by DMF-protected Copper Nanoparticles (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○KITAI, Katsuya; OBORA, Yasushi

2E4-41[#] Rapid Synthesis of Sialic Acid Derivatives *via* Ligand-Controlled, Stereodivergent Propagylolation of Unprotected Aldoses (Grad. Sch. Pharm., The Univ. of Tokyo) ○WEI, Xiaofeng; SHIMIZU, Yohei; KANAI, Motomu

Pd

Chair: MURAKAMI, Kei (16 : 00~17 : 00)

* 15:50-16:00: interval for laptop PC connection.(2E4-43, 2E4-45, 2E4-46, 2E4-47, 2E4-48)

2E4-43[#] Enantioselective Synthesis of α -Quaternary Mannich Adducts by Palladium-Catalyzed Allylic Alkylation (Caltech Division of Chemistry & Chemical Engineering) ○NUMAJIRI, Yoshitaka; PRITCHETT P, Beau; CHIYODA, Koji; STOLTZ M, Brian

2E4-45 Palladium-Catalyzed Cross-Coupling Reaction of Diarylmethyl Carbonates and Terminal Alkynes (Grad. Sch. Eng., Osaka Univ.) ○TABUCHI, Sho; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro

2E4-46[#] Preparation of Arenylmethylzinc Reagent from Iodoarene by Pd/Ni-Catalyzed Cross-Coupling Reaction (Sch. Eng., Kyoto Univ.) ○SHIMADA, Yukako; MATSUBARA, Seiji

2E4-47 The oxidative addition of fluorinated alkenyl chlorides to palladium(0) complexes and its catalytic application to Suzuki-Miyaura coupling (Sagami Chemical Research Institute) ○MIZUNO, Masataka; YAMAMOTO, Tetsuya; YAMAKAWA, Tetsu

2E4-48 NHC-palladacycle catalyzed addition of arylboronic acid derivatives to carbonyl compounds (Sagami Chemical Research Institute) ○ANJO,

Kaori; YAMAMOTO, Tetsuya; YAMAKAWA, Tetsu

Chair: ASANO, Keisuke (17 : 10~18 : 10)

- * 17:00-17:10: interval for laptop PC connection.(2E4-50, 2E4-51, 2E4-52, 2E4-53, 2E4-54, 2E4-55)
- 2E4-50** Pd-catalyzed addition reaction of aromatic thioester to norbornene derivatives (Grad. Sch. Pharm. Sci., Tohoku Univ.) ARISAWA, Mieko; ○TANII, Saori; YAMAGUCHI, Masahiko
- 2E4-51** Synthesis of 1,4-dithiin derivatives using rhodium-catalyzed sulfur addition reaction to cycloalkynes (Grad. Sch. Pharm. Sci., Tohoku Univ.) ARISAWA, Mieko; ○ICHIKAWA, Takuya; YAMAGUCHI, Masahiko
- 2E4-52** Rhodium-catalyzed Aryl Exchange Reaction of Pentaphenylcyclopentaphosphine and Aryl Sulfides (Grad. Sch. Pharm. Sci., Tohoku Univ.) ARISAWA, Mieko; ○TAKAHASHI, Kazuya; YAMAGUCHI, Masahiko
- 2E4-53** Development of novel catalytic enantioselective 1,2-addition reactions of acetylene compounds and fluoromethylpyruvate (Grad. Sch. Sci., Eng., Tokyo Tech) ○KONDO, Daisuke; YOSHIDA, Seiya; HONDA, Kazuya; AIKAWA, Kohsuke; MIKAMI, Koichi
- 2E4-54** Development of chiral Pd-catalyzed enantioselective 1,3-dipolar cycloaddition of ynone dipolarophiles (Grad. Sch. Sci., Eng., Tokyo Tech) ○HONDA, Kazuya; AIKAWA, Kohsuke; MIKAMI, Koichi
- 2E4-55** Palladium-Catalyzed Annulation of Alkynyl Ferrocenyl Ethers with Internal Alkynes via C-H Bond Activation (Grad. Sch. Sci. Eng., Chuo Univ.) ○MITSUI, Takashi; TOKORO, Yuichiro; HIYAMA, Tamejiro; FUKUZAWA, Shin-ichi

Saturday, March 28, AM

Cu

Chair: TAKAYA, Jun (9 : 10 ~ 10 : 10)

- * 9:00-9:10: interval for laptop PC connection.(3E4-02, 3E4-03, 3E4-04, 3E4-05, 3E4-06, 3E4-07)
- 3E4-02[#]** Construction of quaternary stereogenic carbon centers through copper-catalyzed enantioselective direct allylic alkylation of heteroarenes (Fac. Sci., Hokkaido Univ.) ○ZHANG, Heng; HARADA, Ayumi; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 3E4-03** Copper(I)-catalyzed hydrogenation of alkynes with molecular hydrogen (Fac. Sci., Hokkaido Univ.) ○TAKAMICHI, Wakamatsu; HIROHISA, Ohmiya; MASAYA, Sawamura
- 3E4-04** Copper-Catalyzed Semihydrogenation of Internal Alkynes (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○KAMEYAMA, Ryohei; SEMBA, Kazuhiko; NAKAO, Yoshiaki
- 3E4-05** Development of Catalytic Asymmetric Conjugate Addition of Organometallic Reagents to Conjugated Dienes Using Multinuclear Copper Catalysts (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○KOBAYASHI, Tomoki; ENDOU, Kouhei; UKAJI, Yutaka
- 3E4-06** Cu-catalyzed sp^3 coupling reaction with 2-pyridylsulfonyl group (Tokyo Institute of Technology) ○TOJO, Toshifumi; WADA, Kyohei; OGAWA, Narihito; KOBAYASHI, Yuichi
- 3E4-07** Copper-catalyzed Iodocyanation of Alkynes Using Cyanogen Iodide (Grad. Sch. Eng., Kyoto Univ.) ○SAKATA, Naoki; OKAMOTO, Kazuhiro; OHE, Kouichi

Chair: OKAMOTO, Kazuhiro (10 : 20~11 : 20)

- * 10:10-10:20: interval for laptop PC connection.(3E4-09, 3E4-10, 3E4-11, 3E4-12, 3E4-13, 3E4-14)
- 3E4-09** Copper-Catalyzed Coupling of Disulfides with Sodium Sulfonates (Sch. of Med., Fukushima Med. Univ.) ○TANIGUCHI, Nobukazu

Pd

- 3E4-10** Synthesis of Unsymmetrical Diborons through PSiP-Pincer Palladium Complex Catalyzed Boron Exchange Reaction (Grad. Sch. Sci., Eng., Tokyo Tech) ○MIURA, Norio; ITO, Tatsuyoshi; KIRAI, Naohiro; TAKAYA, Jun; IWASAWA, Nobuharu
- 3E4-11** Direct C-Allylation of 1,3,5-Trihydroxybenzene with Allyl Alcohol Activated by Palladium Catalyst and Triethylborane (Grad. Sch. Eng., Nagasaki Univ.) ○MIYAHARA, Yuhei; HIRATA, Goki; ONODERA, Gen; KIMURA, Masanari
- 3E4-12** Arylboration of Alkynes by Cooperative Palladium/Copper Catalysis (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○SEMBA, Kazuhiko; YOSHIZAWA, Megumi; NAKAO, Yoshiaki
- 3E4-13** Hydrocarboxylation of Alkenes Catalyzed by PGEp-Pincer Type Palladium Complexes using Formate Salt as a Reductant and a CO₂ Source (Grad. Sch. Sci., Eng., Tokyo Tech) ○MIYAMA, Ko; TAKAYA, Jun; IWASAWA, Nobuharu
- 3E4-14** Mechanistic Study on Palladium/*o*-Chloranil-Catalyzed C-H Arylation of Polycyclic Aromatic Hydrocarbon (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○SHIBATA, Mari; ITO, Hideto; ITAMI, Kenichiro

Chair: SEMBA, Kazuhiko (11 : 30~12 : 30)

- * 11:20-11:30: interval for laptop PC connection.(3E4-16, 3E4-17, 3E4-18, 3E4-19, 3E4-20, 3E4-21)

- 3E4-16** Palladium-catalyzed Direct C-H Arylation of Arenes with Aryl Sulfides (Grad. Sch. Sci., Kyoto Univ.) ○OTSUKA, Shinya; YORIMITSU, Hideki; OSUKA, Atsuhiko
- 3E4-17** Palladium-catalyzed Direct Arylation of 2-Furaldehyde (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○SATO, Shun; MINAKAWA, Maki; KAWATSURA, Motoi
- 3E4-18** Palladium-catalyzed Side Chain C(α) Allylic Alkylation of 2-Alkylpyridines (Fac. Sci., Hokkaido Univ.) ○MURAKAMI, Ryo; IWAI, Tomohiro; SAWAMURA, Masaya
- 3E4-19** Phenanthroline-palladium catalyzed olefin isomerization via chain walking. (Grad. Sch. Sci. Tech., Keio Univ.) ○YAMASAKI, Yuya; KAKIUCHI, Fumitoshi; KOCHI, Takuya
- 3E4-20** Key mechanistic details of Palladium(II) catalyzed C-H functionalization/intramolecular C-S bond formation in thiobenzanilide: A GRRM/AFIR study (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.; Emory University Cherry L. Emerson Center for Scientific Computation) ○UEMATSU, Ryohei; MAEDA, Satoshi; MUSAEV, Djmaladdin G.; TAKETSUGU, Tetsuya
- 3E4-21** Catalytic Asymmetric Synthesis of Axially Chiral Biaryls by the Enantioselective C-H Olefination (Grad. Sch. Sci., Osaka Pref. Univ.) ○YASUDA, Rie; KAMIKAWA, Ken

Saturday, March 28, PM

Chair: OHMIYA, Hirohisa (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(3E4-29, 3E4-32, 3E4-33, 3E4-34)
- 3E4-29** Young Scholar Lectures of CSJ New Trends in Enantioselective Reactions Promoted by a Pd(II) Catalyst (ISIR, Osaka Univ.) ○TAKENAKA, Kazuhiro
- 3E4-32[#]** Enantioselective synthesis of chiral spiro compounds and their applications to organocatalysis (ISIR, Osaka Univ.) ○TAKEUCHI, Yoshiki; FAN, Lulu; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 3E4-33** Terminal-selective introduction of oxygen functional group to terminal alkenes by palladium catalysts using H₂O as nucleophilic agent (Fac. Sci., Kyushu Univ.) ○MANTANI, Kohei; ISHIDA, Sayuri; TOMITA, Ren; ISHIDA, Tamao; HAMASAKI, Akiyuki; TOKUNAGA, Makoto
- 3E4-34[#]** Divergent Synthesis of SPRIX Ligands Having Oxygen Functionalities (ISIR, Osaka Univ.) ○LIN, Xianjin; TAKENAKA, Kazuhiro; SASAI, Hiroaki

Sunday, March 29, AM

Li

Chair: HORINO, Yoshikazu (9 : 40 ~ 10 : 40)

- * 9:30-9:40: interval for laptop PC connection.(4E4-05, 4E4-07, 4E4-08, 4E4-09, 4E4-10)
- 4E4-05[#]** Substitution of Allylic Phosphates with Diarylmethyl Anions (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○KAWASHIMA, Hidehisa; SAEKI, Ryohei; OGAWA, Narihito; KOBAYASHI, Yuichi
- 4E4-07** Asymmetric Synthesis of Multi-substituted Triptycenes via Enantioselective Alkynylation of Dibromoanthraquinone (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○KAMIMURA, Yuri; SHIBATA, Takanori
- 4E4-08** Synthesis of a New Bulky Piperidine Analogue and Applications to Metal Amide Bases (Grad. Sch. Sci., Hiroshima Univ.) ○MORISAKO, Shogo; YAMAMOTO, Yohsuke

Mg

- 4E4-09** Application of CPME as a solvent for Grignard reactions (OIT Graduate School of Engineering) ○SHIBUKAWA, Keisuke; MASUYAMA, Araki; KOBAYASHI, Shoji

Pd

- 4E4-10** Palladium-Catalyzed Asymmetric Allylic Alkylation of Indoles Using Axially Chiral Ligands with Cinnamyl Group (Grad. Sch. Eng., Chiba Univ.) MINO, Takashi; ○ASANO, Moeko; EBISAWA, Toshibumi; NISHIKAWA, Kenji; SAKAMOTO, Masami

Chair: MINAKAWA, Maki (10 : 50~11 : 40)

- * 10:40-10:50: interval for laptop PC connection.(4E4-12, 4E4-13, 4E4-14, 4E4-15, 4E4-16)
- 4E4-12** Palladium-Catalyzed Three-Component Reaction of 3-(Tributylstannyl)allyl Acetates, Aldehydes, and Organoboranes (Fac. Eng., Univ. of Toyama) ○SUGATA, Miki; HORINO, Yoshikazu; ABE, Hitoshi
- 4E4-13** Palladium-Catalyzed Cross-Coupling of Acyl Halides with Organosilicon Compounds Leading to Diaryl Ketones (Grad. Sch. Fac. Sci. Technol., Tokyo Univ. of Sci.) ○MAEGAWA, Yuki; OGIWARA, Yohei; SAKAI, Norio
- 4E4-14** Palladium-Catalyzed Silylative Ring-Opening of Alkenylepoxides with Hexamethyldisilane (Grad. Sch. Sci., Eng., Saitama Univ.) ○OOTA, Kazuki; KINOSHITA, Hidenori; MIURA, Katsukiyo

- 4E4-15** Palladium-Catalyzed Multi-Component Reaction of 3-(Tributylstannyl)propargyl Acetates, Aldehydes, and Organoboranes (Fac. Eng., Univ. of Toyama) ○AIMONO, Ataru; HORINO, Yoshikazu; ABE, Hitoshi
- 4E4-16** Pd/light-induced Radical Vinylolation of Alkyl Iodides (Grad. Sch. Sci., Osaka Pref. Univ.) ○SUMINO, Shuhei; RYU, Ilhyong

Chair: OGIWARA, Yohei (11 : 50~12 : 40)

- * 11:40-11:50: interval for laptop PC connection.(4E4-18, 4E4-19, 4E4-20, 4E4-21, 4E4-22)
- 4E4-18** (Aminomethyl)silylboronic Ester: A Synthetic Equivalent of Silene under Palladium-Catalyzed Conditions (Grad. Sch. Eng., Kyoto Univ.) OHMURA, Toshimichi; ○NISHIURA, Hiroki; SUGINOME, Michinori
- 4E4-19** Efficient Synthesis of 3-Aryloxindoles Utilizing [1,2]-Phospha-Brook Rearrangement and Palladium-Catalyzed Cross-Coupling Reaction (Grad. Sch. Sci., Tohoku Univ.) ○TAKEI, Akira; KONDOH, Azusa; TERADA, Masahiro
- 4E4-20** Synthesis of Benzofuran derivatives by the palladium-catalyzed reaction of 2-haloallyl esters with phenols (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○UDAGAWA, Takumi; WATANABE, Hirotaka; MINAKAWA, Maki; KAWATSURA, Motoi
- 4E4-21[#]** Enantioselective Synthesis of Axially Chiral Biaryls Bearing an Ester Group via Asymmetric Suzuki-Miyaura Coupling Using Helically Chiral Polymer Ligand PQXphos (Grad. Sch. Eng., Kyoto Univ.) ○AKAI, Yuto; KONNERT, Laure; YAMAMOTO, Takeshi; SUGINOME, Michinori
- 4E4-22[#]** Palladium-catalyzed Intramolecular Alkene Insertion into Carbon-Nitrogen Bonds of β -Lactams (Grad. Sch. Eng., Kyoto Univ.) ○OKAJIMA, Satoshi; YADA, Akira; MURAKAMI, Masahiro

Room E5

Bldg.10 1042

Organic Chemistry -Reaction and Synthesis- Organometallic Compounds

Thursday, March 26, AM

Ir

Chair: SEMBA, Kazuhiko (9 : 40 ~10 : 30)

- * 9:30-9:40: interval for laptop PC connection.(1E5-05, 1E5-06, 1E5-07, 1E5-08, 1E5-09)
- 1E5-05** Iridium-Catalyzed Annulation of 2-Arylbenzoic Acids and Alkynes (Osaka Univ. Graduate School of Engineering) ○NAGATA, Tomoya; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro
- 1E5-06** Iridium-Catalyzed Regioselective C-H Silylation Controlled by Lewis Acid-Base Interaction (Grad. Sch. Pharm., The Univ. of Tokyo) ○WAKAKI, Takayuki; KANAI, Motomu; KUNINOBU, Yoichiro
- 1E5-07** Asymmetric Transfer Hydrogenation Catalyzed by New Chiral Bicyclic NHC/Ir Complexes (Grad. Sch. Sci., Chiba Univ.) ○KAMIMURA, Takumi; KUWABARA, Hiroshi; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 1E5-08** Asymmetric Hydrogenation of Quinazolinium Salts Catalyzed by Dinuclear Iridium (III) Complex Bearing Chiral Diphosphine Ligand (Grad. Sch. Eng. Sci., Osaka Univ.) ○HIGASHIDA, Kosuke; IIMURO, Atsuhiro; KITA, Yusuke; MASHIMA, Kazushi
- 1E5-09** Hydrogen Bond-Controlled meta-Selective C-H Borylation of Aromatic Compounds (The Univ. of Tokyo Graduate School of Pharmaceutical Sciences, ERATO-JST) ○NISHI, Mitsumi; IDA, Haruka; KUNINOBU, Yoichiro; KANAI, Motomu

Chair: HIRANO, Koji (10 : 40~11 : 30)

- * 10:30-10:40: interval for laptop PC connection.(1E5-11, 1E5-12, 1E5-13, 1E5-14, 1E5-15)
- 1E5-11** Iridium-catalyzed enantioselective [3 + 2] annulation of α -oxocarboxamides with 1,3-dienes (Grad. Sch. Sci., Kyoto Univ.) ○HATANO, Miyuki; NISHIMURA, Takahiro
- 1E5-12[#]** A Simple One-Pot Procedure for N-Formylation and N-Methylation of Amines via Room-Temperature Hydrosilylation of CO₂ Catalyzed by a PNP-pincer Type Phosphaalkene Iridium(I) Complex (ICR, Kyoto Univ.) ○CHANG, Yung-hung; SASAKI, Daichi; TAGUCHI, Hiroomi; TAKEUCHI, Katsuhiko; OZAWA, Fumiyuki
- 1E5-13** Highly Stereoselective Synthesis of Tetrasubstituted CF₃ Alkenes from Alkynes by Photoredox Catalysis (Chem. Res. Lab., Tokyo Tech) ○TOMITA, Ren; KOIKE, Takashi; AKITA, Munetaka
- 1E5-14[#]** Ir-Catalyzed *ortho*-C-H Borylation of Arylboronic Acids Masked by Removable Directing Group on the Boron Atom (Grad. Sch. Eng., Kyoto Univ.) ○ISHIBASHI, Aoi; YAMAMOTO, Takeshi; SUGINOME, Michinori
- 1E5-15** Direct Synthesis of Dithienosiloles by Iridium-Catalyzed Dehydrogenative Cyclization (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○ISOBUCHI, Ryota; MITSUDO, Koichi; SUGA, Seiji

Chair: KITA, Yusuke (11 : 40~12 : 30)

- * 11:30-11:40: interval for laptop PC connection.(1E5-17, 1E5-18, 1E5-19, 1E5-20, 1E5-21)
- 1E5-17** Synthesis of DMF-protected Ir Nanoclusters and Their Use as Catalyst in Methylation with Methanol (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○OIKAWA, Kei; YANO, Hiroki; KAWASAKI, Hideya; OBORA, Yasushi
- 1E5-18** Synthesis of Carboxylic Acids through Dehydrogenation of Primary Alcohols in Water Catalyzed by Iridium Complexes (Kyoto Univ. Graduate School of Human and Environmental Studies) ○TANAKA, Yuhi; YAMAGUCHI, Ryohei; FUJITA, Ken-ichi
- 1E5-19** Dehydrogenation of Polyhydric Alcohols Catalyzed by an Iridium Complex Bearing a Functional Bipyridonate Ligand (Kyoto Univ. Graduate School of Human and Environmental Studies) ○NAGANO, Yuta; YAMAGUCHI, Ryohei; FUJITA, Ken-ichi
- 1E5-20[#]** Selective C-4 Borylation of Pyridine by Iridium/Aluminum Cooperative Catalysis (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○YANG, Lichen; SAITO, Teruhiko; SEMBA, Kazuhiko; NAKAO, Yoshiaki
- 1E5-21** Cationic Iridium-Catalyzed Asymmetric [3 + 2] Annulation of Aromatic Ketimines with Alkynes via C-H Activation (Grad. Sch. Sci., Kyoto Univ.) ○YAMAUCHI, Daisuke; NAGAMOTO, Midori; NISHIMURA, Takahiro

Thursday, March 26, PM

Rh

Chair: OKAMOTO, Kazuhiro (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(1E5-29, 1E5-30, 1E5-31, 1E5-32, 1E5-33, 1E5-34)
- 1E5-29** Rhodium-Catalyzed Direct Alkenylation of Phenylphosphine Sulfides (Osaka Univ. Graduate School of Engineering) ○YOKOYAMA, Yuki; UNOH, Yuto; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro
- 1E5-30** 1,3-Dithiane Directed Aromatic C-H Alkenylation Under Rh(III) Catalysis (Osaka Univ. Graduate School of Engineering) ○UNOH, Yuto; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro
- 1E5-31** Enantioselective Synthesis of 3-Hydroxy-3,4-dihydropyridones by Sequential Action of Light and Rhodium on *N*-allyl- α -oxoamides (Grad. Sch. Eng., Kyoto Univ.) ○MASUDA, Yusuke; NECAS, David; ISHIDA, Naoki; MURAKAMI, Masahiro
- 1E5-32** Rhodium-Catalyzed Synthesis of Multi-substituted Silylindenes via C-H Bond Activation and Their Fluorescence Properties (Grad. Sch. Pharm., The Univ. of Tokyo) ○SUEKI, Shunsuke; KUNINOBU, Yoichiro
- 1E5-33** Rhodium-Catalyzed Asymmetric Hydroformylation of Styrenes with Formaldehyde (Grad. Sch. Mat. Sci., NAIST) MORIMOTO, Tsumoru; ○FUJII, Tetsuji; MIYOSHI, Kota; KAKIUCHI, Kiyomi
- 1E5-34** Asymmetric Hydrogenation of Olefins Catalyzed by Halide-bridged Dinuclear Rhodium(III) Complex Bearing Chiral Diphosphine Ligand. (Grad. Sch. Eng. Sci., Osaka Univ.) ○HIDA, Shoji; KITA, Yusuke; MASHIMA, Kazushi

Chair: KOCHI, Takuya (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(1E5-36, 1E5-37, 1E5-39, 1E5-40, 1E5-41)
- 1E5-36[#]** Rhodium-Catalyzed Cross-Coupling of Aryl Carbamates with Organoboron Reagents via the Cleavage of a Carbon-Oxygen Bond (Grad. Sch. Eng., Osaka Univ.) TOBISU, Mamoru; ○NAKAMURA, Keisuke; CHATANI, Naoto
- 1E5-37[#]** Rhodium-Catalyzed Borylation of Aryl Esters and Ethers through the Cleavage of a Carbon-Oxygen Bond (Grad. Sch. Eng., Osaka Univ.) TOBISU, Mamoru; ○KINUTA, Hirotaka; HASEGAWA, Junya; CHATANI, Naoto

Ni

- 1E5-39[#]** Nickel-Catalyzed Borylation of Aryl 2-Pyridyl Ethers through the Cleavage of a Carbon-Oxygen Bond (Grad. Sch. Eng., Osaka Univ.) TOBISU, Mamoru; ○ZHAO, Jiangning; KINUTA, Hirotaka; CHATANI, Naoto

Rh

- 1E5-40** Rhodium porphyrin catalyzed addition reaction of imine and indole (Grad. Sch. Eng., Kyoto Univ.) ○HASEGAWA, Makoto; KURAHASHI, Takuya; MATSUBARA, Seiji
- 1E5-41** Rhodium-catalyzed ring expansion of 1-vinylbenzocyclobutenols to β -tetralones (Grad. Sch. Eng., Kyoto Univ.) ○ISHIKAWA, Norikazu; SAWANO, Shota; ISHIDA, Naoki; MURAKAMI, Masahiro

Chair: ISHIDA, Naoki (16 : 00~17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(1E5-43, 1E5-45, 1E5-46, 1E5-47, 1E5-48)
- 1E5-43[#]** The Reaction of Aromatic Amides with α, β -Unsaturated Carbonyl Compounds Using a Bidentate Directing Group by a Rhodium Complex (Grad. Sch. Eng., Osaka Univ.) ○SHIBATA, Kaname; CHATANI, Naoto

- 1E5-45** Rhodium-Catalyzed Reaction of Terminal Alkynes with *t*-Butylhydrazines Leading to Nitriles (Grad. Sch. Eng., Osaka Univ.) FUKUMOTO, Yoshiya; OTAMURA, Yuto; CHATANI, Naoto
- 1E5-46** Rhodium-Catalyzed *anti*-Markovnikov Addition of *N,N*-Disubstituted Hydrazines to Terminal Alkynes Leading to Hydrazones (Grad. Sch. Eng., Osaka Univ.) OKAMIYA, Motonobu; FUKUMOTO, Yoshiya; CHATANI, Naoto
- 1E5-47** Catalytic [2+2+2] Cycloaddition for the Synthesis of Multi-substituted Dibenzothiophenes and -phosphole Oxides (Sch. Advanced Sci. Eng., Waseda Univ.) OMATSUBARA, Riku; SATO, Tatsuki; TAHARA, Yu-ki; SHIBATA, Takanori
- 1E5-48** Rhodium-Catalyzed Asymmetric Synthesis of Silicon-Stereogenic Silicon-Bridged Arylpyridinones (Fac. Eng., The Univ. of Tokyo; Fac. Eng., The Univ. of Tokyo) OTAKANO, Ryo; SHINTANI, Ryo; NOZAKI, Kyoko

Chair: TOBISU, Mamoru (17 : 10~18 : 00)

- * 17:00-17:10: interval for laptop PC connection.(1E5-50, 1E5-52, 1E5-53, 1E5-54)
- 1E5-50*** Synthesis of New P-Chiral Phosphine Ligands Using Optically Active Secondary Phosphine-boranes and Their Enantioinduction Ability (NIPPON CHEMICAL INDUSTRIAL CO., LTD. Research and Development division; Grad. Sch. Sci., Chiba Univ.) OHORIUCHI, Yumi; TAMURA, Ken; SUGIYA, Masashi; IMAMOTO, Tsuneo
- 1E5-52** Synthesis and Enantioinduction Ability of One-Hindered Quadrant Diphosphine Ligands (Nippon Chemical Industrial Co., Ltd. Research and Development Division; Grad. Sch. Sci., Chiba Univ.; Grad. Sch. Sci., Tohoku Univ.) OIMAMOTO, Tsuneo; ZHANG, Zhenfeng; TAMURA, Ken; HORIUCHI, Yumi; SUGIYA, Masashi; GRIDNEV, Ilya
- 1E5-53** Rhodium-Catalyzed Introduction of α -Acylalkyl Groups on Arenes with Cyclic Alkenyl Carbonates via C-H Bond Cleavage (Fac. Sci. Tech., Keio Univ.) OHARA, Yusuke; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 1E5-54[#]** Transformation Reactions via Oxidative Addition of Oxime Esters to Rhodium(I) Complexes and C-H Activation (Grad. Sch. Eng., Kyoto Univ.) OSHIMBAYASHI, Takuya; OKAMOTO, Kazuhiro; OHE, Kouichi

Friday, March 27, AM

Ir

Chair: KOIKE, Takashi (9 : 40 ~10 : 30)

- * 9:30-9:40: interval for laptop PC connection.(2E5-05, 2E5-07, 2E5-09)
- 2E5-05**** Iridium-Catalyzed Intermolecular Dehydrogenative Silylation of Polycyclic Aromatic Compounds without Directing Groups (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) OMURAI, Masahito; TAKAMI, Keishi; TAKAI, Kazuhiko
- 2E5-07*** Effects of Salt Formation of Substrates on Ir-catalyzed Asymmetric Hydrogenation of Isoquinolines (Grad. Sch. Eng. Sci., Osaka Univ.) OKITA, Yusuke; YMAJI, Kenta; HIGASHIDA, Kosuke; IIMURO, Atsuhiko; MASHIMA, Kazushi
- 2E5-09** Development of Highly Active Ir(III)-PNP Catalysts for Hydrogenation of Carbon Dioxide with Organic Bases : Electronic Effect of Ligands and Influence of Chloride Ions (Grad. Sch. Eng., The Univ. of Tokyo) OAOKI, Wataru; WATTANAVININ, Natdana; KUSUMOTO, Shuhei; NOZAKI, Kyoko

Chair: MURAI, Masahito (10 : 40~11 : 30)

- * 10:30-10:40: interval for laptop PC connection.(2E5-11, 2E5-12, 2E5-13, 2E5-14, 2E5-15)
- 2E5-11** Ir(I)-Catalyzed C2-Selective C-H Alkylation of Pyridine *N*-Oxides (Sch. Advanced Sci. Eng., Waseda Univ.) OTAKANO, Hideaki; SHIBATA, Takanori
- 2E5-12** Asymmetric Synthesis of γ -Amino Acids Initiated by Enantioselective C-H Bond Cleavage by a Chiral Ir(I)-Catalyst (Sch. Advanced Sci. Eng., Waseda Univ.) OMICHINO, Masamichi; ITO, Mamoru; TAHARA, Yu-ki; SHIBATA, Takanori
- 2E5-13** Synthesis of 3,3-Difluoropropiophenones through Oxidative Difluoromethylation of Styrenes by Photoredox Catalysis (Chem. Res. Lab., Tokyo Tech) OANDO, Gaku; ARAI, Yusuke; KOIKE, Takashi; AKITA, Munetaka
- 2E5-14** Iridium-catalyzed Decarboxylative Ring Contraction of Isoxazole-5 (*4H*)-ones (Grad. Sch. Eng., Kyoto Univ.) OKAMOTO, Kazuhiro; YOSHIDA, Masato; NANYA, Atsushi; SHIMBAYASHI, Takuya; OHE, Kouichi
- 2E5-15** The Synthesis of New Chiral 1,2,3-Triazol-5-ylidene Ligands and Application of Catalytic Asymmetric Transfer Hydrogenation (Fac. Sci. Eng., Chuo Univ.) OTOSAKA, Takuya; MITSUI, Takashi; TOKORO, Yuuichirou; FUKUZAWA, Shin-ichi

Chair: SUGINOME, Michinori (11 : 40~12 : 30)

- * 11:30-11:40: interval for laptop PC connection.(2E5-17, 2E5-18, 2E5-19)
- 2E5-17** Para-selective C-H borylation of benzene derivatives (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) OSAITO, Yutaro; SEGAWA, Yasutomo; ITAMI, Kenichiro
- 2E5-18** Iridium-Catalyzed [2+2+2] Cycloaddition of Biaryl- and Hetero-

biaryl-Linked Dienes (Coll. Sci. Eng., Aoyama Gakuin Univ.) HASHIMOTO, Toru; OHARA, Tomohiro; FUJISAWA, Shunsuke; IZAWA, Mao; TAKEUCHI, Ryo

- 2E5-19** Young Scholar Lectures of CSJ Radical Functionalization of Olefins by Photoredox Catalysis (Chem. Res. Lab., Tokyo Tech) OKOIKE, Takashi

Friday, March 27, PM

Chair: KUSUMOTO, Shuhei (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(2E5-29, 2E5-30, 2E5-31, 2E5-32, 2E5-33, 2E5-34)
- 2E5-29** Functionalization of Methylalkoxysilanes via Iridium-Catalyzed Chemoselective C(sp³)-H Borylation of the Methyl Group on Silicon (Grad. Sch. Eng., Kyoto Univ.) OHMURA, Toshimichi; OSASAKI, Ikuo; TORIGOE, Takeru; SUGINOME, Michinori
- 2E5-30[#]** Highly-Efficient Ir/*t*-BuOK Catalyst for Non-Directed C(sp³)-H Borylation (Grad. Sch. Eng., Kyoto Univ.) OHMURA, Toshimichi; TORIGOE, Takeru; SUGINOME, Michinori
- 2E5-31** Decarbonylation Reaction of Aliphatic Carboxylic Acid Using Cativa Catalyst System (Grad. Sch. Sci., Osaka Pref. Univ.) FUKUYAMA, Takahide; OKANEKO, Masaya; RYU, Ilhyong

Rh

- 2E5-32** Rhodium-Catalyzed Synthesis of Sila[n]helicene Derivatives via the Dehydrogenative Silylation of C(sp²)-H Bonds (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) OKADA, Ryo; MURAI, Masahito; TAKAI, Kazuhiko
- 2E5-33** Acceleration Effects of Phosphine Ligands on the Rhodium-Catalyzed Dehydrogenative Silylation of C(sp³)-H Bonds (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) OMORITA, Haruka; TAKESHIMA, Hirota; KUNINOBU, Yoichiro; MURAI, Masahito; TAKAI, Kazuhiko
- 2E5-34** Enantioselective Synthesis of Aminoindane carboxylic acid derivatives by the Catalytic [2+2+2] Cycloaddition (Sch. Advanced Sci. Eng., Waseda Univ.) OOBINATA, Shuhei; TAHARA, Yu-ki; SHIBATA, Takanori

Chair: FUCHIBE, Kohei (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(2E5-36, 2E5-37, 2E5-38, 2E5-39, 2E5-40, 2E5-41)
- 2E5-36** Catalytic *trans*-Hydroboration of Heteroaromatic Terminal Alkynes (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) OKOBAYASHI, Hikaru; YAMAMOTO, Yasunori
- 2E5-37** Intermolecular Alkyne Cyclotrimerization Route to a Functionalized Cycloparaphenylene (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST; Grad. Sch. Sci., Eng., Tokyo Tech; ACT-C, JST) OMIYAUCHI, Yuta; ITO, Hideto; ITAMI, Kenichiro; TANAKA, Ken
- 2E5-38** Enantioselective Synthesis of the Planar-Chiral Benzosiloloferrrocenes by Rh-Catalyzed Intramolecular C-H silylation (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) OSHIZUNO, Tsubasa; SASAKI, Tomoya; SHIBATA, Takanori
- 2E5-39** Rh-Catalyzed Synthesis of Perinaphthenone Derivatives from 1-Naphthoic Acids and Internal Acetylenes (Grad. Sch. Sci., Osaka Pref. Univ.) HUKYAMA, Takahide; OSUGIMORI, Taiki; RYU, Ilhyong
- 2E5-40** Synthesis of Benzoxasilole Derivatives by Rhodium-Catalyzed [2+2+2] Cycloaddition (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Sci., Eng., Tokyo Tech; JST ACT-C) OOBATA, Ryosuke; MURAYAMA, Koichi; TANAKA, Ken
- 2E5-41** Rhodium-Catalyzed Enantioselective [2+2+2] Cycloaddition of 1,6-Enynes with Cyclopropylideneacetamides (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Sci., Eng., Tokyo Tech; JST ACT-C) ONAKAMURA, Yu; YOSHIDA, Tomoka; MASUTOMI, Koji; TANAKA, Ken

Chair: ITO, Hideto (16 : 00~17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(2E5-43, 2E5-45, 2E5-46, 2E5-47, 2E5-48)
- 2E5-43[#]** Mechanistic Study of Rhodium-Catalyzed Carboxylation of Simple Aromatic Compounds with Carbon Dioxide (Grad. Sch. Sci., Eng., Tokyo Tech) OSUGA, Takuya; TAKAYA, Jun; IWASAWA, Nobuharu
- 2E5-45** Double Annulation of Anilides with Two Alkynoates Catalyzed by an Electron-Deficient Rhodium(III) Catalyst (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Sci., Eng., Tokyo Tech; JST ACT-C) OFUKUI, Miho; HOSHINO, Yuki; TANAKA, Ken
- 2E5-46** Oxidative Annulation of Bezoic Acids with Alkynes Catalyzed by an Electron-Deficient Rhodium(III) Catalyst (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Sci., Eng., Tokyo Tech; JST ACT-C) OYAMAZAKI, Mutsumi; FUKUI, Miho; MIYAUCHI, Yuta; TANAKA, Ken
- 2E5-47** Rhodium-Catalyzed Cross-Dimerization and Trimerization of Allenes with Alkynes (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Sci., Eng., Tokyo Tech; JST ACT-C) OSAKASHITA, Kazuki; TANAKA, Ken
- 2E5-48** Rhodium-catalyzed asymmetric addition of cyclopropylboroxine to aldimines. (Grad. Sch. Sci., Kyoto Univ.) ONAGAI, Tomotaka;

TAKECHI, Ryosuke; EBE, Yusuke; NISHIMURA, Takahiro

Y, Sc, Yb

Chair: SEGAWA, Yasutomo (17 : 10~18 : 00)

- * 17:00-17:10: interval for laptop PC connection.(2E5-50, 2E5-52, 2E5-53, 2E5-54)
- 2E5-50*** Aminoalkylation Reaction of Pyridine Derivatives through C-H Bond Activation by Group 3 Metal Amido Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAGAE, Haruki; SHIBATA, Yu; TSURUGI, Hayato; MASHIMA, Kazushi
- 2E5-52** Direct Alkylation of Benzylic Alcohols with Allylsilanes Catalyzed by Sc(OTf)₃ (Grad. Sch. Eng., Kyoto Univ.; Kyoto Univ. C-PiER; ICR, Kyoto Univ.) KONDO, Teruyuki; ○DI, Yuanjun; KIMURA, Yu; TOSHIMITSU, Akio
- 2E5-53** Synthesis of Benzimidazoles and Benzothiazoles by Rare Earth Metal Catalyzed Condensation of 1,2-Diaminobenzene and 2-Aminobenzenethiol with Ketones (Kyoto Univ. C-PiER; Grad. Sch. Eng., Kyoto Univ.; ICR, Kyoto Univ.) KONDO, Teruyuki; ○NAITO, Shunichi; YOSHIMURA, Tsutomu; KIMURA, Yu; TOSHIMITSU, Akio
- 2E5-54** Synthesis of 4(3*H*)-Quinazolinones by Yb(OTf)₃-Catalyzed Condensation of 2-Aminobenzamides with 1,3-Dicarbonyl Compounds (Grad. Sch. Eng., Kyoto Univ.; Kyoto Univ. C-PiER; ICR, Kyoto Univ.) ○YOSHIMURA, Tsutomu; KIMURA, Yu; TOSHIMITSU, Akio; KONDO, Teruyuki

Saturday, March 28, AM

Ir

Chair: NAKAJIMA, Kazunari (9 : 40 ~ 10 : 30)

- * 9:30-9:40: interval for laptop PC connection.(3E5-05, 3E5-06, 3E5-07, 3E5-08, 3E5-09)
- 3E5-05[#]** Iridium-Catalyzed Hydroarylation of Vinyl Ethers via C-H Bond Activation (Grad. Sch. Sci., Kyoto Univ.) ○EBE, Yusuke; NISHIMURA, Takahiro
- 3E5-06[#]** Iridium-Catalyzed Asymmetric Intramolecular Hydrocarboxylation and Hydroimination of Alkenes (Grad. Sch. Sci., Kyoto Univ.) ○NAGAMOTO, Midori; NISHIMURA, Takahiro
- 3E5-07** Iridium-Catalyzed Regioselective Vinylic C-H Borylation of 2-Cycloalkene-1-one Derivatives. (Sch. Eng., Hokkaido Univ.) ○ENDO, Shun; SASAKI, Ikuo; ITO, Hajime; ISHIYAMA, Tatsuo
- 3E5-08** Iridium-Catalyzed Regioselective C-H Borylation of Heteroaromatic Aldimines Derived from Pentafluoroaniline (Sch. Eng., Hokkaido Univ.) ○IKEDA, Toshiki; AMOU, Tatsunosuke; SASAKI, Ikuo; ITO, Hajime; ISHIYAMA, Tatsuo
- 3E5-09** Iridium-Catalyzed Vinylic C-H Borylation of Acyclic α, β -Unsaturated Carbonyl Compounds with Bis(pinacolato)diboron (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○TAGUCHI, Junpei; SASAKI, Ikuo; DOI, Hana; ITO, Hajime; ISHIYAMA, Tatsuo

Chair: NISHIMURA, Takahiro (10 : 40~11 : 30)

- * 10:30-10:40: interval for laptop PC connection.(3E5-11, 3E5-12, 3E5-13, 3E5-14, 3E5-15)
- 3E5-11** Ir(I)-Catalyzed Enantioselective Intramolecular C-H Alkylation of Indoles at 2-Position (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○RYU, Naoto; TAKANO, Hideaki; SHIBATA, Takanori
- 3E5-12** Iridium-Catalyzed Benzylic C-H Bond Silylation of 4-Methylpyridines with Hydrosilanes (Grad. Sch. Eng., Osaka Univ.) FUKUMOTO, Yoshiya; ○HIRANO, Masaya; CHATANI, Naoto
- 3E5-13** Visible Light-Mediated Aromatic Substitution Reactions via Successive Carbon-Carbon Bond Cleavage of Dihydropyridines and Cyanoarenes (The University of Tokyo Institute of Engineering Innovation, School of Engineering) ○NOJIMA, Sunao; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

Rh

- 3E5-14** Pyrazole as a Removable Directing Group in Rhodium-Catalyzed Carboxylation of Alkenyl C-H Bonds with CO₂ (Sch. Sci., Tokyo Tech) ○SAITOU, Takanobu; MIYAMA, Ko; TAKAYA, Jun; IWASAWA, Nobuharu
- 3E5-15** Synthesis of Planar-Chiral Cyclopentadienyl-Rhodium Complex and Catalytic Application (Grad. Sch. Sci., Osaka Univ.) ○KANBAYASHI, Naoya; OKAMURA, Taka-aki; ONITSUKA, Kiyotaka

Chair: SHIBATA, Takanori (11 : 40~12 : 30)

- * 11:30-11:40: interval for laptop PC connection.(3E5-17, 3E5-18, 3E5-19)
- 3E5-17** Synthesis and Application of Cyclopentadienyl Ligand Bearing a Permethylated Cyclodextrin (Grad. Sch. Eng., Osaka Univ.; Osaka Dent. Univ.) ○YAMAUCHI, Hiroki; TSUDA, Susumu; IWASAKI, Takanori; FUJIWARA, Shin-ichi; KUNIYASU, Hitoshi; KAMBE, Nobuaki
- 3E5-18** Stereoselective Cyclization via C-H Bond Activation α to Nitrogen with a Rhodium Catalyst and Triazoles (Grad. Sch. Biosci. Biotech., Tokyo Tech) SENOO, Masato; ○FURUKAWA, Ayana; HATA, Takeshi;

URABE, Hirokazu

- 3E5-19 CSJ Award for Young Chemists** Studies on Transformations of C-C and C-H Bonds Utilizing Light as the Driving Force (Grad. Sch. Eng., Kyoto Univ.) ○ISHIDA, Naoki

Saturday, March 28, PM

Chair: TAKAYA, Jun (13 : 40~14 : 30)

- * 13:30-13:40: interval for laptop PC connection.(3E5-29, 3E5-30, 3E5-31, 3E5-32, 3E5-33)
- 3E5-29** Preparation of Tetrahydrofurans via C-H Bond Activation α to Oxygen with a Rh Catalyst and Triazoles (Grad. Sch. Biosci. Biotech., Tokyo Tech) SENOO, Masato; FURUKAWA, Ayana; ○WATABE, Kaori; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
- 3E5-30** Rhodium-Catalyzed Transformation Reactions of Isoxazoles Involving N-O Bond Cleavage (Grad. Sch. Eng., Kyoto Univ.) OKAMOTO, Kazuhiro; ○NANYA, Atsushi; OHE, Kouichi
- 3E5-31** One-Pot Synthesis of Substituted Thiazoles Starting from Terminal alkynes (Sch. Eng., Kyoto Univ.) ○NAKASHASHI, Junki; FUNAKOSHI, Yuuta; FUJIMOTO, Yoshikazu; NAKAMURO, Takayuki; MIURA, Tomoya; MURAKAMI, Masahiro
- 3E5-32** Synthesis of Sulfur-Containing Medium-Membered Lactams by Rhodium-Catalyzed Reaction of Triazoles with Thiolactones (Grad. Sch. Eng., Kyoto Univ.) ○FUJIMOTO, Yoshikazu; FUNAKOSHI, Yuuta; MIURA, Tomoya; MURAKAMI, Masahiro
- 3E5-33** Asymmetric Synthesis of Imino-substituted Spiropentanes and Their Thermal Skeletal Rearrangement Constructing *trans*-Cycloalkene Structures (Grad. Sch. Eng., Kyoto Univ.) ○NAKAMURO, Takayuki; LIANG, Chia-jung; MIURA, Tomoya; MURAKAMI, Masahiro

Sunday, March 29, AM

Ti, Ni

Chair: OOHASHI, Masato (9 : 40 ~ 10 : 30)

- * 9:30-9:40: interval for laptop PC connection.(4E5-05, 4E5-07, 4E5-08, 4E5-09)
- 4E5-05*** Halogen Exchange Reaction of Aliphatic Fluorine Compounds with Organic Halides as Halogen Source (CRC, Hokkaido Univ.) ○MIZUKAMI, Yuki; SONG, Zhiyi; TAKAHASHI, Tamotsu
- 4E5-07** Reactions of Unsaturated Titanium Carbene Complexes with Vinylboranes and Vinylsilanes (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) TAKEDA, Takeshi; ○TERAMOTO, Yuzo; INOUE, Yuta; TSUBOUCHI, Akira
- 4E5-08** Synthesis of highly π -conjugated porphyrin metal complexes under mild conditions (Fac. Eng., Utsunomiya Univ.) ○ISHII, Yutaro; OBA, Toru; ITO, Satoshi
- 4E5-09[#]** Nickel-Catalyzed Doublecarboxylation of Alkynes Employing Carbon Dioxide (Grad. Sch. Eng., Kyoto Univ.; FIFC, Kyoto Univ.) ○TANI, Yosuke; HORIMOTO, Yuichiro; MIZOE, Taiga; SAYYED, Bahsha Fareed; FUJIHARA, Tetsuaki; TERAU, Jun; SAKAKI, Shigeoyoshi; TSUJI, Yasushi

Ni, Zn

Chair: FUJIHARA, Tetsuaki (10 : 40~11 : 30)

- * 10:30-10:40: interval for laptop PC connection.(4E5-11, 4E5-12, 4E5-13, 4E5-14)
- 4E5-11[#]** Development of Multifold Cross-linked Polystyrene Bisphosphine Hybrids and Its Application to Nickel-catalyzed Cross-coupling Reactions (Fac. Sci., Hokkaido Univ.) ○HARADA, Tomoya; IWAI, Tomohiro; SAWAMURA, Masaya
- 4E5-12[#]** Nickel-Catalyzed Fluoroarene Synthesis via α -Fluorine Elimination and Its Mechanism (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○WATABE, Yota; ICHITSUKA, Tomohiro; FUJITA, Takeshi; ICHIKAWA, Junji
- 4E5-13** Nickel-Catalyzed Stannylation of Aryl Halides (Grad. Sch. Eng., Hiroshima Univ.) ○ASAKURA, Ryota; KOMEYAMA, Kimihiro; TAKAKI, Ken
- 4E5-14*** Preparation of 1,3-dizinc from bis(iodozincio)methane and allenones. (Grad. Sch. Eng., Kyoto Univ.) ○HARAGUCHI, Ryosuke; MATSUBARA, Seijiro

Zn

Chair: IWAI, Tomohiro (11 : 40~12 : 30)

- * 11:30-11:40: interval for laptop PC connection.(4E5-17, 4E5-18, 4E5-19, 4E5-21)
- 4E5-17** Isolation and Structural Characterization of *gem*-Bis(iodozincio) methane Complexes Stabilized with Nitrogen Ligands (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○HOSOKAWA, Naoki; NISHIDA, Yusuke; MURAI, Masahito; TAKAI, Kazuhiko
- 4E5-18** Regioselective Addition of Benzylzinc Reagents to Pyridines at Their 4-Position (Grad. Sch. Biosci. Biotech., Tokyo Tech) MIZUMORI, Tomoya; ○MITSUI, Takahiro; MIYANAKA, Kento; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu

- 4E5-19*** Synthesis of Trifluorovinyl Zinc Compound from Tetrafluoroethylene (Grad. Sch. Eng., Osaka Univ.) ○KIKUSHIMA, Kotaro; OHASHI, Masato; OGOSHI, Sensuke
- 4E5-21** Selective Synthesis of Indole Derivatives via a Dimetallic Intermediate (Grad. Sch. Sci., The Univ. of Tokyo) ○ISOMURA, Mayuko; YAMAUCHI, Shinichi; ILIES, Laurean; NAKAMURA, Masaharu; NAKAMURA, Eiichi

Room E6

Bldg.10 1043

Organic Chemistry -Reaction and Synthesis- Organometallic Compounds

Thursday, March 26, AM

Ni

Chair: IWASAKI, Takanori (9 : 40 ~ 10 : 30)

- * 9:30-9:40: interval for laptop PC connection.(1E6-05, 1E6-07, 1E6-08, 1E6-09)
- 1E6-05*** Nickel and copper co-catalyzed defluoroborylation of fluoroarenes for expeditious preparation of [¹⁸F]PET probes (RIKEN CLST) ○NIWA, Takashi; OCHIAI, Hidenori; WATANABE, Yasuyoshi; HOSOYA, Takamitsu
- 1E6-07** Practical preparation method and application of benzyne-nickel complex (RIKEN CLST) ○SUMIDA, Tomoe; SUMIDA, Yuto; HOSOYA, Takamitsu
- 1E6-08** Nickel-catalyzed reductive alkylation of aryl triflates (RIKEN CLST) ○SUMIDA, Yuto; SUMIDA, Tomoe; HOSOYA, Takamitsu
- 1E6-09** Synthesis of Optically Active Helicenes via Nickel-Catalyzed Asymmetric Cycloisomerization of Triynes Using Helically Chiral Polymer Ligands (Grad. Sch. Eng., Kyoto Univ.) ○OKITSUKA, Masumi; ADACHI, Takumi; YAMAMOTO, Takeshi; JANCARIK, Andrej; STARÝ, Ivo; STARÁ, I. g.; SUGINOME, Michinori
- Chair: ONODERA, Gen (10 : 40 ~ 11 : 30)
- * 10:30-10:40: interval for laptop PC connection.(1E6-11, 1E6-12, 1E6-13, 1E6-14, 1E6-15)
- 1E6-11** Nickel-catalyzed reaction of perfluoroarenes with 1,3-butadiene through dimerization of 1,3-butadiene (Grad. Sch. Eng., Osaka Univ.) ○MIN, Xin; IWASAKI, Takanori; KUNIYASU, Hitoshi; KAMBE, Nobuaki
- 1E6-12** C-H coupling polymerization with controlled molecular weight leading to poly(3-substituted thiophene)s of high solubility in hexane (Fac. Eng., Kobe Univ.) ○FUJITA, Keisuke; SUMINO, Yugo; MORI, Atsunori
- 1E6-13** C-H coupling polymerization of oligo(thienylenevinylene) (Fac. Eng., Kobe Univ.) ○NAKAGAWA, Naoki; FUKUI, Yuta; TANAKA, Shota; MORI, Atsunori
- 1E6-14** Reactions of Aromatic Amides Using a Bidentate Directing Group by a Nickel Complex (Grad. Sch. Eng., Osaka Univ.) ○YOKOTA, Ayana; CHATANI, Naoto
- 1E6-15** Palladium-Catalyzed Intermolecular Oxidative Coupling between Carbon-Hydrogen Bonds in Aliphatic Amides and Benzyl Carbon-Hydrogen Bonds in Toluene Derivatives. (Grad. Sch. Eng., Osaka Univ.) ○KUBO, Teruhiko; AIHARA, Yoshinori; CHATANI, Naoto
- Chair: SUMIDA, Yuto (11 : 40 ~ 12 : 30)
- * 11:30-11:40: interval for laptop PC connection.(1E6-17, 1E6-18, 1E6-19, 1E6-20, 1E6-21)
- 1E6-17** Nickel-catalyzed Linear-selective Alkylation of Benzene (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○OHGI, Akito; SAITO, Teruhiko; SEMBA, Kazuhiko; NAKAO, Yoshiaki
- 1E6-18** Nickel/Aluminum-catalyzed para-Selective Alkylation of Benzamides (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○OKUMURA, Shogo; SAITO, Teruhiko; SEMBA, Kazuhiko; NAKAO, Yoshiaki
- 1E6-19** Study on the Chemoselectivity of the Ni-Catalyzed Three-Component Coupling Reaction of Conjugated Enyne, Aldehydes, and Organozinc. (Grad. Sch. Eng., Nagasaki Univ.) ○KAWABATA, Toshiki; MORI, Yasuyuki; ONODERA, Gen; KIMURA, Masanari
- 1E6-20** Ni-Catalyzed Hydrocarboxylation of Conjugated Diene with Carbon Dioxide (Grad. Sch. Eng., Nagasaki Univ.) ○OMURA, Ryosuke; MORI, Yasuyuki; ONODERA, Gen; KIMURA, Masanari
- 1E6-21** Ni-Catalyzed Selective Formation of Unsaturated Carboxylic Acids and Phenylacetic Acids via C-C Double Bond Cleavage (Grad. Sch. Eng., Nagasaki Univ.) ○NINKATA, Ryo; MORI, Takamichi; KAWAHARA, Hisahiro; ONODERA, Gen; KIMURA, Masanari

Thursday, March 26, PM

Ru

Chair: SEMBA, Kazuhiko (13 : 40 ~ 14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(1E6-29, 1E6-30, 1E6-31, 1E6-32, 1E6-33)
- 1E6-29** Ruthenium Complex-Controlled Catalytic Addition of Organic Disulfides to Terminal Alkynes (Grad. Sch. Eng., Kyoto Univ.; Kyoto Univ. C-PIER; ICR, Kyoto Univ.) ○SAWASE, Kanae; KIMURA, Yu; TOSHIMITSU, Akio; KONDO, Teruyuki
- 1E6-30** Transition Metal-Catalyzed Olefin Isomerization of Alkenyl Esters (Grad. Sch. Sci., Osaka Pref. Univ.) ○KUWAHARA, Takashi; FUKUYAMA, Takahide; RYU, Ilhyong
- 1E6-31** Ruthenium Hydride-Catalyzed Olefin Isomerization of Homoallyl Silyl Ethers to Allyl Silyl Ethers (Grad. Sch. Sci., Osaka Pref. Univ.) KUWAHARA, Takashi; ○YAMAMOTO, Yuki; FUKUYAMA, Takahide; RYU, Ilhyong
- 1E6-32** Synthesis of Pincer Ru-Complex-Bound Norvaline Peptides (ICR, Kyoto Univ.) ○ITO, Ran; YOSHIDA, Ryota; YOKOI, Tomoya; IWAMOTO, Takahiro; ISOZAKI, Katsuhiko; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 1E6-33*** Ruthenium Complex-Bound Norvaline-Catalyzed Oxidation of Electron-Rich Aromatic Compounds (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○YOSHIDA, Ryota; ISOZAKI, Katsuhiko; YOKOI, Tomoya; ITO, Ran; TAKAYA, Hikaru; NAKAMURA, Masaharu

Chair: TAKAYA, Hikaru (14 : 50 ~ 15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(1E6-36, 1E6-37, 1E6-39, 1E6-41)
- 1E6-36** Synthesis of Polyaromatic Compounds by Ruthenium-Catalyzed Cycloisomerization of *o*-Ethylnylbiaryls (Grad. Sch. Pharm. Sci., Nagoya Univ.) ○MATSUI, Kazuma; SHIBUYA, Masatoshi; YAMAMOTO, Yoshihiko
- 1E6-37*** Synthesis of 2,3-Fused 4-Arylnaphthalen-1-yl Esters Exploiting Hydrocarboxylative Cyclization of 1,8-Diaryl-1,6-dienes (Grad. Sch. Pharm. Sci., Nagoya Univ.) ○MORI, Shota; SHIBUYA, Masatoshi; YAMAMOTO, Yoshihiko
- 1E6-39*** Catalytic Asymmetric Hydrogenation of Salicylic Acids (Grad. Sch. Sci., Kyushu Univ.) ○IKEDA, Ryuhei; KUWANO, Ryoichi
- 1E6-41** Ruthenium-Catalyzed Asymmetric Hydrogenation of Azidoles (Grad. Sch. Sci., Kyushu Univ.) ○SAITA, Masahiro; ISHIZUKA, Kentaro; KUWANO, Ryoichi

Fe

Chair: ITO, Shingo (16 : 00 ~ 17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(1E6-43, 1E6-44, 1E6-45, 1E6-46, 1E6-47, 1E6-48)
- 1E6-43*** Fe-mediated Cyclization of 1,2-Di(9H-fluoren-9-ylidene)-1,2-diarylethanes for Construction of New Dispirocycles (WPI-AIMR, Tohoku Univ.) ○LI, Lingyu; ZHAO, Jian; ONIWA, Kazuaki; ASAO, Naoki; YAMAMOTO, Yoshinori; JIN, Tienan
- 1E6-44** Synthesis of Phosphabenzenes Based on Iron-Catalyzed [2+2+2] Cycloaddition Reaction (The Univ. of Tokyo Institute of Engineering Innovation, School of Engineering) ○TAKATA, Shohei; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 1E6-45** Iron-Catalyzed Selective Addition of Grignard Reagents to Enynoates and Synthetic Studies of Meloscine (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○OHTANI, Keisuke; IWATA, Satoshi; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
- 1E6-46** Iron-Catalyzed Stereoselective 1,6-Addition of Cyclopropyl Grignard Reagent to 2,4-Alkadienoates or -amides (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○SUGANO, Goshi; MIZUNO, Hitomi; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
- 1E6-47** Iron-catalyzed One-pot Stereoselective Synthesis of Cyclohexenes from Grignard Reagents and ω -Halo- $\alpha, \beta, \gamma, \delta$ -unsaturated Esters or Amides (Grad. Sch. Biosci. Biotech., Tokyo Tech) NAKAGAWA, Kazushige; ○NARIAI, Satoru; HATA, Takeshi; URABE, Hirokazu
- 1E6-48** Iron-catalyzed One-pot Stereoselective Synthesis of Cyclopentanes or -hexanes from Grignard Reagents and ω -Halo- $\alpha, \beta, \gamma, \delta$ -unsaturated Esters or Amides (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○NARIAI, Satoru; NAKAGAWA, Kazushige; HATA, Takeshi; URABE, Hirokazu

Chair: SHIGETA, Masayuki (17 : 10 ~ 18 : 00)

- * 17:00-17:10: interval for laptop PC connection.(1E6-50, 1E6-51, 1E6-52, 1E6-53, 1E6-54)
- 1E6-50*** Synthesis and Characterization of Planar-Chiral Benzo[h]phosphorocene Derivatives (CRC, Hokkaido Univ.; Rigaku Corporation Application Laboratory) OGASAWARA, Masamichi; ○ARAE, Sachie; WATANABE, Susumu; SUBBARAYAN, Velusamy; SATO, Hiroyasu; TAKAHASHI, Tamotsu
- 1E6-51** Enantioselective Synthesis of Ferrocene-Fused Planar-Chiral Porpholes (CRC, Hokkaido Univ.; Grad. Sch. Sci., Chiba Univ.)

OGASAWARA, Masamichi; OHU, Hao; WU, Wei-yi; YOSHIDA, Kazuhiro; TAKAHASHI, Tamotsu

1E6-52 Iron-catalyzed allylic substitution reaction for the synthesis of trisubstituted olefins (Fac. Sci., Kochi Univ.) ○NASU, Ken-ya; NAGANO, Takashi

1E6-53 Propylene polymerization under iron/diiminopyridine catalysis: Steric effect of ligands and application to copolymerization. (Grad. Sch. Eng., The Univ. of Tokyo) ○KAWAKAMI, Takafumi; ITO, Shingo; NOZAKI, Kyoko

1E6-54 Fe-catalyzed cross-coupling reaction of alkenyl ethers with Grignard reagents (Grad. Sch. Eng., Osaka Univ.) ○AKIMOTO, Ryo; IWASAKI, Takanori; KUNIYASU, Hitoshi; KAMBE, Nobuaki

Friday, March 27, AM

Ni

Chair: MORIUCHI, Toshiyuki (9 : 40 ~ 10 : 30)

* 9:30-9:40: interval for laptop PC connection.(2E6-05, 2E6-06, 2E6-07, 2E6-08)

2E6-05 Additive Effects of Ammonium Salts on Nickel-catalyzed Direct Amination of Allylic Alcohols (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAKAUCHI, Daisuke; KITA, Yusuke; HOSHIMOTO, Yoichi; SAKAGUCHI, Hironobu; NAKAHARA, Yasuhito; OGOSHI, Sensuke; MASHIMA, Kazushi

2E6-06 Synthesis and Reactivity of Penta-Coordinated π -Allyl Nickel Complex with Acetate Ligand (Grad. Sch. Eng., Osaka Univ.) ○SAKAGUCHI, Hironobu; HOSHIMOTO, Yoichi; KITA, Yusuke; NAKAUCHI, Daisuke; NAKAHARA, Yasuhito; MASHIMA, Kazushi; OGOSHI, Sensuke

2E6-07 Direct Asymmetric Allylic Alkylation of β -Ketoesters with Allylic Alcohols Mediated by a Catalyst System of Ni(0) and a Chiral Diphosphine Ligand (Grad. Sch. Eng. Sci., Osaka Univ.) ○ODA, Hiroaki; KAVTHE, Rahul; KITA, Yusuke; MASHIMA, Kazushi

2E6-08* Activation of Organosilanes with η^2 -Aldehyde Nickel Complexes: Key for Catalytic Syntheses of Benzoxasiloles (Grad. Sch. Eng., Osaka Univ.) ○HOSHIMOTO, Yoichi; YABUKI, Hayato; KUMAR, Ravindra; OHASHI, Masato; OGOSHI, Sensuke

Chair: YAMAGUCHI, Junichiro (10 : 40 ~ 11 : 30)

* 10:30-10:40: interval for laptop PC connection.(2E6-11, 2E6-12, 2E6-13, 2E6-14, 2E6-15)

2E6-11 Ni(0)-Catalyzed Co-Trimerization Reactions of Tetrafluoroethylene with Simple Olefins (Grad. Sch. Eng., Osaka Univ.) ○KAWASHIMA, Takuya; KIKUSHIMA, Kotaro; OHASHI, Masato; OGOSHI, Sensuke

2E6-12* Nickel-Catalyzed Borylation of Carbon-Hydrogene Bonds in Indole and Benzene Derivatives. (Grad. Sch. Eng., Osaka Univ.) TOBISU, Mamoru; ○FURUKAWA, Takayuki; CHATANI, Naoto

2E6-13 Nickel-Catalyzed Alkynylation of Anisoles Using Grignard Reagents via Carbon-Oxygen Bond Cleavage. (Grad. Sch. Eng., Osaka Univ.) TOBISU, Mamoru; ○TAKAHIRA, Tsuyoshi; CHATANI, Naoto

2E6-14 The Effect of Ligands on Nickel-Catalyzed Reductive Cleavage of Anisole Derivatives (Grad. Sch. Eng., Osaka Univ.) TOBISU, Mamoru; ○MORIOKA, Toshifumi; CHATANI, Naoto

2E6-15 Nickel-Catalyzed Ring-Opening Arylation of Dibenzofuran (Grad. Sch. Sci., Kyoto Univ.) ○KURATA, Yuto; OTSUKA, Shinya; FUKUI, Norihito; YORIMITSU, Hideki; OSUKA, Atsuhito

Chair: KURAHASHI, Takuya (11 : 40 ~ 12 : 30)

* 11:30-11:40: interval for laptop PC connection.(2E6-17, 2E6-18, 2E6-20)

2E6-17 Reductive C-C Bond Formation by Nickel Catalysts Combined with Organosilicon Reductants (Grad. Sch. Eng. Sci., Osaka Univ.) ○UEDA, Yohei; YURINO, Taiga; TSURUGI, Hayato; MASHIMA, Kazushi

2E6-18* Facile Generation of Transition Metal Particles and Their Catalytic Application for Reductive C-C Bond Formation by Organosilicon Compounds as Reducing Reagents (Sch. Eng. Sci., Osaka Univ.; IRC3, AIST; NRI, AIST) ○YURINO, Taiga; UEDA, Yohei; SHIMIZU, Yoshiki; TANAKA, Shinji; TSURUGI, Hayato; SATO, Kazuhiko; MASHIMA, Kazushi

2E6-20** Decarbonylative Suzuki-Miyaura Coupling by Nickel Catalysis (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○MUTO, Kei; YAMAGUCHI, Junichiro; ITAMI, Kenichiro

Friday, March 27, PM

V

Chair: ISOZAKI, Katsuhiro (13 : 40 ~ 14 : 40)

* 13:30-13:40: interval for laptop PC connection.(2E6-29, 2E6-30, 2E6-31, 2E6-32, 2E6-33, 2E6-34)

2E6-29 Selective Oxidative Cross-Coupling of Boron and Silyl Enolates Induced by Oxovanadium(V) (Grad. Sch. Eng., Osaka Univ.; ACT-C, JST) AMAYA, Toru; ○MAEGAWA, Yusuke; HIRAO, Toshikazu

2E6-30 Catalytic Oxidative Cross-coupling between Different Enolates with Oxovanadium(V) (Grad. Sch. Eng., Osaka Univ.; ACT-C, JST) AMAYA, Toru; ○OSAFUNE, Yuma; MAEGAWA, Yusuke; HIRAO, Toshikazu

2E6-31 Oxovanadium(V)-Catalyzed Synthesis of Ureas from Amines and Carbon Dioxide (Grad. Sch. Eng., Osaka Univ.; ACT-C, JST) MORIUCHI, Toshiyuki; ○KAWAI, Ryota; HIRAO, Toshikazu

2E6-32* Vanadium (V) Complex-catalyzed Enantioselective Synthesis of Oxa[9]helixene (ISIR, Osaka Univ.) ○SAKO, Makoto; TAKIZAWA, Shinobu; TSUJIHARA, Tetsuya; YOSHIDA, Yasushi; KODERA, Junpei; KAWANO, Tomikazu; SASAI, Hiroaki

Nb

2E6-33* Mechanistic Study for Radical Addition Reaction Catalyzed by Niobium and Tantalum Complexes with N,N'-Diaryl-1,4-diaza-1,3-butadiene Ligands (Grad. Sch. Eng. Sci., Osaka Univ.) ○NISHIYAMA, Haruka; SAITO, Teruhiko; TSURUGI, Hayato; MASHIMA, Kazushi

Cr

2E6-34 Catalytic Enantioselective Synthesis of *P*-Stereoogenic Phosphines by Molybdenum-Catalyzed Asymmetric Ring-Closing Metathesis Utilizing (π -Arene)chromium Complexes as a Platform (CRC, Hokkaido Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) OGASAWARA, Masamichi; ○IKEHATA, Ryohsuke; YA-YI, Tseng; WU, Wei-yi; ARAE, Sachie; YASUDA, Rie; TAKAHASHI, Tamotsu; KAMIKAWA, Ken

Chair: AMAYA, Toru (14 : 50 ~ 15 : 50)

* 14:40-14:50: interval for laptop PC connection.(2E6-36, 2E6-38, 2E6-39, 2E6-40, 2E6-41)

2E6-36** Synthesis of Planar Chiral Phosphine-Olefin Ligands Based on a Transition Metal Scaffold and Application in Asymmetric Catalysis (Grad. Sch. Sci., Osaka Pref. Univ.) ○TSENG, Ya-yi; OGASAWARA, Masamichi; ARAE, Sachie; TAKAHASHI, Tamotsu; KAMIKAWA, Ken

Mo

2E6-38 Dehalogenative Silylation of α -Halocarbonyl Compounds Catalyzed by Dinuclear Molybdenum Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○KANDO, Shun; TSURUGI, Hayato; MASHIMA, Kazushi

2E6-39 Molybdenum-Catalyzed Regioselective Hydrosilylation of Allenes (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○SHIKAWA, Sae; ASAKO, Sobi; TAKAI, Kazuhiko

Re

2E6-40 Rhenium-Catalyzed Synthesis of 1,4,5,6-Tetrahydro-2*H*-inden-2-ones via the *anti*-Markovnikov Addition Reaction of Methanetricarboxylates to 1,6-Dienes (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○HORI, Shunsuke; MURAI, Masahito; TAKAI, Kazuhiko

2E6-41* Rhenium-Catalyzed Synthesis of 1,3-Diiminoisoindolinones via C-H Bond Activation (Grad. Sch. Pharm., The Univ. of Tokyo) ○WANG, Zijia; SUEKI, Shunsuke; KANAI, Motomu; KUNINOBU, Yoichiro

Fe

Chair: TAKIZAWA, Shinobu (16 : 00 ~ 17 : 00)

* 15:50-16:00: interval for laptop PC connection.(2E6-43, 2E6-44, 2E6-46, 2E6-48)

2E6-43 Iron-Catalyzed Directed Arylation and Alkenylation of C(sp³)-H Bonds with Organoboron Compounds (Grad. Sch. Sci., The Univ. of Tokyo) ○ITABASHI, Yuki; SHANG, Rui; ILIES, Laurean; NAKAMURA, Eiichi

2E6-44** Selectivity Switch in Iron-Catalyzed Reaction of Amides with Alkynes via Directed C(sp³)-H Bond Activation (Grad. Sch. Sci., The Univ. of Tokyo) ○MATSUBARA, Tatsuki; ILIES, Laurean; NAKAMURA, Eiichi

2E6-46** Iron-Catalyzed Enantioselective Cross-Coupling Reactions of Racemic α -Haloesters (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○ADAK, Laksmikanta; JIN, Masayoshi; NAKAMURA, Masaharu

2E6-48 Iron-Catalyzed Enantioselective Carbometallation of Azabicyclic Alkenes (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○SAITO, Shota; ISOZAKI, Katsuhiro; ADAK, Laksmikanta; GOWER, Nicholas John; KAWABATA, Tatsuya; JIN, Masayoshi; ITOH, Takuma; ITO, Shingo; NAKAMURA, Masaharu

Chair: ILIES, Laurean (17 : 10 ~ 18 : 00)

* 17:00-17:10: interval for laptop PC connection.(2E6-50, 2E6-51, 2E6-52, 2E6-53, 2E6-54)

2E6-50 *Anti*-Selective Carbosilylation of Alkynes under Iron Catalysis (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○NISHIKORI, Tatsushi; NAKAGAWA, Naohisa; IWAMOTO, Takahiro; HATAKEYAMA, Takuji; TAKAYA, Hikaru; NAKAMURA, Masaharu

2E6-51 Synthesis of DMF-protected Iron Nanoparticle and Their Use as Catalysts in Hydrosilylation of Alkene (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○NAKAMICHI, Seiya; YANO, Hiroki; KAWASAKI, Hideya; OBORA, Yasushi

2E6-52 DMF-protected Iron Nanoparticles Catalyzed *O*-arylation (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○KIMURA, Junjo;

NAKAMICHI, Seiya; KAWASAKI, Hideya; OBORA, Yasushi

Ba

2E6-53 Selective Propargylation of Azo Compounds Using Metallic Barium (Fac. Sci., Chiba Univ.; Grad. Sch. Sci., Chiba Univ.) ○HEIMA, Toshihiko; YAMAFUJI, Seiya; SAWAE, Toshiki; YANAGISAWA, Akira

Sr

2E6-54 Development of Sr-mediated Monoalkylation of Amides (Fac. Integrated Arts and Sci., The Univ. of Tokushima) ○KUBO, Shigeki; KITAKATA, Saki; OHMURA, Satoshi; MIYOSHI, Norikazu

Saturday, March 28, AM

La

Chair: OHMURA, Toshimichi (9 : 30 ~ 10 : 30)

* 9:20-9:30: interval for laptop PC connection.(3E6-04, 3E6-05, 3E6-06, 3E6-08, 3E6-09)

3E6-04 Rare Earth Complexes Bearing Metalla-crown Ether Ligand As Catalysts for Copolymerization of CO₂-Epoxides (Grad. Sch. Eng. Sci., Osaka Univ.) ○TAGAWA, Risa; KLEEMANN, Julian; KITA, Yusuke; OKUDA, Jun; MASHIMA, Kazushi

Sm

3E6-05 Intermolecular Barbier-type coupling reaction using SmI₂ (Grad. Sch. Env. Sci., Hokkaido Univ.) ○MIYANO, Natsumi; UMEZAWA, Taiki; MATSUDA, Fuyuhiko

B

3E6-06[#] *Anti*-selective carboboration, silaboration and diboration of alkynates through phosphine organocatalysis (Fac. Sci., Hokkaido Univ.) ○NAGAO, Kazunori; OHMIYA, Hirohisa; SAWAMURA, Masaya

3E6-08 Thermally-Induced Generation of Frustrated Lewis Pairs from NHC-Borane Complexes (Grad. Sch. Eng., Osaka Univ.) ○KINOSHITA, Takuya; HOSHIMOTO, Yoichi; HASHI, Masato; OGOSHI, Sensuke

3E6-09 Synthesis of pavin alkaloids with tetra-coordinate benzylboron reagents (Grad. Sch. Fac. Sci. Eng., Shimane Univ.) OHMURO, Yuuki; ○NISHIGAICHI, Yutaka

Chair: OHMIYA, Hirohisa (10 : 40 ~ 11 : 30)

* 10:30-10:40: interval for laptop PC connection.(3E6-11, 3E6-12, 3E6-13, 3E6-14, 3E6-15)

3E6-11 Copper(I)-Catalyzed Regio- and Stereoselective Silicon-Tethering Alkylboration of Unsymmetrical Alkynes (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○IWAMOTO, Hiroaki; KUBOTA, Koji; YAMAMOTO, Eiji; ITO, Hajime

3E6-12 Synthesis and Application of Air-Stable Silylboranes with Super Silyl Group (Sch. Eng., Hokkaido Univ.) ○SHISHIDO, Ryosuke; YAMAMOTO, Eiji; ITO, Hajime

3E6-13[#] 4,4'-Bipyridine-Catalyzed Boron-Boron Bond Activation for Diboration of Alkynes (Grad. Sch. Eng., Kyoto Univ.) OHMURA, Toshimichi; ○MORIMASA, Yohei; SUGINOME, Michinori

Al

3E6-14 Hydroalumination-Triggered Cyclization of Silylated 1,3-Dien-5-yne to Polysubstituted Benzenes (Grad. Sch. Sci., Eng., Saitama Univ.) ○TOHJIMA, Takayuki; KINOSHITA, Hidenori; MIURA, Katsukiyo

3E6-15 Hydroalumination-Triggered Cyclization of *o*-(silylthynyl)styrenes to substituted Naphthalenes (Grad. Sch. Sci., Eng., Saitama Univ.) ○YAGUCHI, Kazuki; KINOSHITA, Hidenori; MIURA, Katsukiyo

Chair: MITSUDO, Koichi (11 : 40 ~ 12 : 30)

* 11:30-11:40: interval for laptop PC connection.(3E6-17, 3E6-18, 3E6-19, 3E6-20, 3E6-21)

3E6-17 Hydroalumination-Triggered Cyclization of *o*-(Silylthynyl)benzyl Ethers to Substituted Indenes (Grad. Sch. Sci., Eng., Saitama Univ.) ○FUKUMOTO, Hiroki; KINOSHITA, Hidenori; MIURA, Katsukiyo

3E6-18 Development of Cross-Coupling between Phenol Derivatives and Organo-aluminum Reagents (Grad. Sch. Pharm., The Univ. of Tokyo) ○OGAWA, Hiroyuki; WANG, Chao; UCHIYAMA, Masanobu

In

3E6-19 Indium-Catalyzed Reductive Monoalkylation of Aromatic Compounds Using Carboxylic Acids (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○TAKAYAMA, Kentaro; MORIYA, Toshimitsu; KONAKAHARA, Takeo; OGIWARA, Yohei; SAKAI, Norio

3E6-20 Indium-Catalyzed Reductive Sulfidation of Esters with Thiols (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○KASAI, Shinsei; MIYAZAKI,

Takahiro; KONAKAHARA, Takeo; OGIWARA, Yohei; SAKAI, Norio

3E6-21 In-promoted decarboxylative etherification of benzylic carbonates. (Shimane Univ.) ○TOKUMARU, Tatsuya; NAKATA, Kenya

Saturday, March 28, PM

Chair: SAKAI, Norio (13 : 40 ~ 14 : 40)

* 13:30-13:40: interval for laptop PC connection.(3E6-29, 3E6-30, 3E6-31, 3E6-32, 3E6-33, 3E6-34)

3E6-29 Intramolecular Reaction of Alkynes with Silyl Enolates Using Indium Tribromide and Electrophiles (Grad. Sch. Sci., Eng., Saitama Univ.) ○NEGISHI, Kenta; KINOSHITA, Hidenori; MIURA, Katsukiyo

Si

3E6-30 Cross-coupling of aryl- and alkenyldimethylsilanes promoted by copper(I) iodide-sodium hydride-ethylene glycol system (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) TAKEDA, Takeshi; ○TAKEDA, Yuichiro; TSUBOUCHI, Akira

3E6-31 Synthesis and Physical Properties of Silicon-Bridged π -Extended Benzodithiophene Derivatives (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○SATO, Hidehiko; ISOBUCHI, Ryota; MITSUDO, Koichi; SUGA, Seiji

Sn

3E6-32 Development of Stille coupling with quaternary ammonium salts as electrophiles (Grad. Sch. Pharm., The Univ. of Tokyo; RIKEN CSRS) ○WANG, Chao; WANG, Dong-yu; UCHIYAMA, Masanobu

3E6-33 Catalytic Dehydrogenative Stannylation of Terminal Alkynes (Sch. Sci. Eng., Meiji Univ.) ○OKU, Shinya; TSUCHIMOTO, Teruhisa

3E6-34 Tin-catalyzed Addition-cyclization Reaction of Methylene cyclopropanes (Grad. Sch. Eng., Osaka Univ.) ○YAMASHITA, Sho; SHIBATA, Ikuya

Sunday, March 29, AM

Co

Chair: KOIKE, Takashi (9 : 30 ~ 10 : 30)

* 9:20-9:30: interval for laptop PC connection.(4E6-04, 4E6-05, 4E6-06, 4E6-07, 4E6-08, 4E6-09)

4E6-04 Cobalt-catalyzed Homocoupling of Benzyl Halides (Hiroshima Univ. Graduate School of Engineering) KOMEYAMA, Kimihiro; ○IWASHITA, Kento; TAKAKI, Ken

4E6-05 Cobalt-catalyzed Three-Component Coupling Reaction of Aryl Iodides, Allenes, and Aldehydes (Hiroshima Univ. Graduate School of Engineering) KOMEYAMA, Kimihiro; ○SAKIYAMA, Shunsuke; TAKAKI, Ken

4E6-06 Cobalt-catalyzed Electrophilic Borylation of Aryl Halides (Hiroshima Univ. Graduate School of Engineering) KOMEYAMA, Kimihiro; ○KIGUCHI, Shinnosuke; TAKAKI, Ken

4E6-07[#] Cobalt-Catalyzed Reductive Three-Component Coupling Reaction of Alkynes, Acrylates and Carbon Dioxide (Grad. Sch. Eng., Kyoto Univ.) ○NOGI, Keisuke; FUJIHARA, Tetsuaki; TERAO, Jun; TSUJI, Yasushi

4E6-08 trans-Azobenzene-Tethered Bis(Co(III)-salen) as a Self-Assembled Cooperative Catalyst for Asymmetric Epoxide Ring-Opening Reaction (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○DOI, Masato; HAYASI, Yusuke; IRIE, Ryo; KUWAHARA, Yutaka; KURIHARA, Seiji; IMAHORI, Tatsushi

4E6-09 Withdrawn

Ru

Chair: KOCHI, Takuya (10 : 40 ~ 11 : 30)

* 10:30-10:40: interval for laptop PC connection.(4E6-11, 4E6-12, 4E6-13, 4E6-14, 4E6-15)

4E6-11 Metallo-Porphyrin-Catalyzed [4+2] cycloaddition of Ketones with Dienes (Grad. Sch. Eng., Kyoto Univ.) ○KURODA, Daiki; KURAHASHI, Takuya; MATSUBARA, Seijiro

4E6-12 Metal-Porphyrin-Catalyzed Dehydrative [4+2] Cycloaddition of Unsaturated Imines and Aldehydes (Grad. Sch. Eng., Kyoto Univ.) ○MAEDA, Kazuki; KURAHASHI, Takuya; MATSUBARA, Seijiro

4E6-13 Highly Diastereoselective Synthesis of CF₃-Substituted Spirooxazolines by Photoredox Catalysis (Chem. Res. Lab., Tokyo Tech) ○NOTO, Naoki; MIYAZAWA, Kazuki; KOIKE, Takashi; AKITA, Munetaka

4E6-14 Ru(II)-Pheox catalyzed asymmetric intramolecular cyclopropanation of diazoesters containing α , β -unsaturated carbonyl group and computational analysis as for the transition state. (Toyohashi Univ. of Tech.; CONFLEX Corporation) ○NAKAGAWA, Yoko; CHANTHAMATH, Soda; NAKAYAMA, Naofumi; GOTO, Hitoshi; SHIBATOMI, Kazutaka; IWASA, Seiji

4E6-15 Tandem asymmetry α , β -unsaturated carbonyl compound and aldehyde catalyzed by chiral Phebox-Ru complexes. (Grad. Sch. Eng., Nagoya Univ.) ○UBUKATA, Shino; ITO, Jun-ichi; NISHIYAMA, Hisao

Chair: KOMEYAMA, Kimihiro (11 : 40~12 : 30)

* 11:30-11:40: interval for laptop PC connection.(4E6-17, 4E6-18, 4E6-19, 4E6-20, 4E6-21)

4E6-17 Control of the Regioselectivity in Ruthenium-catalyzed Allylic Substitution Reactions (Grad. Sch. Eng., Kyoto Univ.; Kyoto Univ. C-PiER; ICR, Kyoto Univ.) KONDO, Teruyuki; OIURA, Yoshihito; KIMURA, Yu; TOSHIMITSU, Akio

4E6-18 Selectivity and Substituent Effect of Ruthenium-Catalyzed Monoalkenylation of Aromatic Ketones via Cleavage of Carbon-Heteroatom Bonds (Fac. Sci. Tech., Keio Univ.) OKONDO, Hikaru; KOCHI, Takuya; KAKIUCHI, Fumitoshi

4E6-19 Efficient Synthesis of Polycyclic Aromatic Hydrocarbons Using Ruthenium-catalyzed C-O Arylation (Fac. Sci. Tech., Keio Univ.) OSUZUKI, Yusuke; KOCHI, Takuya; KAKIUCHI, Fumitoshi

4E6-20 Enantioselective Propargylic Substitution Reaction Using Hybrid Ruthenium Complexes Bearing Chiral Phosphoramidate Moiety (The University of Tokyo Institute of Engineering Innovation, School of Engineering) SENDA, Yasushi; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

4E6-21 Ruthenium-Catalyzed Intermolecular Annulation of Naphthyl Silanes and Alkynes via Si-H and C-H bonds cleavage (Fac. Sci. Eng., Chuo Univ.) OSUGITA, Kengo; TOKORO, Yuichiro; FUKUZAWA, Shin-ichi

Room F1

Bldg.11 1111

Inorganic Chemistry

Thursday, March 26, AM

Inorganic nanostructures

Chair: INAGUMA, Yoshiyuki (9 : 10 ~ 10 : 10)

* 9:00-9:10: interval for laptop PC connection.(1F1-02, 1F1-03, 1F1-04, 1F1-05, 1F1-06)

1F1-02 Exploration of new properties of oxide nano-ribbons: an electrochemical study on catalytic properties (Grad. Sch. Sci., Kobe Univ.) KOIKE, Kenta; EDA, Kazuo; NISHIDA, Takamasa

1F1-03 Electrical properties of $M_{0.3}MoO_3$ nanoribbons (Grad. Sch. Sci., Kobe Univ.) NISHIDA, Takamasa; EDA, Kazuo

1F1-04 Synthesis of LaB₆ nano particles. (SUMITOMO OSAKA CEMENT CO., LTD. New Technology Reserch Laboratory) OOTOMO, Megumi

1F1-05 Study on the Hydrogen Storage Property of Pd Nanoparticles by In Situ Solid-State NMR Measurement Under Controlled Hydrogen Gas Pressure (Grad. Sch. Sci., Kyoto Univ.; CREST, JST; Grad. Sch. Sci., Osaka Pref. Univ.) DEKURA, Shun; KOBAYASHI, Hirokazu; IKEDA, Ryuichi; MAESATO, Mitsuhiko; KUBOTA, Yoshiki; KITAGAWA, Hiroshi

1F1-06 Development of a Three-dimensional Porous Material Possessing Photonic and Plasmonic Properties: Titania Inverse-Opal with Single Gold Nanoparticle in Each Void (CRC, Hokkaido Univ.) LEHOUX, Anais; KOWALSKA, Ewa; OHTANI, Bunsho

Structures and properties of inorganic compounds

Chair: OSADA, Minoru (10 : 20~11 : 30)

* 10:10-10:20: interval for laptop PC connection.(1F1-09, 1F1-10, 1F1-12, 1F1-14)

1F1-09 Hydrogen ion beam irradiation to zinc oxide thin film and in-situ variable-temperature electrical conductivity measurement (Grad. Sch. Sci., Kyoto Univ.; Grad. Sch. Eng., Kyushu Univ.; CREST, JST) NAKAYAMA, Ryo; MAESATO, Mitsuhiko; NAGAOKA, Takashi; ARITA, Makoto; KITAGAWA, Hiroshi

1F1-10 High-pressure synthesis, crystal structure, and polar properties of LiNbO₃-type LiSbO₃ (Fac. Sci., Gakushuin Univ.) INAGUMA, Yoshiyuki; AIMI, Akihisa; MORI, Daisuke

1F1-12 Crystal structures and physical properties of perovskites SrFe_{1-x}Ni_xO₃ (ICR, Kyoto Univ.) SEKI, Hayato; SAITO, Takashi; SHIMAKAWA, Yuichi

1F1-14 Magnetic structure and two-dimensional charge disproportionation of a new layered perovskite (ICR, Kyoto Univ.) HOSAKA, Yoshiteru; ICHIKAWA, Noriyo; SAITO, Takashi; PASCAL, Manuel; DMITRY, Khalyavin; J. PAUL, Attfield; SHIMAKAWA, Yuichi

Thursday, March 26, PM

Radiochemistry, Nuclear Chemistry, f-block Element

Chair: YAMADA, Yasuhiro (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(1F1-34, 1F1-35, 1F1-36, 1F1-37, 1F1-39)

1F1-34 Development of a flow-type solvent extraction apparatus for the

extraction of element 104, Rf (Grad. Sch. Sci., Osaka Univ.)

OKASAMATSU, Yoshitaka; NAKAMURA, Kouhei; YOKOKITA, Takuya; TAKAHASHI, Naruto; KUBOKI, Yuki; YOSHIMURA, Takashi; SHINOHARA, Atsushi

1F1-35 Time dependency of the extraction behavior of element 104, Rf: Solid-liquid extraction of Rf in Aliquat 336/HCl system using the batch-type solid-liquid extraction apparatus (Grad. Sch. Sci., Osaka Univ.; RIKEN Nishina Center for Accelerator-Based Science) YOKOKITA, Takuya; NAKAMURA, Kouhei; SHIGEKAWA, Yudai; YASUDA, Yuki; KASAMATSU, Yoshitaka; TAKAHASHI, Naruto; YOSHIMURA, Takashi; HABA, Hiromitsu; KOMORI, Yukiko; MURAKAMI, Masashi; SHINOHARA, Atsushi

1F1-36 Assessment of successive fluoride complex formation of superheavy element Rutherfordium (Rf) by a TTA-reversed-phase chromatography method (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) KITAYAMA, Yuta; FUKUDA, Yoshiki; HABA, Hiromitsu; TSUKADA, Kazuaki; TOYOSHIMA, Atsushi; KIKUNAGA, Hidetoshi; KOMORI, Yukiko; MURAKAMI, Masashi; UENO, Shingo; TANIGUTI, Takumi; HAYASHI, Kazunori; YATSU, Yukari; TIYONISHIO, Iori; MURAKAMI, Kento; YOKOYAMA, Akihiko

1F1-37 Density functional study on electronic state of f-block elements for the separation of minor-actinides from lanthanides (Grad. Sch. Sci., Hiroshima Univ.) KANEKO, Masashi; MIYASHITA, Sunao; NAKASHIMA, Satoru

1F1-39 Measurement of the First Ionization Energy of Nobelium (No, Z=102) (ASRC, JAEA) SATO, Tetsuya K.; ASAI, Masato; KANEYA, Yusuke; TSUKADA, Kazuaki; TOYOSHIMA, Atsushi; VASCON, Alessio; TAKEDA, Shinsaku; MITSUKAI, Akina; NAGAME, Yuichiro; ICHIKAWA, Shinichi; MAKII, Hiroyuki; OSA, Akihiko; SAKAMA, Minoru; OOE, Kazuhiro; SATO, Daisuke; SCHAEDEL, Matthias; KRATZ, Jens Volker; STORA, Thierry

Chair: SATO, Tetsuya K. (15 : 40~16 : 10)

* 15:30-15:40: interval for laptop PC connection.(1F1-41, 1F1-42, 1F1-43)

1F1-41 Iron (III) Sulfide Particles Produced by Polyol Method. (Fac. Sci., Tokyo Univ. of Sci.) KUBONO, Ipppei; YAMADA, Yasuhiro; KOBAYASHI, Yoshio

1F1-42 Iron carbide nanoparticles synthesized by laser ablation in organic solvents (Fac. Sci., Tokyo Univ. of Sci.; RIKEN Nishina Center for Accelerator-Based Science) AMAGASA, Shota; YAMADA, Yasuhiro; KOBAYASHI, Yoshio

1F1-43 Rock-salt structured iron nitride thin films produced by pulsed laser deposition (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) SATO, Miho; YAMADA, Yasuhiro; KOBAYASHI, Yoshio

Friday, March 27, AM

Porous Compounds

Chair: OAKI, Yuya (9 : 40 ~ 10 : 40)

* 9:30-9:40: interval for laptop PC connection.(2F1-05, 2F1-06, 2F1-08, 2F1-10)

2F1-05 Ion Exchange by Trivalent Ion - La³⁺, Eu³⁺ and Yb³⁺ - of Sodium GTS-type Titanosilicates (Grad. Sch. Sci. Eng., Yamaguchi Univ.) FUJIWARA, Keiko; YOSHIDA, Tatsuhiko; MINAMI, Yuki; FUKATSU, Tatsuya; NAKATSUKA, Akihiko; NAKAYAMA, Noriaki

2F1-06 Selective Introduction of Metal Ions in Redox-Active Porous Ionic Crystals (Grad. Sch. Arts and Sci., The Univ. of Tokyo) KAWAHARA, Ryosuke; UCHIDA, Sayaka

2F1-08 Synthesis of titanium (based) oxide porous thin films -Challenges for high performance devices by using porosity- (NIMS International Center for Young Scientists (ICYS)) OSUZUKI, Norihiro; YAMAUCHI, Yusuke

2F1-10 Direct observation of the formation process of precursor films of porous titania by using confocal laser scanning microscope (AIST) KIMURA, Tatsuo; SHINTATE, Morio; MIYAMOTO, Nobuyoshi

Porous Compounds, Inorganic-Organic Hybrids

Chair: KIMURA, Tatsuo (10 : 50~12 : 30)

* 10:40-10:50: interval for laptop PC connection.(2F1-12, 2F1-13, 2F1-14, 2F1-15, 2F1-16, 2F1-18)

2F1-12 Thermal properties and hierarchical morphologies of organic crystals formed in the interspace of nanocrystals (Fac. Sci. Tech., Keio Univ.) SATO, Kosuke; OAKI, Yuya; IMAI, Hiroaki

2F1-13 Adsorption properties of microporous pillared carbons (University of Hyogo Graduate School of Engineering) HAYASHIDA, Akihiro; MATSUO, Yoshaiki

2F1-14 Preparation of metal nanoparticles supported on metal-organic frameworks by arc plasma deposition (I₂CNER, Kyushu Univ.; CREST, JST; RIKEN Spring-8 Center) SADAKIYO, Masaaki; YAMAUCHI, Miho; KASAI, Hidetaka; KATO, Kenichi; TAKATA, Masaki

2F1-15 Preparation of Platinum-supported Mesoporous Silica (Fac. Sci. Technol., Tokyo Univ. of Sci.) OSUZUKI, Haruka; MOMOSE, Haruki; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro

2F1-16 Production of the stable M₂²⁺ (M = Zn and Cd) species by utilizing

MFI-reaction-field -Combined experimental and theoretical approaches for clarifying the M_2^{2+} formation mechanism- (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) OODA, Akira; OHKUBO, Takahiro; KURODA, Yasushige

2F1-18 Synthesis and properties of Titanium Phosphonate Clusters (Fac. Sci. Technol., Tokyo Univ. of Sci.) OHAYAMI, Ryohei; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro

Friday, March 27, PM

Nanosheets

Chair: FUKUDA, Katsutoshi (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(2F1-26, 2F1-29, 2F1-30, 2F1-31)
- 2F1-26** CSJ Award for Young Chemists Development of Light Energy Conversion Materials Using Two-dimensional Inorganic Nanocrystals (Grad. Sch. Eng., Kyushu Univ.) OIDA, Shintaro
- 2F1-29** Synthesis of Layered Perovskite with Magnetic Elements and Their Delamination into Nanosheets (MANA, NIMS) OEBINA, Yasuo; SASAKI, Takayoshi
- 2F1-30** Osmotic swelling behaviors of a layered titanate in various amine solutions (MANA, NIMS) OHOSHIDE, Tatsumasa; PEREZ, Arnaud; GENG, Fengxia; MA, Renzhi; FUNATSU, Asami; YAMAUCHI, Yusuke; MIYAMOTO, Nobuyoshi; FUJIMOTO, Kenjiro; SASAKI, Takayoshi
- 2F1-31** Preparation and evaluation of Pd metal nanosheets (Fac. Eng., Kyushu Univ.) OFUKAE, Yusuke; ISHIHARA, Tatsumi; IDA, Shintaro

Chair: TANIGUCHI, Takaaki (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(2F1-33, 2F1-34, 2F1-35, 2F1-37)
- 2F1-33** Synthesis and function exploration of superlattice composites based on transition-metal hydroxide nanosheets and graphene (MANA, NIMS) OMA, Renzhi; MA, Wei; LIU, Xiaohu; SASAKI, Takayoshi
- 2F1-34** Film Electrode of 1T- and 2H-MoS₂ Nanosheets for Li Ion Battery (IOC, Kyoto Univ.) OFUKUDA, Katsutoshi; TOYODA, Satoshi; MORITA, Masahito; UCHIMOTO, Yoshiharu; MATSUBARA, Eiichiro
- 2F1-35*** Bearing of Lanthanoids to Titanate Nanosheets by Photo-deposition Method (Kawasaki Med. Sch.) OYOSHIOKA, Daisuke; NISHIMURA, Yasumitsu
- 2F1-37**** Withdrawn

Nanosheets & Layer Compounds

Chair: IDA, Shintaro (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(2F1-40, 2F1-41, 2F1-42, 2F1-43, 2F1-44, 2F1-45)
- 2F1-40** Fabrication of Thin Film Based on Layered Double hydroxide using Quartz Crystal Microbalance (Grad. Sch. Eng., Iwate Univ.) OAIKAWA, Sumio; SAWASATO, Miki; HIRAHARA, Hidetoshi
- 2F1-41** Adsorption of caffeine onto organoclays (Fac. Eng., Shinshu Univ.) OKADA, Tomohiko; OGUCHI, Junpei; YAMAMOTO, Kenichiro; SHIONO, Takashi; FUJITA, Masahiko; IYAMA, Taku
- 2F1-42** Adsorptive properties of saponite-like layered silicates immobilized on spherical silica particles (Grad. Sch. Sci. Technol., Shinshu Univ.) SUEYOSHI, Mai; OKADA, Tomohiko; MISHIMA, Shoji
- 2F1-43** Intercalation into 15-crown-5-ether into Na-type layered octosilicate (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) OTSUZURA, Hidehiro; TAKAYAMA, Ryosuke; ASAKURA, Yuusuke; KURODA, Yoshiyuki; SHIMOJIMA, Atsushi; WADA, Hiroaki; KURODA, Kazuyuki
- 2F1-44** Synthesis of a Novel Porous Material by Reaction of Zn(II)-immobilized layered silicate with aromatic dicarboxylic acids (Grad. Sch. Creative Sci. Eng., Waseda Univ.) OKUYAMA, Taiki; IDE, Yusuke; OGAWA, Makoto; SUGAHARA, Yoshiyuki; SANO, Tsuneji
- 2F1-45** Preparation and identification of Bis(dipirinato)metal complex trimer nanosheets (Grad. Sch. Sci., The Univ. of Tokyo) ONAGAYAMA, Tatsuhiko; SAKAMOTO, Ryota; NISHIHARA, Hiroshi

Synthesis & Properties of Oxides

Chair: SHIMOJIMA, Atsushi (16 : 40~17 : 50)

- * 16:30-16:40: interval for laptop PC connection.(2F1-47, 2F1-49, 2F1-50, 2F1-51, 2F1-52)
- 2F1-47*** Far-ultraviolet spectrometry of metal oxide semiconductors: Comparison between TiO₂ and ZnO (Sch. Sci. Tech., Kwansai Gakuin Univ.) OTANABE, Ichiro; YAMADA, Yosuke; OZAKI, Yukihiro
- 2F1-49** Synthesis and crystal structure analysis of BaLaSi₂ and Ba₂LaSi₆ (IMRAM, Tohoku Univ.) HASHIMOTO, Takayuki; OYAMANE, Hisanori; YAMADA, Takahiro; SEKIGUCHI, Takashi
- 2F1-50** Synthesis of Aluminum Tungstate by Sol-gel Method and Characterization (Fac. Sci., Kochi Univ.) OUEYAMA, Ayumi; SHIMANOUCI, Rie
- 2F1-51** Hydrothermal Synthesis of Fe-substituted NaTi₂(PO₄)₃ Solid Solutions and Electrical Properties (Fac. Sci., Kochi Univ.) OKUROSAKA, Takanori; SHIBATA, Yusuke; SHIMANOUCI, Rie

2F1-52* Rh-substitution and pressure effect on versatile helimagnetic phases in a cubic perovskite SrFeO₃ (Grad. Sch. Eng., The Univ. of Tokyo; Grad. Sch. Nat. Sci. Technol., Okayama Univ.) KINOSHITA, Masataka; SAKAI, Hideaki; HAYASHI, Naoaki; TOKURA, Yoshinori; TAKANO, Mikio; OISHIWATA, Shintaro

Saturday, March 28, AM

Polyoxometalates

Chair: TSUNASHIMA, Ryo (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(3F1-07, 3F1-08, 3F1-09, 3F1-10, 3F1-11)
- 3F1-07** Synthesis and Characterization of Trimanganese-Core-Incorporated Polyoxovanadate [Mn₃(OAc)(OH₂)V₁₀O₃₀]⁵⁻ (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) OMARUYAMA, Tatsuya; KIKUKAWA, Yuji; HAYASHI, Yoshihito
- 3F1-08** Mn-containing Open-Dawson polyoxometalate (Kanagawa Univ. Department of chemistry, Faculty of Science) OATSUNAGA, Satoshi; INOUE, Yusuke; NOMIYA, Kenji
- 3F1-09** Synthesis and molecular structure of dimeric, tri-titanium(IV)-substituted Dawson polyoxometalate bridged by two Cp*Rh groups (Fac. Sci., Kanagawa Univ.) OATSUKI, Yuhsuke; HOSHINO, Takahiro; TAKAKU, Shouko; NOMIYA, Kenji
- 3F1-10** Synthesis and Building Process of Fluoride-Incorporated Polyoxovanadates (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) OKIKUKAWA, Yuji; YOKOYAMA, Taiga; KASHIO, Sanae; HAYASHI, Yoshihito
- 3F1-11** Reversible Structural Conversion of Chloride-Incorporated Dodecavanadates and Control of Decapsulation of Chloride (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) OINOUE, Yoshitaka; KIKUKAWA, Yuji; HAYASHI, Yoshihito

Polyoxometalates

Chair: HAYASHI, Yoshihito (11 : 00~12 : 00)

- * 10:50-11:00: interval for laptop PC connection.(3F1-13, 3F1-14, 3F1-15, 3F1-17)
- 3F1-13** Control of the layered structures in decavanadate-bolaamphiphile hybrid crystals (Sch. Sci., Tokai Univ.) OKIYOTA, Yoshiki; TAIRA, Minako; NARUKE, Haruo; ITO, Takeru
- 3F1-14** Syntheses and Crystal Structure of Inorganic-Organic Hybrid Layered Crystal Composed of Keggin-type Polyoxotungstate and Heterocyclic Surfactant (Sch. Sci., Tokai Univ.) OTOBE, Saki; NARUKE, Haruo; FUJIO, Katsuhiko; ITO, Takeru
- 3F1-15*** Syntheses and Single-Molecule Magnet Properties of Transition Metal-Substituted Polyoxometalates (Grad. Sch. Eng., The Univ. of Tokyo) OSUZUKI, Kosuke; SATO, Rinta; MINATO, Takuo; SHINOE, Masahiro; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 3F1-17*** Understanding of electronic transport properties of polyoxometalate-based solids (Grad. Sch. Sci. Eng., Yamaguchi Univ.) OTSUNASHIMA, Ryo; OOUE, Rika; NONAKA, Yukiko; IWAMOTO, Yoshifumi

Room F2

Bldg.11 1112

Coordination Chemistry, Organometallic Chemistry

Thursday, March 26, AM

Ir

Chair: KAJIWARA, Takashi (9 : 00 ~9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(1F2-01, 1F2-02, 1F2-03, 1F2-04, 1F2-05)
- 1F2-01** Palladium-Catalyzed Site Selective Arylations of Phosphorescent Iridium Complexes bearing Fluorine functionality (Grad. Sch. Eng. Sci., Osaka Univ.) OSAITOU, Syunsuke; KAWAMORITA, Soichiro; NAOTA, Takeshi
- 1F2-02** The photo dynamics of cyclometalated Ir complex (Sch. Sci., Tokyo Tech) OTANNO, Kyohei; KIKUCHI, Shinnosuke; INAGAKI, Akiko; ONDA, Ken; SHIN-YA, Koshihara; TANAKA, Seiichi
- 1F2-03** Syntheses of Phosphorescent Iridium Complexes with Tridentate 3{5}-Substituted Pyrazole Ligands (Fac. Sci. Eng., Chuo Univ.) OODAKA, Tomoko; OZAWA, Hiroaki; HAGA, Masa-aki
- 1F2-04** Synthesis and Photophysical Properties of Substituted Tris(2-phenylpyrimidinato) Iridium(III) Complexes (IRC3, AIST; Furuya Metal Co., Ltd.) OIDO, Yohei; KOIKE, Kazuhide; KONNO, Hideo; SUGITA, Yoshiro; ITO, Takashi
- 1F2-05** Photochemical racemic reaction of tris-cyclometalated iridium(III) complexes (Grad. Sch. Eng., Chiba Univ.) OATSUSHITA, Miru;

KOBAYASHI, Yuji; YAGAI, Shiki; KITAMURA, Akihide; KARATSU, Takashi

Ir,Ce,Nd

Chair: KAWAMORITA, Souichirou (10 : 00~11 : 00)

- * 9:50-10:00: interval for laptop PC connection.(1F2-07, 1F2-09, 1F2-10, 1F2-11, 1F2-12)
- 1F2-07*** Metal-Complexes with Syntheses Microwave-Catalytic and the Dielectric Properties (Minerva Light Lab.) ○MASUDA, Yoshitaka; MATSUMURA, Takeko; OGAWA, Shingo; YANAGIDA, Shouzou; MITANI, Tomohiko; WATANABE, Takashi
- 1F2-09** NIR emission property of N-linked corrole-iridium(III) complex (Grad. Sch. Eng., Kyushu Univ.) ○ISHIKAWA, Takahiro; ISHIDA, Masatoshi; TOGANOH, Motoki; FURUTA, Hiroyuki
- 1F2-10** Syntheses and SMM behaviors of Lanthanide(III) azacrown-ether complexes; correlation between magnetic behaviors and coordination structures (Grad. Sch. Human. Sci., Nara Women's Univ.) ○WADA, Hisami; OOKA, Sayaka; TAKEHARA, Chika; THEN, Poh Ling; KATAOKA, Yumiko; KAJIWARA, Takashi; YAMAMURA, Tomoo; NAKANO, Motohiro
- 1F2-11** Synthesis, structure, and SMM behavior of a Zn(II)-Ce(III)-Zn(II) complex with pseudo threefold symmetry (Fac. Sci., Nara Women's Univ.; IMR, Tohoku Univ.) ○IRIE, Natsumi; KAYAHARA, Saori; WADA, Hisami; OOKA, Sayaka; TAKEHARA, Chika; KATAOKA, Yumiko; KAJIWARA, Takashi; YAMAMURA, Tomoo
- 1F2-12** Synthesis and SMM behavior of linear Zn(II)-Ln(III)-Zn(II) trinuclear complexes with pseudo threefold symmetry (Ln = Pr, Nd) (Fac. Sci., Nara Women's Univ.; IMR, Tohoku Univ.) ○KAYAHARA, Saori; IRIE, Natsumi; OOKA, Sayaka; WADA, Hisami; TAKEHARA, Chika; KATAOKA, Yumiko; KAJIWARA, Takashi; YAMAMURA, Tomoo

Al,Ag

Chair: ISHIDA, Masatoshi (11 : 10~12 : 00)

- * 11:00-11:10: interval for laptop PC connection.(1F2-14, 1F2-16, 1F2-17, 1F2-18)
- 1F2-14**** Novel water activation approaches on aluminum porphyrins (Urban Environmental Sci., Tokyo Metropolitan Univ.) ○KUTTASSERY, Fazalurahman; MATHEW, Siby; SAGAWA, Shogo; YAMAMOTO, Daisuke; ONUKI, Satomi; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo
- 1F2-16** Synthesis of coordination frameworks by use of metal hydrides (Grad. Sch. Eng., Kyoto Univ.) ○KADOTA, Kentaro; HORIKE, Satoshi; KITAGAWA, Susumu
- 1F2-17** Influence of aromatic thiolato Ligand in the formation of silver and cobalt mixed complex (5) (Grad. Sch. Integrated Arts Sci., Kochi Univ.; Grad Sch. Eng., Nagoya Inst. of Tech.) ○KATOH, Takumi; ITO, Yuki; OZAWA, Tomohiro; YONEMURA, Toshiaki
- 1F2-18** Structural Control of Crystalline Coordination Networks Based on Polyproline II Helix (Fac. Eng., The Univ. of Tokyo) ○YAMAGAMI, Motoya; SAWADA, Tomohisa; FUJITA, Makoto

Thursday, March 26, PM

Pt

Chair: YOSHIDA, Masaki (13 : 10~14 : 00)

- * 13:00-13:10: interval for laptop PC connection.(1F2-26, 1F2-27, 1F2-28, 1F2-29, 1F2-30)
- 1F2-26*** Synthesis and Crystal Structure of Quasi-One-Dimensional Halogen-Bridged Platinum Complexes with Hydroxyl Functional Groups (Grad. Sch. Sci., Tohoku Univ.; CREST(JST)) ○MIAN, Mohammad Rasef; IGUCHI, Hiroaki; TAKAISHI, Shinya; YAMASHITA, Masahiro
- 1F2-27** Rearrangement of triplatinum complexes with bridging silylene ligands by addition of alkynes (Chem. Res. Lab., Tokyo Tech) ○KAMONO, Megumi; TANAKA, Kimiya; TANABE, Makoto; OSAKADA, Kohtarō
- 1F2-28*** Synthesis, structure and emission property of polymethylene-vaulted trans-bis(iminoimidazolato)platinum(II) complexes (Osaka Univ.) ○LE, Ngoc Ha - Thu; HOSHINO, Makoto; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 1F2-29** Introduction of Iodine into 2-D Hofmann-type Coordination Polymers and their Properties (Grad. Sch. Sci., Kyushu Univ.) ○SHIMODA, Sayuri; MISHIMA, Akio; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 1F2-30*** Crystal structure and properties of the one-dimensional chain complex that platinum and rhodium atoms are aligned in turn (Fac. Eng., Gifu Univ.) ○UEMURA, Kazuhiro; ITO, Mari; EBIHARA, Masahiro

Chair: UEMURA, Kazuhiro (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(1F2-32, 1F2-34, 1F2-35, 1F2-36, 1F2-37)
- 1F2-32*** Cyclometalated Dinuclear Pt Complexes exhibiting Multichromic Properties (Fac. Sci., Hokkaido Univ.; Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.; Sch. Sci., Hokkaido Univ.; PRESTO, JST) ○YOSHIDA, Masaki; SHITAMA, Hotaka; NAKAJIMA, Airi; YASHIRO, Naoki;

KOBAYASHI, Atsushi; KATO, Masako

- 1F2-34** Synthesis and photoluminescence properties of a cyclometalated Pt(II) complex having hydrogen bonding ability. (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○EBINA, Massanori; YOSHIDA, Masaki; KOBAYASHI, Atsushi; KATO, Masako
- 1F2-35** Vapochromism of a Terpyridine Platinum(II) Complex Bearing a Carboxy Group (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○OIZUMI, Shiori; SHIGETA, Yasuhiro; YOSHIDA, Masaki; KOBAYASHI, Atsushi; KATO, Masako
- 1F2-36** Solid-State Emission of Polymethylene-Vaulted trans-Bis(iminopyrrolato)platinum(II) Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○YOSHIDA, Atsushi; HOSHINO, Makoto; TAKAHASHI, Koichi; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 1F2-37** Morphology Control and Solid-State Emission of Heteroleptic Platinum(II) Complexes Bearing *o*-Iminophenyl and *o*-Iminophenoxy Ligand (Grad. Sch. Eng. Sci., Osaka Univ.) ○IWATA, Shotaro; KASHIWABARA, Takashi; KOMIYA, Naruyoshi; IHARA, Asami; NAOTA, Takeshi

Chair: KOSHIYAMA, Tomomi (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(1F2-39, 1F2-41, 1F2-42, 1F2-43, 1F2-44)
- 1F2-39**** High proton conduction of 4-legged MX-tube typed Pt complexes with 1-D channel (Grad. Sch. Sci., Kyoto Univ.) ○OTAKE, Kenichi; OTSUBO, Kazuya; DEKURA, Shun; KOMATSU, Tokutaro; SUGIMOTO, Kunihisa; FUJIWARA, Akihiko; KITAGAWA, Hiroshi
- 1F2-41** Synthesis and Bent Structure of trans-Bis(*o*-iminosulfenato)platinum (II) Complexes with Phenylethynyl Functionality (Sch. Eng. Sci., Osaka Univ.) ○KATAKURA, Naoki; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 1F2-42** Regioselectivity of Intramolecular Pt-H interactions on Polymethylene-Vaulted trans-Bis(salicylaldiminato)Pt(II) Complexes (Sch. Eng. Sci., Osaka Univ.) ○INOUE, Ryo; TANAKA, Yoko; KAWAMORITA, Soichiro; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 1F2-43** Synthesis, Structure and Proton Capturing Ability of Highly Strained cis-Bis(salicylaldiminato)platinum(II) Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○TANAKA, Tomoya; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 1F2-44** Synthesis, Structure and Emission Property of trans-Bis(salicylaldehyde-hydrazono)platinum(II) (Sch. Eng. Sci., Osaka Univ.) ○HASHIMOTO, Takumi; FUKUMOTO, Kanako; KOMIYA, Naruyoshi; NAOTA, Takeshi

Chair: SHINOZAKI, Kazuteru (16 : 30~17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(1F2-46, 1F2-48, 1F2-49, 1F2-50, 1F2-51)
- 1F2-46*** Coordination and Aggregation Behavior of Diammineplatinum(II) Complexes with D-Penicillamine (Grad. Sch. Sci., Osaka Univ.) ○KUWAMURA, Naoto; KURIOKA, Yoshinari; YOSHINARI, Nobuto; IGASHIRA, Asako; KONNO, Takumi
- 1F2-48*** A Platinum(II)-Terpyridine Derivative Tethered to a Viologen Acceptor Showing Improved Hydrogen Evolution Activity (Kyushu Univ. Dept. Chem.; Kyushu Univ. WPI- I2CNER; Kyushu Univ. Center for Molecular Systems) ○LIN, Shu; KITAMOTO, Kyoji; YAMAUCHI, Kosei; SAKAI, Ken
- 1F2-49** The photo-hydrogen-evolving activity of a new Pt(II) terpyridine complex tethered to an amine donor (Kyushu Univ. Fac. Sci.; Kyushu Univ. WPI-I2CNER; Kyushu Univ. CMS) ○MIYAJI, Masayuki; SAKAI, Ken
- 1F2-50** Construction of Platinum-lined One-dimensional Aggregates by Lamination of Macrocyclic Dinuclear Platinum Complexes (Grad. Sch. Sci., The Univ. of Tokyo) ○KAMATSUKA, Tatsuya; TASHIRO, Shohei; KURITANI, Masumi; SHIONOYA, Mitsuhiko
- 1F2-51** Synthesis of Linear Trinuclear Platinum Complexes Supported by Tripodal Tetraphosphine Ligand (Fac. Sci., Nara Women's Univ.) ○UEGAKI, Miho; HATADA, Satoko; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki

Chair: IGASHIRA, Asako (17 : 40~18 : 40)

- * 17:30-17:40: interval for laptop PC connection.(1F2-53, 1F2-54, 1F2-55, 1F2-56, 1F2-57, 1F2-58)
- 1F2-53** Synthesis, Structure, and Characterization of Pt(II)(N⁺C⁻N)-type Complex Coordinated with an Acetylene Derivative. (Grad. Sch. Nanobiotechnology, Yokohama City Univ.) ○SATO, Kyouhei; SHINOZAKI, Kazuteru
- 1F2-54** Crystal structure and proton conduction of a novel porous coordination polymer with Pt dimer complex (Grad. Sch. Sci., Kyoto Univ.) ○NAGAYAMA, Syuuya; OTSUBO, Kazuya; SUGIMOTO, Kunihisa; FUJIWARA, Akihiko; KITAGAWA, Hiroshi
- 1F2-55** Synthesis and luminescent properties of diphenyltriazolato-bridged dinuclear platinum(II) complex. (Grad. Sch. Eng., Nagasaki Univ.) ○HAMASAKI, Shoko; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke
- 1F2-56** Synthesis and luminescent properties of platinum(II) complexes bearing dimethylbipyridine and imidoamidinate (Grad. Sch. Eng., Nagasaki Univ.) ○NOUCHI, Rie; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke
- 1F2-57** Redox Reaction of Metal Complexes Possessing Redox-active Ligands

in Alcohol (Fac. Sci. Eng., Chuo Univ.) ○YAMADA, Shota; WAKIZAKA, Masanori; MATSUMOTO, Takeshi; CHANG, Ho-chol
1F2-58 Synthesis and electrochemical property of metallomesogen possessing redox active ligand (Fac. Sci. Eng., Chuo Univ.) ○SAKAZUME, Yasutaka; WAKIZAKA, Masanori; MATSUMOTO, Takeshi; CHANG, Ho-chol

Friday, March 27, AM

Chair: UMAKOSHI, Keisuke (9:00~9:40)

- * 8:50-9:00: interval for laptop PC connection.(2F2-01, 2F2-02, 2F2-03, 2F2-04)
2F2-01 Luminescent Ionic Liquid Based on a Pt(II) complex (Grad. Sch. Chi. Sci. and Eng., Hokkaido Univ.) ○OGAWA, Tomohiro; YOSHIDA, Masaki; KOBAYASHI, Atsushi; KATO, Masako
2F2-02 Synthesis, Structure and Regioselective Pt-H Interaction of Vaulted Bis(iminophenyl)platinum(II) Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○HOSOKAWA, Takashi; KOMIYA, Naruyoshi; NAOTA, Takeshi
2F2-03 Preparation of Cationic Triplatinum Complexes Stabilized by Bridging Germylene Ligands (Chem. Res. Lab., Tokyo Tech) ○TANAKA, Kimiya; TANABE, Makoto; OSAKADA, Kohtarō
2F2-04 Polynuclear(5-12) platinum(II) thiolate cluster. (Chem. Res. Lab., Tokyo Tech) ○TSUCHIYA, Shohgo; KITAZAWA, Hirokazu; IMAOKA, Takane; YAMAMOTO, Kimihisa

Asian International Symposium -Coordination Chemistry, Organometallic Chemistry-

Friday, March 27, PM

Chair: Yamaguchi, Shigehiro (13:00~14:10)

- 2F2-25** [#] Keynote Lecture Group 13 Cations and Divalent Group 14 Ligands (National Taiwan Univ.) Chiu, Ching-Wen (13:00~13:30)
2F2-28 [#] Invited Lecture Nickel(0) Catalyzed Enantioselective Synthesis of Benzoxasilole (Osaka Univ.) Kumar, Ravindra (13:30~13:50)
2F2-30 [#] Invited Lecture Preparation of Biologically Active Compounds via Rh-Catalyzed Asymmetric Transformations (National Taiwan Normal Univ.) Wu, Hsyueh-Liang (13:50~14:10)

Chair: Ogoshi, Sensuke (14:20~15:20)

- 2F2-33** [#] Invited Lecture Series of Chemical Reactivity: Starting from Ruthenium Acetylide Complexes (National Taiwan Normal Univ.) Sung, Hui-Ling (14:20~14:40)
2F2-35 [#] Invited Lecture Gold-based Bimetallic Nanoclusters for Low Temperature C-X Bond Activation (Osaka Univ.) Dhital, Raghu Nath (14:40~15:00)
2F2-37 [#] Invited Lecture Toward Structural and Functional Analogues of the Nitrogenase Active Site (Nagoya Univ.) Ohki, Yasuhiro (15:00~15:20)

Chair: Yamashita, Makoto (15:30~17:20)

- 2F2-40** [#] Keynote Lecture Functional Supramolecular Complexes using "Click" Chemistry (Univ. of Otago) Crowley, James David (15:30~16:00)
2F2-43 [#] Invited Lecture Inorganic-Organic Hybrid Framework (IOF): A New Strategy For Constructing Conductive Crystalline Microporous Material (Chinese Academy of Sciences) Xu, Gang (16:00~16:20)
2F2-45 [#] Invited Lecture Defect Engineering to Enhance Proton Conductivity in Metal-Organic Frameworks (Kyoto Univ.) Taylor, Jared (16:20~16:40)
2F2-47 [#] Invited Lecture Use of Decoy Molecules as a Reaction Accelerator for the Hydroxylation of Gaseous Alkanes Catalyzed by Cytochrome P450s (Nagoya Univ.) Shoji, Osami (16:40~17:00)
2F2-49 [#] Invited Lecture Toward the Creation of Stable, Functionalized Metal Clusters (Tokyo Univ. of Science) Negishi, Yuichi (17:00~17:20)

Coordination Chemistry, Organometallic Chemistry

Saturday, March 28, AM

Ru

Chair: YAMAUCHI, Kosei (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(3F2-01, 3F2-03, 3F2-05)
3F2-01 ^{*} Face-selective reduction of an NAD(P) model compound using Ru(II) complexes as photocatalysts (Grad. Sch. Sci., Eng., Tokyo Tech) ○KOGA, Kichitaro; MORIMOTO, Tatsuki; ISHITANI, Osamu
3F2-03 ^{*} Synthesis and photophysical properties of hybrids composed of polyoxometalates and multinuclear metal complexes reinforced by multivalent metal ions (Grad. Sch. Sci., Eng., Tokyo Tech) ○OHASHI, Kenji; TAKEDA, Hiroyuki; KOIKE, Kazuhide; ISHITANI, Osamu
3F2-05 ^{*} Development of a Highly Efficient Photocatalytic System for CO₂ Reduction Using the Hybrids of Metal Complexes and Silica Particles (Grad. Sch. Sci., Eng., Tokyo Tech; AIST) ○UEDA, Yutaro; TAKEDA, Hiroyuki; KOIKE, Kazuhide; ISHITANI, Osamu

Chair: ISHITANI, Osamu (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(3F2-08, 3F2-10, 3F2-11, 3F2-12)
3F2-08 ^{*} Single-Pigment-Driven Multi-electron Storage Behaviors of Tris(2,2'-bipyridine)ruthenium(II) Derivatives having Dendritic Viologen Moieties (Dept. Chem. Kyushu Univ.; WPI- I2CNER, Kyushu Univ.; CMS, Kyushu Univ.) ○KITAMOTO, Kyoji; SAKAI, Ken
3F2-10 Photo-driven multi-electron storage in tris(2,2'-bipyridine)ruthenium(II) derivatives tethered to multi-diquat moieties leading to hydrogen evolution from water (Kyushu Univ. Dept. Chem.; I2CNER, Kyushu Univ.; Kyushu Univ. CMS) ○YAMAMOTO, Keiya; KITAMOTO, Kyoji; SAKAI, Ken
3F2-11 Mechanism of water oxidation by Ru(bpy)₃³⁺ catalyzed by mononuclear ruthenium complexes (Kyushu Univ. Dept. Chem.; Kyushu Univ. WPI-I2CNER; Kyushu Univ. Center for Molecular Systems) ○YUTA, Tsubonouchi; KEN, Sakai; PARENT, Alexander
3F2-12 ^{*} Polypyridyl Ruthenium(II) Complexes in Ion Exchange Resins: Introduced Behaviors and Photophysical Properties (Grad. Sch. Sci., Osaka City Univ.) ○ITO, Akitaka; KISHIDA, Noriaki; TEKI, Yoshio

Chair: TAKEDA, Hiroyuki (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(3F2-15, 3F2-17, 3F2-19, 3F2-20)
3F2-15 ^{*} Synthesis of Ruthenium-Periodic Mesoporous Organosilica Hybrid Catalysts and their Photocatalytic CO₂ Reduction (Grad. Sch. Sci., Kitasato Univ.; Toyota Central R&D Labs., Inc. Inagaki Senior Fellow Lab.) ○ISHIDA, Hitoshi; SEKINE, Masato; KURAMOCHI, Yusuke; MAEGAWA, Yoshifumi; INAGAKI, Shinji
3F2-17 ^{*} Photochemical CO₂ Reduction by Ruthenium-Peptide Complexes: Effects of Amino Acid Sequences (Sch. Sci., Kitasato Univ.) ○KURAMOCHI, Yusuke; KITAMURA, Kyohei; KAMIYA, Masaya; MATSUURA, Kousuke; ISHIDA, Hitoshi
3F2-19 Photocatalytic CO₂ Reduction by Peptide-Bridged Dinuclear Ruthenium Complexes (Grad. Sch. Sci., Kitasato Univ.) ○ITABASHI, Jun; KURAMOCHI, Yusuke; USHIDA, Kiminori; ISHIDA, Hitoshi
3F2-20 Optical Resolution of *cis*-Ru(dbb)₂(CN)₂ and photo induced racemization of enantiomer (Grad. Sch. Nanobioscience, Yokohama City Univ.) ○AIHARA, Yusuke; SHINOZAKI, Kazuteru; SATO, Kyouhei

Saturday, March 28, PM

Chair: HAGA, Masa-aki (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(3F2-28, 3F2-29, 3F2-30, 3F2-31, 3F2-32, 3F2-33)
3F2-28 Evaluation of electron delocalization of the dinuclear organometallic complexes with cyclopentadienyl ligands having carbonyl groups by IR spectroscopy. (Chem. Res. Lab., Tokyo Tech) ○TAKAHASHI, Hiroki; TANAKA, Yuya; AKITA, Munetaka
3F2-29 Synthesis and Redox Behavior of Nitrido-bridged Dinuclear Ruthenium(IV,IV) Complexes (Fac. Sci., Sophia Univ.) ○KAWAGUCHI, Shoko; SUMOGE, Yuka; MATSUYA, Kazuhiro; NAGAO, Hirotaaka
3F2-30 Electrochemical Behavior of Oxido-bridged Diruthenium Complexes Bearing Bis(2-pyridylmethyl)amine (Grad. Sch. of Sci. Technol., Sophia Univ.) ○WATANABE, Takashi; NAGAO, Hirotaaka
3F2-31 Selective syntheses of a series of hetero pentanuclear metal clusters and their electrochemical properties (SOKENDAI; IMS; Fukuoka Univ.; JST ACT-C) ○IZU, Hitoshi; OKAMURA, Masaya; VIJAYENDRAN, Praneeth; KATSUTA, Nagisa; KAWATA, Satoshi; KONDO, Mio; MASAOKA, Shigeyuki
3F2-32 Water Oxidation Catalyzed by the Dinuclear Ruthenium Complex Bridged by Bis(terpyridyl)anthraquinone (Grad. Sch. Sci., Rikkyo Univ.; Sch. Sci. Eng., Tokyo Denki Univ.) WADA, Tohru; MIYAZATO, Yuji; ○NISHIMURA, Shunsuke
3F2-33 Reactions of an Unsymmetrical Mononitrosyl Dinuclear Ruthenium Complex with Sulfur-containing Reagents (Grad. Sch. Eng., Nagasaki Univ.) ○OTSUBO, Yuji; TAKEUCHI, Yuki; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke

Ru

Chair: TANAKA, Yuya (14:40~15:40)

- * 14:30-14:40: interval for laptop PC connection.(3F2-35, 3F2-36, 3F2-37, 3F2-39)
3F2-35 Characteristic Evaluation of Storage Device Utilizing Proton-coupled Electron Transfer Reaction of Ru Complexes (Fac. Sci. Eng., Chuo Univ.) ○MOTOYAMA, Daisuke; YOSHIKAWA, Kai; OZAWA, Hiroaki; HAGA, Masa-aki
3F2-36 Electrochemical properties of carbon material with dinuclear ruthenium complex having mixed-valence state at ambient condition (Fac. Sci. Eng., Chuo Univ.) ○KATORI, Norihiko; KITA, Tomomi; OZAWA, Hiroaki; HAGA, Masa-aki
3F2-37 ^{*} Rectification and Photodiode Characteristics on Hetero-layer Films of Ru Dinuclear Complexes (Grad. Sch. Sci. Eng., Chuo Univ.) ○OZAWA, Hiroaki; NAGASHIMA, Takumi; HAGA, Masaaki
3F2-39 ^{*} Electrochemical characteristic of ruthenium complex having multipled anchors on the nano-carbon materials. (Fac. Sci. Eng., Chuo Univ.)

○OZAWA, Hiroaki; KOHMOTO, Mayuko; HAGA, Masa-aki

Chair: FUNAHASHI, Yasuhiro (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(3F2-42, 3F2-43, 3F2-44, 3F2-45, 3F2-46)

3F2-42 Formation of mesoscopic assembly of polynuclear metal complexes using molecular self-organization (Fac. Eng., Kyushu Univ.) ○FUJIOKA, Taro; ABE, Masaaki; ONO, Toshikazu; SHIMAKOSHI, Hisashi; YONEMURA, Hiroaki; YAMADA, Sunao; HISAEDA, Yoshio

3F2-43 Preparation and electrochromic behavior of electropolymerized thin films of porphyrin isomers (Grad. Sch. Eng., Kyushu Univ.) ○FUTAGAWA, Hiroki; ABE, Masaaki; ONO, Toshikazu; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio

3F2-44* Electronically-activated paddlewheel-type Ru dimer chains with a functionalized linker for enhancing NO Capture (IMR, Tohoku Univ.) ○ZHANG, Jun; KOSAKA, Wataru; SEKINE, Yoshihiro; TANIGUCHI, Koji; MIYASAKA, Hitoshi

3F2-45 Magnetic Properties of π -Stacked Pillared Layer Frameworks with Decamethylchromocenium Cations (IMR, Tohoku Univ.) ○FUKUNAGA, Hiroki; SEKINE, Yoshihiro; KOSAKA, Wataru; TANIGUCHI, Koji; MIYASAKA, Hitoshi

3F2-46* Ligand Exchange Reaction of N-Fused Porphyrin Ruthenium Complex (Grad. Sch. Eng., Kyushu Univ.) ○MATSUO, Hideaki; TOGANO, Motoki; ISHIDA, Masatoshi; SHIMIZU, Soji; FURUTA, Hiroyuki

Chair: SHIMAKOSHI, Hisashi (17 : 00~17 : 30)

* 16:50-17:00: interval for laptop PC connection.(3F2-49, 3F2-50)

3F2-49 Synthesis and properties of ruthenium terpyridyl complexes encapsulated in a cage-type ligand (Grad. Sch. Sci., Osaka Univ.; JST PRESTO) ○HARA, Kanae; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro

Yb

3F2-50* Dependence of Crystal Size on the Catalytic Performance of a Porous Coordination Polymer (iCeMS, Kyoto Univ.) ○HIGUCHI, Masakazu; KIYONAGA, Tomokazu; KITAGAWA, Susumu

Sunday, March 29, AM

Ru

Chair: FUJII, Sho (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4F2-01, 4F2-02, 4F2-03, 4F2-04, 4F2-05)

4F2-01 Incorporation of lipophilic Ru(salen) complexes into liposomes and NO transport (Fac. Sci., Kyushu Univ.) ○NAKANISHI, Keita; KOSHIYAMA, Tomomi; OHBA, Masaaki

4F2-02 Oxygen Evolution Reaction by Ruthenium Complex-liposome Composites (Fac. Sci., Kyushu Univ.) ○KANDA, Nao; IWATA, Koki; ASADA, Sana; HATAE, Tatsuhiro; KOSHIYAMA, Tomomi; OHBA, Masaaki

4F2-03 Redox property and electrical conductivity of Hofmann-type Ru(II)Ni(II) Porous Coordination Polymer (Grad. Sch. Sci., Kyushu Univ.) ○MISHIMA, Akio; KOSHIYAMA, Tomomi; OHBA, Masaaki

4F2-04 Incorporation of Metal Complexes into Channel-type Antibiotics and their functions (Grad. Sch. Sci., Kyushu Univ.) ○ASADA, Sana; HATAE, Tatsuhiro; KOSHIYAMA, Tomomi; OHBA, Masaaki

4F2-05* Preparation of Photosensitive Liposomes Containing Ruthenium(II) Aqua Complexes (Dept. Appl. Chem., Nat. Def. Acad.) ○HIRAHARA, Masanari; GOTO, Hironori; UMEMURA, Yasushi

Chair: OHBA, Masaaki (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4F2-08, 4F2-09, 4F2-10, 4F2-11, 4F2-12, 4F2-13)

4F2-08 Substrate oxidation by ruthenium(III)-pterin complexes through proton-coupled electron transfer (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○MITOME, Hiromi; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko

4F2-09 Light-driven Electrocatalytic Hydrogen Evolution Using a Ruthenium(II) Complex As a Catalyst (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SAWAKI, Takuya; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko

4F2-10 Kinetic isotope effects observed in substrate oxidation reactions by a Ru(V)-imido complex in acidic aqueous solutions (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○MAKINO, Misaki; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko

4F2-11 Synthesis and characterization of Ru complex containing NAD⁺/NADH model ligand (iCeMS, Kyoto Univ.) ○FUJII, Sho; TANAKA, Koji

4F2-12 Proton Induced Generation of Ru = C species (iCeMS, Kyoto Univ.) ○FUKUSHIMA, Takashi; KOBAYASHI, Katsuaki; TANAKA, Koji

4F2-13 Synthesis of a novel multinuclear transition metal complex bridged by a ligand with three-fold symmetry consisting of three catechol moieties (Sch. Eng., Osaka Univ.) ○NISHIMOTO, Aika; MORIMOTO, Yuma; ITOH, Shinobu

Chair: ISHIZUKA, Tomoya (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4F2-15, 4F2-16, 4F2-17, 4F2-18, 4F2-19)

4F2-15 Synthesis of multinuclear Ru-Fe metalladithiolene complexes (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○SAGAWA, Takuya; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro

4F2-16 Synthesis, attachment, and characterization of a new metal-porphyrin - Ru12 complex, for the preparation of composition-regulated bimetallic nanoclusters (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) ○YAMAGUCHI, Atsuki; MAENO, Tomoaki; MURATSUGU, Satoshi; TADA, Mizuki

4F2-17 Preparation and Characterization of New Silica-supported Ru Porphyrin Complexes for Molecularly Imprinted Catalysts (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) ○TANIMOTO, Tatsuya; TERAO, Yosuke; MURATSUGU, Satoshi; TADA, Mizuki

4F2-18 Synthesis of Dinaphtho[2,1-c:1'.2'-g]fluorenylruthenium (Grad. Sch. Eng., The Univ. of Tokyo) ○AKIYAMA, Midori; NOZAKI, Kyoko

4F2-19* Large scale synthesis of the ruthenium complex bearing NHC ligand for ROMP (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIMTEC corp.) ○KAMADA, Michiru; OSHIKI, Toshiyuki

Room F3
Bldg.11 1113

Coordination Chemistry, Organometallic Chemistry

Thursday, March 26, AM

Mg,B,Al,Ga,In

Chair: HIRASHITA, Tsunehisa (9 : 30 ~ 10 : 20)

* 9:20-9:30: interval for laptop PC connection.(1F3-04, 1F3-06, 1F3-07, 1F3-08)

1F3-04** Magnesium-Catalyzed Isomerization of Terminal Alkynes to Allenes and Internal Alkynes (Grad. Sch. Eng., Osaka Univ.) ○ROCHAT, Raphael; LOPEZ, Michael Joseph; NAGAE, Haruki; YAMAMOTO, Koji; TSURUGI, Hayato; MASHIMA, Kazushi

1F3-06** Visible Light-Induced Allylation of α -Halo Carbonyl Compounds with Allyltrifluoroborates by Organic Dye Catalysts (Grad. Sch. Eng., Osaka Univ.) ○ESUMI, Naoto; SUZUKI, Itaru; YASUDA, Makoto

1F3-07 Control of Lewis Acidity of Cage-Shaped Borate Complex Bearing Heterocycle Framework by UV Irradiation (Grad. Sch. Eng., Osaka Univ.) ○YASUNAGA, Ryosuke; NISHIMOTO, Yoshihiro; YASUDA, Makoto

1F3-08 Synthesis and Reactivity of Late Transition Metal Complexes with Phosphorus Ligands Containing Lewis Acidic Metals (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○SAITO, Teruhiko; NAKAO, Yoshiaki

Chair: TAKAYANAGI, Masayoshi (10 : 30~11 : 20)

* 10:20-10:30: interval for laptop PC connection.(1F3-10, 1F3-12, 1F3-13, 1F3-14)

1F3-10* Direct C-H Borylation of Arenes and Heteroarenes Catalyzed by Iridium Complex Immobilized on Crystal-like Bipyridine-bridged Periodic Mesoporous Organosilica (Toyota Central R&D Labs., Inc. Inagaki Senior Fellow Lab.) ○MAEGAWA, Yoshifumi; INAGAKI, Shinji

1F3-12 Mechanistic Investigation of Coupling Reaction between Enol Derivatives and Silyl Ketene Acetals Catalyzed by Gallium Tribromide (Grad. Sch. Eng., Osaka Univ.) NISHIMOTO, Yoshihiro; ○KITA, Yuji; YASUDA, Makoto; BABA, Akio

1F3-13 Indium-Catalyzed Direct Coupling of α -Alkoxy Ketones with Alcohols (Grad. Sch. Eng., Osaka Univ.) SUZUKI, Itaru; ○KAWAGUCHI, Nana; YASUDA, Makoto

1F3-14* Chelation effect on allylic indium reagents in ionic liquids (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○TAKAGI, Yuji; HIRASHITA, Tsunehisa; ARAKI, Shuki

Zn,Mo,W,Re

Chair: NISHIMOTO, Yoshihiro (11 : 30~12 : 20)

* 11:20-11:30: interval for laptop PC connection.(1F3-16, 1F3-18, 1F3-20)

1F3-16* Theoretical Study on Anisotropic Diffusion Behavior of Oligomers in One-Dimensional Channels of Porous Coordination Polymers (Grad. Sch. Info. Sci., Nagoya Univ.; Grad. Sch. Eng., Kyoto Univ.; iCeMS, Kyoto Univ.; CREST, JST) ○TAKAYANAGI, Masayoshi; UEMURA, Takashi; KITAGAWA, Susumu; NAGAOKA, Masataka

1F3-18* Synthesis and Catalytic Activity of Molybdenum Nitride Complexes Bearing a PPP Ligand (Grad. Sch. Eng., The Univ. of Tokyo) ○ARASHIBA, Kazuya; KURIYAMA, Shogo; KINOSHITA, Eriko; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

1F3-20 Metal-Sulfur Clusters with Molybdenum and First-Row Transition Metals: Synthesis and Reductive Activation of N₂ (Grad. Sch. Sci., Nagoya

Univ.) ○UCHIDA, Keisuke; TADA, Mizuki; OHKI, Yasuhiro

Thursday, March 26, PM

Chair: OHKI, Yasuhiro (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1F3-28, 1F3-29, 1F3-31, 1F3-32, 1F3-33)
- 1F3-28** Vinydene Rearrangement of Internal Alkyne at a Mo Complex (Fac. Sci. Eng., Chuo Univ.) ○OYAMA, Yousuke; IKEDA, Yousuke; KODAMA, Shintaro; ISHII, Youichi
- 1F3-29*** Preparation and Reactivity of Molybdenum-Dinitrogen Complexes Containing Azaferrrocenyl Pincer Ligand (Grad. Sch. Eng., The Univ. of Tokyo) ○KURIYAMA, Shogo; ARASHIBA, Kazuya; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 1F3-31** Synthesis and Catalytic Activity of Dinitrogen-Bridged Dimolybdenum-Dinitrogen Complex Bearing PCP-Type Pincer Ligands (Grad. Sch. Eng., The Univ. of Tokyo) ○EIZAWA, Aya; ARASHIBA, Kazuya; KURIYAMA, Shogo; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 1F3-32** Preparation and reactivity of PPP-type pincer complexes bearing a phosphabenzene unit (Grad. Sch. Eng., The Univ. of Tokyo) ○TANABE, Yoshiaki; ARASHIBA, Kazuya; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 1F3-33*** Synthesis and Characterization of Paramagnetic Tungsten Imido Complexes Bearing α -Diimine Ligands (Grad. Sch. Eng. Sci., Osaka Univ.) ○TANAHASHI, Hiromasa; TSURUGI, Hayato; MASHIMA, Kazushi

Chair: SUNADA, Yuusuke (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1F3-35, 1F3-36, 1F3-37, 1F3-39, 1F3-40)
- 1F3-35*** Synthesis and Reactivity of Tungsten Alkyldiyne Complexes Bearing Sulfur- and Oxygen-containing Tetradentate Ligand (Grad. Sch. Eng. Sci., Osaka Univ.) ○NISHIYAMA, Haruka; YAMAMOTO, Keishi; IKEDA, Hideaki; OKUDA, Jun; MASHIMA, Kazushi
- 1F3-36** Design and Synthesis of Novel Rhenium Complexes Bearing 2,2'-Bis(aminomethyl)-4,4'-Bipyridyl Ligand as an Electron-Accepting Unit (Grad. Sch. Eng., Nagoya Univ.) ○KAMATSUKA, Takuto; MIYAKE, Yoshihiro; SHINOKUBO, Hiroshi

Fe

- 1F3-37*** Theoretical study on disproportionation of hydrazine catalyzed by a multiproton-responsive pincer-type iron complex (ESICB, Kyoto Univ.; IMCE, Kyushu Univ.; Grad. Sch. Sci., Eng., Tokyo Tech) ○TANAKA, Hiromasa; HITAOKA, Seiji; UMEHARA, Kazuki; KUWATA, Shigeki; IKARIYA, Takao; YOSHIZAWA, Kazunari
- 1F3-39*** Synthesis of Asymmetric 1,2-Bis(phosphino)ethane in the Hydrophosphination Reaction Catalyzed by an Iron Complex (Grad. Sch. Sci., Osaka City Univ.) ○KATSUBE, Shinya; ITAZAKI, Masumi; NAKAZAWA, Hiroshi
- 1F3-40** Two-step Crystal to Crystal Phase Transition of [2]Pseudorotaxanes Composed of Dibenzo[24]crown-8-ether and Ferrocene-containing Dialkylammonium Salt (Chem. Res. Lab., Tokyo Tech) ○TADAMI, Hiroko; SUZAKI, Yuji; OSAKADA, Kohtaro

Chair: SUZAKI, Yuji (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1F3-42, 1F3-44, 1F3-45, 1F3-46, 1F3-47)
- 1F3-42*** Mechanistic Study for Alkene Hydrogenation by Iron Catalyst (IMCE, Kyushu Univ.) ○TAHARA, Atsushi; SUNADA, Yusuke; TANAKA, Hiromasa; NAGASHIMA, Hideo; YOSHIZAWA, Kazunari
- 1F3-44** Synthesis and Photochemical Reaction of a Diphenylphosphinogallyliron Complex (Grad. Sch. Sci. Tech., Gunma Univ.) ○MURAOKA, Takako; YAMADA, Tatsuya; UENO, Keiji
- 1F3-45** Photocatalytic Production of Hydrogen Peroxide from Water and Dioxygen Using Cyano-Bridged Polynuclear Transition Metal Complexes as Water Oxidation Catalysts (Grad. Sch. Eng., Osaka Univ.; ALCA, JST) ○ISAKA, Yusuke; SUENOBU, Tomoyoshi; YAMADA, Yusuke; FUKUZUMI, Shunichi
- 1F3-46** The novel synthetic method using tricarbonyl (vinylketenimine) iron complexes (Grad. Sch. Eng., KIT) ○URAKAWA, Akihiro; SATA, Naoki; KITAMURA, Mitsuru; OKAUCHI, Tatsuo
- 1F3-47** Synthesis of First-Row Transition Metal Complexes with Bis(aminomethyl)pyridine Ligands (Grad. Sch. Sci., Osaka Univ.; JSTPRESTO) ○HIGASHI, Tomoyuki; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro

Chair: MURAOKA, Takako (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(1F3-49, 1F3-50, 1F3-51, 1F3-53)
- 1F3-49** Hydrosilylation of Alkenes Catalyzed by New Iron Complexes (IMCE, Kyushu Univ.) ○NODA, Daisuke; SOEJIMA, Hiroe; MATSUZAKI, Yuka; TAHARA, Atsushi; SUNADA, Yusuke; NAGASHIMA, Hideo
- 1F3-50** Activation of metal salts by hydrosilanes leading to catalytic hydrosilylation of alkenes (IMCE, Kyushu Univ.) NODA, Daisuke;

SOEJIMA, Hiroe; MATSUZAKI, Yuka; TAHARA, Atsushi; SUNADA, Yusuke; ○NAGASHIMA, Hideo

- 1F3-51*** Selective Double-Hydrosilylation of Nitriles Catalyzed by an Iron Complex Containing Indium Trichloride (Grad. Sch. Sci., Osaka City Univ.) ○ITO, Masaki; ITAZAKI, Masumi; NAKASHIMA, Satoru; NAKAZAWA, Hiroshi
- 1F3-53*** Synthesis and behavior of novel iron complexes bearing pincer type Meso-Ionic Carbene (Fac. Sci., Fukuoka Univ.) ○IWASAKI, Haruka; KOGA, Yuji; MATSUBARA, Kouki

Friday, March 27, AM

Mn

Chair: KOSAKA, Wataru (9 : 00~9 : 40)

- * 8:50-9:00: interval for laptop PC connection.(2F3-01, 2F3-02, 2F3-03, 2F3-04)
- 2F3-01** Counter-ion effects on the magnetic properties of dicarboxylato-bridged [MnIII(salen)]²⁺ complexes having 2-D network structure (Sch. Sci., Tohoku Univ.) ○MAESHIMA, Kana; KAGESAWA, Koichi
- 2F3-02** Study for Single-Chain Magnet Like Behavior in (NH₄)₂MnF₅ (Sch. Sci., Tohoku Univ.) ○SATO, Junya; KAGESAWA, Koichi; BREEDLOVE, Brian K.; YAMASHITA, Masahiro
- 2F3-03** Efficient capture of CO₂ by Mn(I) complexes (Sch. Sci., Tokyo Tech) ○CHIBA, Hiroyuki; CHIBA, Hiroyuki; ISHITANI, Osamu
- 2F3-04** High efficient synthesis of chiral salen Mn(II), Co(II) complexes containing lysozyme by microfluidic device (Inst. Nanosci. & Nanotech., Waseda Univ.) ○TANAKA, Daiki; MURAKOSHI, Yumiri; TSUDA, Erika; MITSUMOTO, Yuya; YOON, Dong Hyun; SEKIGUCHI, Tetsushi; SHOJI, Shuichi; AKITSU, Takashiro

Friday, March 27, PM

Pd

Chair: OZAWA, Fumiyuki (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(2F3-25, 2F3-28, 2F3-29)
- 2F3-25** Young Scholar Lectures of CSJ Development of New Synthetic Reactions by Means of the Cooperation between Transition Metal Catalysts and Multiple Bonds (Research and Development Initiative, Chuo Univ.) ○MINAMI, Yasunori
- 2F3-28** Syntheses of Pd complexes containing BINAP unit as a photosensitizing ligand (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) ○SON, Changsu; NOMURA, Kotohiro; INAGAKI, Akiko
- 2F3-29*** Aqueous cross-coupling reaction using amphiphilic NHC-Pd catalyst (ISC, AIST; Fac. Sci. Technol., Tokyo Univ. of Sci.) ○TAIRA, Toshiaki; YANAGIMOTO, Takaya; SAKAI, Kenichi; SAKAI, Hideki; KITAMOTO, Dai; IMURA, Tomohiro

Chair: HAYASHI, Minoru (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(2F3-32, 2F3-34, 2F3-35, 2F3-36, 2F3-37)
- 2F3-32*** Chelate-Assisted Direct Selenation of Aryl C-H Bonds with Diselenides and Elemental Selenium Catalyzed by Palladium or Nickel (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Aichi Univ. of Educ. Dept. of Chem.) ○IWASAKI, Masayuki; TSUCHIYA, Yuta; NAKAJIMA, Kiyohiko; NISHIHARA, Yasushi
- 2F3-34** Palladium-Catalyzed Site-Selective Direct Chalcogenation of Naphthylamine Derivatives with Diaryl Disulfides and Diselenides (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Aichi Univ. of Educ. Dept. of Chem.) ○KANESHIMA, Wataru; TSUCHIYA, Yuta; IWASAKI, Masayuki; NAKAJIMA, Kiyohiko; NISHIHARA, Yasushi
- 2F3-35** Synthesis of Phenanthrenes by Palladium-Catalyzed Annulation of β -Halostyrenes with *o*-Bromobenzyl Alcohols (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; JST ACT-C) ○ARAKI, Yasuhiro; IINO, Shohei; IWASAKI, Masayuki; NISHIHARA, Yasushi
- 2F3-36** Synthesis of Heterobimetallic Complexes Utilizing N,P-Multidentate Ligand (Grad. Sch. Sci., Eng., Tokyo Tech) ○SAITO, Narumasa; TAKAYA, Jun; IWASAWA, Nobuharu
- 2F3-37** Arene Binding by Trinuclear Palladium Clusters (Sch. Physical Sci., SOKENDAI; IMS) ○ISHIKAWA, Yuki; KIMURA, Seita; YAMAMOTO, Koji; MURAHASHI, Tetsuro

Chair: INAGAKI, Akiko (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(2F3-39, 2F3-40, 2F3-41, 2F3-42, 2F3-43, 2F3-44)
- 2F3-39** Synthesis and Complexation Properties of Novel PNNNN-Type 1,8-Naphthyridine-Based Ligand Bearing Phosphine and Pyridine Moieties (Grad. Sch. Sci., Eng., Ehime Univ.) ○HTA, Hidetoshi; ○IMADA, Yuji; HAYASHI, Minoru; WATANABE, Yutaka
- 2F3-40** Synthesis and Properties of Linear Tetrapalladium Complexes with Axial Isocyanide Ligands (Fac. Sci., Nara Women's Univ.) ○NAKAMAE, Kanako; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 2F3-41** Reaction of allyl carbonates with tetrafluoroethylene in the presence of palladium catalyst (Grad. Sch. Eng., Osaka Univ.) ○ADACHI, Takuya;

KIKUSHIMA, Kotaro; OHASHI, Masato; OGOSHI, Sensuke

- 2F3-42** Reactivity of Benzylpalladium Complexes Having SNS Ligands toward Oxygen (Fac. Sci., Nara Women's Univ.) ○SHIMOKAWA, Reina; KAWADA, Yumi; URA, Yasuyuki; KATAOKA, Yasutaka
- 2F3-43** Mechanistic Study on Pd/Xantphos-Catalyzed Arylfluorination of Allenes with CsF/ArI/18-crown-6 (Sch. Eng., Osaka Univ.) ○NAKAJIMA, Takuya; KUNUYASU, Hitoshi; WAKASA, Takashi; SANAGAWA, Atsushi; IWASAKI, Takanori; KAMBE, Nobuaki
- 2F3-44** Allylic Arylation in Water with a Vesicular Catalyst of a Self-Assembled Amphiphilic NNC-Pincer Palladium Complex (Sch. Physical Sci., SOKENDAI; IMS) ○SAKURAI, Fumie; HAMASAKA, Go; UOZUMI, Yasuhiro

Chair: KUNUYASU, Hitoshi (16 : 30~17 : 40)

- * 16:20-16:30: interval for laptop PC connection.(2F3-46, 2F3-47, 2F3-48, 2F3-49, 2F3-50, 2F3-51, 2F3-52)
- 2F3-46** A Dual-Ligand Approach to Direct Arylation Polymerization: Mechanism inducing High Selectivity (ICR, Kyoto Univ.) ○IIZUKA, Eisuke; WAKIOKA, Masayuki; OZAWA, Fumiyuki
- 2F3-47** Synthesis of donor-acceptor conjugated polymers with diketopyrrolopyrrole units via direct arylation polymerization (ICR, Kyoto Univ.) ○TAKAHASHI, Rina; WAKIOKA, Masayuki; OZAWA, Fumiyuki
- 2F3-48** Palladium-catalyzed reaction of alkynyl aryl ethers with alkenes proceeds through C-H activation (Grad. Sch. Sci. Eng., Chuo Univ.) ○KODAMA, Tatsuro; MINAMI, Yasunori; SHIRAIISHI, Yuki; HIYAMA, Tamejiro
- 2F3-49** Palladium-Catalyzed Annulation of Alkynyl Aryl Ethers with Allyl Pivalates (Chuo Univ. Faculty of Science and Engineering) ○SAKAI, Megumi; MINAMI, Yasunori; HIYAMA, Tamejiro
- 2F3-50[#]** Double Stille Coupling Reaction of Bicyclic Stannolane Derivatives. (Grad. Sch. Med., Yamaguchi Univ.) ○TANAKA, Toshiyuki; KAMIMURA, Akio

Ru

- 2F3-51** Reactions of Alkoxido Ruthenium Complexes having a CNC-type Pincer Ligand (Grad. Sch. Eng., Nagasaki Univ.) ○NAKAMURA, Takuo; OHGUSHI, Shinji; EGUUCHI, Kazushige; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke
- 2F3-52** Photochemical CO₂ Reduction using Ruthenium Complexes having a Pincer-type Bis(carbene) Ligand (Grad. Sch. Eng., Nagasaki Univ.) ○TAJIRI, Hiroki; NAKAMURA, Takuo; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke

Saturday, March 28, AM

Ru

Chair: ARIKAWA, Yasuhiro (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3F3-01, 3F3-02, 3F3-03, 3F3-04, 3F3-05, 3F3-06)
- 3F3-01[#]** Catalytic Linear Cross-Dimerization between Conjugated Diene and Alkene by Ruthenium(II) Complexes with Reductant (Inst. Eng., Tokyo Univ. of Agri. and Technol.; ACT-C, JST; Australia National University Research School of Chemistry) ○UEDA, Takao; KOBAYASHI, Hideyuki; KOMINE, Nobuyuki; KOMIYA, Sanshiro; HIRANO, Masafumi; COLEBATCH, Annie. L.; BENNETT, Martin. A.
- 3F3-02** Aerobic oxidation of 5-hydroxymethyl-2-furfural with Ru complexes as a catalyst. (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○YANAGI, Kota; KUWABARA, Junpei; KANBARA, Takaki
- 3F3-03** Synthesis and Reactivity of Protic Pincer-type Pyrazole Complexes Bearing Electron-withdrawing Substituents (Grad. Sch. Sci., Eng., Tokyo Tech) ○NAKAHARA, Yoshiko; TODA, Tatsuro; KUWATA, Shigeki
- 3F3-04** Remote Rearrangement of the Metal Center in a (η^6 -C₆Me₆)Ru(II) Complex (Grad. Sch. Sci. Eng., Chuo Univ.) ○TAKANO, Koichi; IKEDA, Yousuke; KODAMA, Shintaro; ISHII, Youichi
- 3F3-05** Effect of Base on the Deprotonation of a Diruthenium Imido Methylidene Complex (Fac. Sci., Osaka Pref. Univ.) ○YAMAGUCHI, Masahiro; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki
- 3F3-06** Synthesis of Copper Complex Containing a Diruthenocarbene Ligand (Fac. Sci., Osaka Pref. Univ.) ○TSUJITA, Masayuki; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki

Chair: MATSUZAKA, Hiroyuki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3F3-08, 3F3-09, 3F3-10, 3F3-12, 3F3-13)
- 3F3-08** An Ene-Yne Coupling Reaction Catalyzed by Ruthenium Complexes Ligated by a Bis(silyl)xanthene Derivative Xantsil (Grad. Sch. Sci., Tohoku Univ.) ○KITANO, Takeo; KOMURO, Takashi; TOBITA, Hiromi
- 3F3-09** Reactivity of a Triruthenium trihydrido complex having a carbonyl ligand toward unsaturated hydrocarbons (Grad. Sch. Sci., Eng., Tokyo Tech) ○TAKAHASHI, Yuta; TAKAO, Toshiro
- 3F3-10[#]** Development of Practical Catalytic System for Ru-Catalyzed C-H Arylation and Application to Practical Synthesis of Pharmaceuticals (API Corporation Healthcare Business Division II) ○SEKI, Masahiko

- 3F3-12** Reactivity of linear heterometallic polyhydrido complex composed of ruthenium and platinum (Grad. Sch. Sci., Eng., Tokyo Tech) ○KUZUTANI, Takuya; TAKAO, Toshiro
- 3F3-13** Synthesis of Bis(μ -silylyne) Complex (Grad. Sch. Sci., Eng., Tokyo Tech) ○TSURUDA, Hiroyuki; NAGAOKA, Masahiro; TAKAO, Toshiro; HIROHARU, Suzuki

Chair: TAKEMOTO, Shin (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3F3-15, 3F3-16, 3F3-17, 3F3-19)
- 3F3-15** Reactions of β -Protic Bifunctional Catalysts with Cyclic Allylic Compounds (Grad. Sch. Sci., Eng., Tokyo Tech) ○OHTA, Satomi; KUWATA, Shigeki; IKARIYA, Takao
- 3F3-16** Synthesis of a paramagnetic triruthenium benzyne complex supported by a μ -s-sulfido ligand and transformation of the benzyne ligand to phenol (Grad. Sch. Sci., Eng., Tokyo Tech) ○CHIKAMORI, Hiroki; TAHARA, Atsushi; TAKAO, Toshiro; SUZUKI, Hiroharu
- 3F3-17^{*}** Rational Synthesis of a Triruthenium Tetrahydride Cluster Capped by a Triply Bridging Oxoboryl Ligand (Grad. Sch. Sci., Eng., Tokyo Tech) ○KANEKO, Takeshi; TAKAO, Toshiro; SUZUKI, Hiroharu

Co,Rh

- 3F3-19[#]** Cobalt-Catalyzed Transformation of Molecular Dinitrogen under Ambient Conditions (Grad. Sch. Eng., The Univ. of Tokyo) ○IMAYOSHI, Ryuji; YUKI, Masahiro; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

Saturday, March 28, PM

Chair: NAKAJIMA, Takayuki (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3F3-28, 3F3-29, 3F3-31, 3F3-32, 3F3-33)
- 3F3-28** Hydroboration of Alkenes Catalyzed by Cobalt NHC Complex (Fac. Sci., Fukuoka Univ.) ○KAKU, Shogo; MATSUBARA, Kouki; KOGA, Yuji
- 3F3-29^{*}** Reactivity of anionic diarylrhodium complexes: cross-coupling reaction of vinyl ethers with aryl Grignard reagents (Grad. Sch. Eng., Osaka Univ.) ○IWASAKI, Takanori; MIYATA, Yoshinori; AKIMOTO, Ryo; FUJII, Yuuki; KUNUYASU, Hitoshi; KAMBE, Nobuaki
- 3F3-31** Synthesis of rhodium complexes ligated by bidentate phosphines having wall-like fluorene structure (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) ○MATSUSAKA, Yuko; NOMURA, Kotohiro; INAGAKI, Akiko
- 3F3-32** Synthesis of Unsymmetrical PNP-Pincer Type Phosphaalkene Ligands with Rind Groups: Application to Rhodium and Iridium Complexes (ICR, Kyoto Univ.; Fac. Sci. Eng., Kinki Univ.) ○TAGUCHI, Hiroomi; SASAKI, Daichi; CHANG, Yung-hung; TAKEUCHI, Katsuhiko; TSUJIMOTO, Shota; MATSUO, Tsukasa; OZAWA, Fumiyuki
- 3F3-33** 1,4- and 1,5-Migration of the Rhodium(III) Center Involved Vinylidene Insertion as a Key Step (Fac. Sci. Eng., Chuo Univ.) ○NAKAMURA, Takayuki; IKEDA, Yousuke; KODAMA, Shintaro; ISHII, Youichi

Chair: KODAMA, Shintaro (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3F3-35, 3F3-36, 3F3-37, 3F3-38, 3F3-39, 3F3-40)
- 3F3-35** Oxidative Addition of HCl onto Electron-deficient Dinuclear Rhodium Centres Supported by a Tetrakisphosphine Ligand (Fac. Sci., Nara Women's Univ.) ○MATSUI, Aya; SAKAMOTO, Miyuki; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 3F3-36[#]** Confining phosphines derived from cyclodextrins for highly selective carbon-carbon bond forming reactions (Chem. Res. Lab., Tokyo Tech) ○JOUFFROY, Matthieu; TAKEUCHI, Daisuke; OSAKADA, Kohtaro; ARMSPACH, Dominique; MATT, Dominique
- 3F3-37** Syntheses and Reactivities of Novel Rhodium Complexes Bearing Tridentate PNO Ligands Containing 8-Quinolinate and Phosphine Moieties (Fac. Sci. Tech., Keio Univ.) ○TAKANO, Shotaro; KOCHI, Takuya; KAKIUCHI, Fumitoshi

Ir

- 3F3-38** Synthesis and Properties of Half-Sandwich Alkyliridium and Alkylrhodium Complexes Bearing Protic C-N Chelate Amine Ligands (Grad. Sch. Sci., Eng., Tokyo Tech) ○HIRASHIMA, Ryo; SATO, Yasuhiro; KUWATA, Shigeki; KAYAKI, Yoshihito
- 3F3-39** Transfer Hydrogenation of Carbon Dioxide Using 2-Propanol Catalyzed by Bifunctional C-N Chelate Ir Complexes (Grad. Sch. Sci., Eng., Tokyo Tech) ○SATO, Yasuhiro; KAYAKI, Yoshihito; IKARIYA, Takao
- 3F3-40** Synthesis and Reactivity of 16-electron Iridium(III) Complex Having a 9-Triptyceneselenolato Ligand (Grad. Sch. Sci., Eng., Saitama Univ.) ○SHIBATA, Chika; NAKATA, Norio; ISHII, Akihiko

Chair: KOCHI, Takuya (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3F3-42, 3F3-43, 3F3-44, 3F3-45, 3F3-46, 3F3-47)
- 3F3-42[#]** Ir-Catalyzed Asymmetric Tishchenko Type Reaction (ISIR, Osaka Univ.) SUZUKI, Takeyuki; ○ISMIYARTO, Ismiyarto; ZHOU, Da-yang;

ASANO, Kaori; SASAI, Hiroaki

- 3F3-43** Preparation of the Ir(III) Alkenyl Silyl Ether Complex Bearing the Ind-P Ligand (Fac. Sci., Nara Women's Univ.) OOGOTO, Akane; URA, Yasuyuki; KATAOKA, Yasutaka
- 3F3-44** Competition between Vinylidene Rearrangement and [1,2] Insertion of Internal Alkynes at a Cp*Ir(III) Complex (Grad. Sch. Sci. Eng., Chuo Univ.) OIKEDA, Yousuke; KODAMA, Shintaro; ISHII, Youichi
- 3F3-45** Transformation of Oxime Esters into α -Substituted Imines in an Ir Complex. (Grad. Sch. Sci. Eng., Chuo Univ.) OTAKAHASHI, Hiroyuki; KODAMA, Shintaro; ISHII, Youichi
- 3F3-46** Intramolecular C-F Bond Cleavage and C-H Bond Cleavage of DPEN-Ir Complexes Having 2,3,4,5-Tetrafluorobenzenesulfonyl Group (Grad. Sch. Sci., Eng., Tokyo Tech) O MATSUNAMI, Asuka; KAYAKI, Yoshihito; IKARIYA, Takao
- 3F3-47** Ge-F Bond Cleavage Induced by an Iridium Hydride Complex: Study on Reaction Mechanism (Grad. Sch. Sci., Osaka Pref. Univ.; Grad. Sch. Sci., Osaka City Univ.) OIKEDA, Koki; KAMEO, Hajime; NAKAZAWA, Hiroshi; MATSUZAKA, Hiroyuki

Chair: OKAMOTO, Kazuhiro (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(3F3-49, 3F3-50, 3F3-51, 3F3-52)
- 3F3-49** An Si-H/D Exchange Reaction of Tertiary Silanes via C-D Bond Activation of Deuterated Benzene Catalyzed by an Iridium Complex Bearing an SiNN-Type Tridentate Ligand (Grad. Sch. Sci., Tohoku Univ.) OSAWA, Tomohiro; KOMURO, Takashi; TOBITA, Hiromi
- 3F3-50** Synthesis and Properties of Blue Luminescent Iridium Complexes Containing Triazine Substituent (Grad. Sch. Sci., Josai Univ.) O MUROGA, Masaki; HASHIMOTO, Masashi
- 3F3-51** Catalytic Transfer Dehydrogenation of Alkanes by Using Ir-Complexes Bearing an *i*-Pr Substituted PBP Ligand (Fac. Sci. Eng., Chuo Univ.; Grad. Sch. Sci. Eng., Chuo Univ.) OTANOUE, Keita; YAMASHITA, Makoto
- 3F3-52** Catalytic Dehydrogenation of Alkanes By Using Ir Complexes Bearing Long-Tethered P-B-P Ligand (Grad. Sch. Sci. Eng., Chuo Univ.) OKAWAI, Yasushi; KAMAKURA, Sei; YAMASHITA, Makoto

Sunday, March 29, AM

Ir

Chair: YAMASHITA, Makoto (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4F3-01, 4F3-02, 4F3-03, 4F3-05)
- 4F3-01** Synthesis of P-Chiral Bisphosphine Ligands Bearing Alkyne Moieties in Their Backbones and Their Complexation with Iridium (Grad. Sch. Eng., Kyoto Univ.) OKAMOTO, Kazuhiro; OSASAKURA, Kohei; OHE, Kouichi
- 4F3-02** Synthesis of HOMSi reagents by Ir-catalyzed C-H silylation of heterocycles and alkenes with hydrosilanes (Grad. Sch. Sci. Eng., Chuo Univ.) OKOMIYAMA, Takeshi; MINAMI, Yasunori; HIYAMA, Tamejiro
- 4F3-03*** Bio-inspired Ir Complexes for Highly Efficient Hydrogen Generation from Dehydrogenation of Formic Acid in Water (ETRI, AIST) OXU, Shaoan
- 4F3-05*** CO₂ Hydrogenation Catalyzed by Ir Complex Bearing Azole Derivative Ligand (ETRI, AIST) ONISHI, Naoya; MANAKA, Yuichi; XU, Shaoan; FUJITA, Etsuko; MUCKERMAN, James T.; HIMEDA, Yuichiro

Ni

Chair: TANABE, Makoto (10 : 10~11 : 20)

- * 10:00-10:10: interval for laptop PC connection.(4F3-08, 4F3-10, 4F3-11, 4F3-12, 4F3-13, 4F3-14)
- 4F3-08*** Development of Practical Synthesis of (η^6 -Arene)Ni(*N*-Heterocyclic Carbene)Complexes (Grad. Sch. Eng., Osaka Univ.) OHAYASHI, Yukari; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke
- 4F3-10** Reactivity of a seven-membered 1,2-oxanickelacycle toward carbon monoxide and isocyanides (Grad. Sch. Sci., Eng., Saitama Univ.) OKOBAYASHI, Hiroki; NAKATA, Norio; ISHII, Akihiko
- 4F3-11** Buchwald-Hartwig Amination of Aryl Halides Catalyzed by Ni(I) complexes and studies on the Reaction Mechanism (Fac. Sci., Fukuoka Univ.) OINATOMI, Takahiro; KOGA, Yuji; MATSUBARA, Kouki
- 4F3-12** Nickel catalyzed hydroarylation of alkene with aryl boronic acid ester (Fac. Sci., Fukuoka Univ.) ONONAKA, Keita; KOGA, Yuji; MATSUBARA, Kouki
- 4F3-13*** Regio selective hydrosilylation of dienes using bis(acetylacetonato) nickel(II) as a catalyst precursor (IRC3, AIST) OSRINIVAS, Venu; NAKAJIMA, Yumiko; SATO, Kazuhiko; SHIMADA, Shigeru; ANDO, Wataru
- 4F3-14** Theoretical study on the reaction mechanism of olefin hydrosilylation catalyzed by a cationic nickel allyl complex (AIST) OCHOE, Yoong-kee; MATHEW, Jomon; NAKAJIMA, Yumiko; SHIMADA, Shigeru; SATO, Kazuhiko

Pt

Chair: OOHASHI, Masato (11 : 30~12 : 30)

- * 11:20-11:30: interval for laptop PC connection.(4F3-16, 4F3-17, 4F3-18, 4F3-20, 4F3-21)
- 4F3-16** Preparation of Cyclic Oligosilane Platinum Complexes with Planar Conjugated Substituents (Chem. Res. Lab., Tokyo Tech) OIWASE, Shunsuke; TAKAHASHI, Atsushi; TANABE, Makoto; OSAKADA, Kohtaro
- 4F3-17** Coordinatively Unsaturated Diplatinum and Dipalladium Complexes: Bond Activation and Bond Formation of Unsaturated Organic Compounds (Chem. Res. Lab., Tokyo Tech) ONAKAMURA, Yu; TANABE, Makoto; OSKADA, Kohtaro
- 4F3-18*** Reactivity Control of Multimetallic Sub-nanocluster Catalysts for Oxidation Reactions (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) OMASAKI, Takahashi; HIROMU, Koizumi; TAKANE, Imaoka; KIMIHISA, Yamamoto
- 4F3-20** *Anti* Dinuclear Palladium and Platinum Complexes of Seven-membered Unsaturated Carbocycles (Sch. Physical Sci., SOKENDAI; IMS) OTERAMOTO, Masahiro; USUI, Kentaro; YAMAMOTO, Koji; MURAHASHI, Tetsuro
- 4F3-21** Insertion of an isocyanide molecule to the metal-pyridine bond in the NCN pincer Pt complex (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OKUWABARA, Junpei; YAMAWAKI, Kazuma; KANBARA, Takaki

Room F4

Bldg.11 1121

Coordination Chemistry, Organometallic Chemistry

Thursday, March 26, AM

Si-substituted π -Electron Systems

Chair: SETAKA, Wataru (9 : 50 ~ 10 : 40)

- * 9:40-9:50: interval for laptop PC connection.(1F4-06, 1F4-07, 1F4-08, 1F4-09, 1F4-10)
- 1F4-06** Synthesis of Novel π -system Linked Cyclobutadienes and Their Reactivities (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OKOBAYASHI, Yuzuru; NAKAMOTO, Masaaki; SEKIGUCHI, Akira
- 1F4-07** Synthesis and reactivity of tetrahedran and cyclobutadiene with strong electron-withdrawing group (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OSHOJI, Yukako; INAGAKI, Yusuke; NAKAMOTO, Masaaki; SKIGUCHI, Akira
- 1F4-08** Synthesis and reactivity of phosphino tetrahedrane (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OIWASAKI, Mako; IKEDA, Yuri; NAKAMOTO, Masaaki; SEKIGUCHI, Akira
- 1F4-09** Structural Studies on Hexaphenylbenzene Hexaanion (Kinki Univ.) OMAEDE, Tomoki; TANIKAWA, Tomoharu; HASHIZUME, Daisuke; MATSUO, Tsukasa
- 1F4-10** Synthesis and Structures of Lithium Alkoxytris(dimethylphenylsilyl) borates (Grad. Sch. Sci. Tech., Gunma Univ.; Gunma Univ. Human Resources Cultivation Center) OYOSHIDA, Keisuke; TSURUSAKI, Akihiro; KYUSHIN, Soichiro

Si,Ge,Sn compound: Structure and Reactivity

Chair: NAMAMOTO, Masaaki (10 : 50~11 : 30)

- * 10:40-10:50: interval for laptop PC connection.(1F4-12, 1F4-13, 1F4-14, 1F4-15)
- 1F4-12** Synthesis and Structure of Silyl-substituted Selenophene-1,1-dioxide (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) OMASUDA, Toshiyuki; INAGAKI, Yusuke; YAMAGUCHI, Kentaro; SETAKA, Wataru
- 1F4-13** Synthesis and Gear Slippage of a Novel Molecular Gear with a Germanium Junction (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) OOKAMURA, Kazuma; INAGAKI, Yusuke; SETAKA, Wataru
- 1F4-14** Structural analysis of metal hydride compounds using crystalline sponge method (Grad. Sch. Eng., The Univ. of Tokyo; JAEA; CROSS) OTAKAHASHI, Yuki; YOSHIOKA, Shota; OHHARA, Takashi; NAKAO, Akiko; HANASHIMA, Takayasu; INOKUMA, Yasuhide; FUJITA, Makoto
- 1F4-15*** Kinetic Study and Substituent Effects on the Direct Radical Substitution Reaction on Tin Atom (Grad. Sch. Med., Yamaguchi Univ.) OYOSHINAGA, Tatsuro; MIYAZAKI, Koichiro; KAMIMURA, Akio

Jing-dong; NAGASE, Shigeru; TOKITOH, Norihiro

Thursday, March 26, PM

Si multicyclic compound

Chair: MATSUO, Tsukasa (12 : 40~13 : 40)

* 12:30-12:40: interval for laptop PC connection.(1F4-23, 1F4-24, 1F4-25, 1F4-26, 1F4-27)

1F4-23 Effects of Bridgehead Silyl Groups on the Structure of 1,3-Disilabicyclo[1.1.0]butane (Grad. Sch. Sci., Tohoku Univ.)
○KOBAYASHI, Akifumi; ISHIDA, Shintaro; IWAMOTO, Takeaki

1F4-24 Transition Metal Catalyzed Functionalization of Hydrooligosilanes (Grad. Sch. Sci. Tech., Gunma Univ.) ○AIKAWA, Yumi; KANNO, Ken-ichiro; KYUSHIN, Soichiro

1F4-25 Transformation of a Pentacyclic Molecular Silicon Cluster (Grad. Sch. Sci., Tohoku Univ.) ○AKASAKA, Naohiko; ISHIDA, Shintaro; IWAMOTO, Takeaki

1F4-26 Synthesis and Properties of Decasilahexahydrotriquinacene (Grad. Sch. Sci. Tech., Gunma Univ.; Gunma Univ. Human Resources Cultivation Center) ○KOYAMA, Yu; TSURUSAKI, Akihiro; KYUSHIN, Soichiro

1F4-27* Synthesis and Properties of Tetrasilane-Bridged Bicyclo[4.1.0]heptasil-1(6)-ene (Grad. Sch. Sci. Tech., Gunma Univ.; Gunma Univ. Human Resources Cultivation Center) ○TSURUSAKI, Akihiro; KAMIYAMA, Jun; KYUSHIN, Soichiro

Group 14,15 elements multicyclic compound

Chair: AGOU, Tomohiro (13 : 50~14 : 40)

* 13:40-13:50: interval for laptop PC connection.(1F4-30, 1F4-31, 1F4-32, 1F4-33, 1F4-34)

1F4-30 Polysilyne : New Anode Active Materials for Li-ion Battery (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; Toyota Central R&D Labs., Inc.)
○MARUYAMA, Hitoshi; NAKANO, Hideyuki; NAKAMOTO, Masaaki; SEKIGUCHI, Akira

1F4-31 Trapping of an Intermediate in the Thermal Isomerization from Octasilacuneane to Octasilacubane (Grad. Sch. Sci. Tech., Gunma Univ.; Gunma Univ. Human Resources Cultivation Center) ○NARAHARA, Shinji; TSURUSAKI, Akihiro; KYUSHIN, Soichiro

1F4-32 Cationic pyramidenes with the apical heavier group 15 element (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SUGASAWA, Haruka; ITO, Yuki; LEE, Vladimir; SEKIGUCHI, Akira; GAPURENKO, Olga; MINYAEV, Ruslan; MINKIN, Vladimir

1F4-33 In search for hybrid pyramidenes with the Si4-base and heaviest group 14/group 15 element at the apex (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○MEGURO, Takahiko; LEE, Vladimir Ya.; SEKIGUCHI, Akira; GAPURENKO, Olga A.; MINYAEV, Ruslan M.; MINKIN, Vladimir I.

1F4-34 Synthesis of 1,1-Dichlorocyclopentasilane (Grad. Sch. Sci. Tech., Gunma Univ.; Gunma Univ. Human Resources Cultivation Center)
○KOBAYASHI, Atsushi; TSURUSAKI, Akihiro; KYUSHIN, Soichiro

Si, Ge double bond compound

Chair: ICHINOHE, Masaaki (14 : 50~15 : 30)

* 14:40-14:50: interval for laptop PC connection.(1F4-36, 1F4-37, 1F4-38, 1F4-39)

1F4-36 Synthesis of Novel Disilene with Polycyclic Silicon Frameworks (Grad. Sch. Sci., Tohoku Univ.) ○YOKOUCHI, Yuki; ISHIDA, Shintaro; IWAMOTO, Takeaki

1F4-37 Synthesis of Pyrenyl-Substituted Disilenes Stabilized by the Bulky Rind Groups (Fac. Sci. Eng., Kinki Univ.) ○HAYAKAWA, Naoki; KOBAYASHI, Megumi; HASHIZUME, Daisuke; TAMAO, Kohei; FUENO, Hiroyuki; TANAKA, Kazuyoshi; MATSUO, Tsukasa

1F4-38 Synthesis and Structure of Germyl-substituted Digermene and Germenoid (ICR, Kyoto Univ.) ○EGAWA, Yasunobu; MIZUHATA, Yoshiyuki; SASAMORI, Takahiro; TOKITOH, Norihiro

1F4-39 Synthesis of Germanium Ketone Homologues Stabilized by the Bulky Rind Groups (Fac. Sci. Eng., Kinki Univ.) ○FUJITA, Naoko; MORIMOTO, Tatsuto; LI, Liangchun; HASHIZUME, Daisuke; TAMAO, Kohei; FUENO, Hiroyuki; TANAKA, Kazuyoshi; MATSUO, Tsukasa

Si, Ge triple bond compound

Chair: ISHIDA, Shintaro (15 : 40~16 : 20)

* 15:30-15:40: interval for laptop PC connection.(1F4-41, 1F4-42, 1F4-43)

1F4-41 Reaction of Disilyne with various Ketones (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○URAYAMA, Kazuho; ICHINOHE, Masaaki; SEKIGUCHI, Akira

1F4-42 Synthesis and Structure of NHC adduct of Silylthio-substituted Disilyne (Sch. Sci. Eng., Univ. of Tsukuba) ○HATTORI, Futa; ASAY, Matthew; ICHINOHE, Masaaki; SEKIGUCHI, Akira

1F4-43* Reactions of a Stable Digermyne, a Germanium-Germanium Triple-bond Compound, with olefins (ICR, Kyoto Univ.; Kyoto Univ. Fukui Institute for Fundamental Chemistry) ○SASAMORI, Takahiro; SUGAHARA, Tomohiro; SUGAMATA, Koh; AGOU, Tomohiro; GUO,

Chair: IWAMOTO, Takeaki (16 : 30~17 : 30)

* 16:20-16:30: interval for laptop PC connection.(1F4-46)

1F4-46 CSJ Award for Creative Works Creation of Exotic π -Electron Systems by Introduction of Heavier Elements and Expansion of Concept of Aromaticity (Grad. Sch. Sci., Eng., Saitama Univ.) ○SAITO, Masaichi

Friday, March 27, AM

Cr

Chair: YAMADA, Tepei (9 : 00~9 : 40)

* 8:50-9:00: interval for laptop PC connection.(2F4-01, 2F4-03, 2F4-04)

2F4-01* Control of the reactivity of Chromium(V)-Oxo Complexes in Hydrogen-Atom Transfer Reactions (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○KOTANI, Hiroaki; KAIDA, Suzue; ISHIZUKA, Tomoya; KOJIMA, Takahiko

2F4-03 Hydrogen Adsorption and Ortho-Para Conversion in Cyanide-Bridged Porous Magnets (Fac. Sci., Kyushu Univ.) ○OHTSUBO, Yuta; MISHIMA, Akio; HORI, Akihiro; KOSHIYAMA, Tomomi; OHBA, Masaaki

2F4-04 Acetic acid adsorption properties of thermally stable coordination polymers (Fac. Sci., Kyushu Univ.; RIKEN Spring-8 Center; CREST, JST) ○YOSHIMARU, Shotaro; SADAKEYO, Masaaki; KATO, Kenichi; YAMAUCHI, Miho

Friday, March 27, PM

Al,Ge,Sn aromatic compound

Chair: NAKATA, Norio (13 : 10~14 : 10)

* 13:00-13:10: interval for laptop PC connection.(2F4-26, 2F4-28, 2F4-29, 2F4-30, 2F4-31)

2F4-26* Synthesis of Halogen-substituted Alumoles and Their Reactivities towards Alkynes (ICR, Kyoto Univ.) ○WASANO, Tatsuya; AGOU, Tomohiro; SASAMORI, Takahiro; TOKITOH, Norihiro

2F4-28 Synthesis and Structure of a Stable 1,2-Digermabenzene (ICR, Kyoto Univ. Fukui Institute for Fundamental Chemistry)
○SUGAHARA, Tomohiro; SASAMORI, Takahiro; AGOU, Tomohiro; GUO, Jing-dong; NAGASE, Shigeru; TOKITOH, Norihiro

2F4-29 Synthesis and Properties of Neutral Heterobimetallic Triple-decker Complex Bearing a Dianionic Stannole. (Grad. Sch. Sci., Eng., Saitama Univ.; Kyoto Univ. Fukui Institute for Fundamental Chemistry) ○MATSUNAGA, Naoki; FURUKAWA, Shunsuke; GUO, Jing-dong; NAGASE, Shigeru; SAITO, Masaichi

2F4-30 Synthesis and Properties of Germaphenylpotassium (Grad. Sch. Sci., Kyoto Univ.) ○FUJIMORI, Shiori; MIZUHATA, Yoshiyuki; SASAMORI, Takahiro; TOKITOH, Norihiro

2F4-31 Synthesis and Properties of Pentasilahomobutadiene (Grad. Sch. Sci., Tohoku Univ.) ○KOSAI, Tomoyuki; ISHIDA, Shintaro; IWAMOTO, Takeaki

Si,Ge,Sn divalent compound

Chair: KAWACHI, Atsushi (14 : 20~15 : 20)

* 14:10-14:20: interval for laptop PC connection.(2F4-33, 2F4-36, 2F4-37)

2F4-33 CSJ Award for Young Chemists Striking Reactivity of Functionalized Silylenes and Catalytic Applications of Bis(silylene) Transition Metal Complexes (TU Berlin Institut für Chemie) ○INOUE, Shigeyoshi

2F4-36 Reactions of Lewis-base stabilized silylenes with azide compounds (Grad. Sch. Sci., Eng., Saitama Univ.; Université Paul Sabatier LHFA; RIKEN CEMS) ○TAKANORI, Watanabe; NORIO, Nakata; DAISUKE, Hashizume; TSUYOSHI, Kato; ANTOINE, Baceiredo

2F4-37* Synthesis, Structures and Reactions of Dialkylsilylene-Group 11 Transition Metal Complexes (Grad. Sch. Sci., Tohoku Univ.) ○INAGAWA, Yuichiro; ISHIDA, Shintaro; IWAMOTO, Takeaki

Chair: KANNO, Ken-ichiro (15 : 30~16 : 20)

* 15:20-15:30: interval for laptop PC connection.(2F4-40, 2F4-41, 2F4-43, 2F4-44)

2F4-40* Synthesis and Isolation of a Dimeric Silylyne Tungsten Complex and Its Dissociation Equilibrium with a Monomer in Solution (Grad. Sch. Sci., Tohoku Univ.) ○YOSHIMOTO, Takashi; HASHIMOTO, Hisako; HAYAKAWA, Naoki; MATSUO, Tsukasa; TOBITA, Hiromi

2F4-41* Synthesis, Structures, and Reactivity of a Cationic Metallogermylene and a Cationic Germylene Complex (Grad. Sch. Sci., Tohoku Univ.) ○INOMATA, Koya; WATANABE, Takahito; TOBITA, Hiromi

2F4-43 Reaction of [NSN]-type sulfodiimide anion with GeCl₂ dioxane complex (Grad. Sch. Sci., Eng., Saitama Univ.) ○HOSODA, Narimi; NAKATA, Norio; ISHII, Akihiko

2F4-44 Synthesis of a PGeP-Type Pincer Germylene Ligand and Its Reactions with Ni(0) Complexes (Sch. Sci., Tohoku Univ.) ○KASAI, Yumi; WATANABE, Takahito; TOBITA, Hiromi

Chair: WATANABE, Takahito (16 : 30~17 : 20)

* 16:20-16:30: interval for laptop PC connection.(2F4-46, 2F4-47, 2F4-48, 2F4-49, 2F4-50)

- 2F4-46** Generation and Reactivity of Chlorogermylene and Germlyenoid Bearing a Bulky Ferrocenyl Group (ICR, Kyoto Univ.) ○SUZUKI, Yuko; SASAMORI, Takahiro; TOKITOH, Norihiro
- 2F4-47** Biphenyl- and fluorene-bridged bis(germyl radical): Synthesis, Structure and Properties (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○YOTSUYANAGI, Hiroko; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 2F4-48** Synthesis of Stannanone Stabilized by the Bulky Rind Groups (Fac. Sci. Eng., Kinki Univ.) TANIKAWA, Tomoharu; FUENO, Hiroyuki; TANAKA, Kazuyoshi; ○MATSUO, Tsukasa
- 2F4-49** Diarylsilylenes Having the Bulky Rind Groups (Kinki Univ.) ○MORIMOTO, Tatsuto; HASIZUME, Daishuke; MATSUO, Tsukasa
- 2F4-50** Study of the Formation Mechanism of Trilithiosilane by the Reaction of Tribromosilane with Lithium-naphthalene (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○MORI, Akira; ICHINOHE, Masaaki; SEKIGUCHI, Akira

Saturday, March 28, AM

Y,Ce

Chair: SHIMA, Takanori (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(3F4-07, 3F4-08, 3F4-09, 3F4-11)

- 3F4-07** Dinuclear Yttrium-Lithium Complexes Having [OEO]-type Ligands (E = S, Se): Synthesis, Structure and Ring-Opening Polymerization of ϵ -Caprolactone (Grad. Sch. Sci., Eng., Saitama Univ.) ○YAMAMOTO, Hanako; NAKATA, Norio; ISHII, Akihiko
- 3F4-08** Yttrium-Mediated C-H Activation Reactions at α -Position of Pyridine Derivatives (Sch. Eng. Sci., Osaka Univ.) ○SUMIYA, Shiki; NAGAE, Haruki; RAPHAEL, Rochat; SHIBATA, Yu; TSURUGI, Hayato; MASHIMA, Kazushi
- 3F4-09**[#] Selective Formation of Ce(IV) Hexanuclear Clusters by Air Oxidation of Ce(III) Precursors in the Presence of Diethylenetriamine (Grad. Sch. Eng. Sci., Osaka Univ.) ○MATHEY, Laurent; TSURUGI, Hayato; MASHIMA, Kazushi
- 3F4-11**[#] Tetraivalent Cerium Complex as a Catalyst for Oxidation of Aryl-methanol under Atmospheric Pressure of Dioxide (Grad. Sch. Eng. Sci., Osaka Univ.) ○PAUL, Mitali; MATHEY, Laurent; TSURUGI, Hayato; MASHIMA, Kazushi

Ti,Zr,Hf

Chair: SUZUKI, Katsunori (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(3F4-14, 3F4-15, 3F4-16, 3F4-17, 3F4-18)

- 3F4-14** Reaction of Titanacyclopentadiene with Bismuth Chloride (CRC, Hokkaido Univ.; Aichi Univ. of Educ.) ○BANDO, Masayoshi; MIZUKAMI, Yuki; SONG, Zhiyi; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu
- 3F4-15** Carbon-carbon Bond Cleavage Reaction on Titanium (CRC, Hokkaido Univ.; Aichi Univ. of Educ.) ○SONG, Zhiyi; LI, Haijun; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu
- 3F4-16**[#] Synthesis of nitrogen-containing organic compounds by dinitrogen activation with multimetallic titanium polyhydrides (RIKEN CSRS) ○GURU, Murali; SHIMA, Takanori; HOU, Zhaomin
- 3F4-17**[#] Denitrogenation of pyridine by a trinuclear titanium polyhydride complex (RIKEN CSRS) ○HU, Shaowei; LUO, Gen; SHIMA, Takanori; LUO, Yi; HOU, Zhaomin
- 3F4-18**^{*} Homo- and copolymerization of ω -siloxy- α -olefins catalyzed by [OSSO]-type zirconium complex (Grad. Sch. Sci., Eng., Saitama Univ.) ○SAITO, Yusuke; NAKATA, Norio; ISHII, Akihiko

Saturday, March 28, PM

Chair: OGOSHI, Sensuke (13 : 30~14 : 20)

* 13:20-13:30: interval for laptop PC connection.(3F4-28, 3F4-31, 3F4-32)

- 3F4-28** Young Scholar Lectures of CSJ Development of Catalytic Organic Transformation based on Design of Early Transition Metal Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○TSURUGI, Hayato
- 3F4-31** Synthesis and Reactivity of Zirconium and Hafnium Complexes with a Tripodal Aryloxy Ligand (Grad. Sch. Sci., Eng., Tokyo Tech) ○NAKANISHI, Yusuke; ISHIDA, Yutaka; KAWAGUCHI, Hiroyuki
- 3F4-32** Synthesis and Structure of Aluminabenzene-Zirconium Complexes (Grad. Sch. Sci., Eng., Chuo Univ.; Fac. Sci., Eng., Chuo Univ.) ○NAKAMURA, Taichi; SUZUKI, Katsunori; YAMASHITA, Makoto

Chair: NAKATA, Norio (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(3F4-34, 3F4-36, 3F4-37, 3F4-38, 3F4-39)

- 3F4-34**[#] Hydroalkylation of Alkynes via C(sp³)-H Bond Activation of 2,6-Lutidine by Alkylhafnium Complexes with Tridentate Nitrogen-based Ligands (Grad. Sch. Eng. Sci., Osaka Univ.) ○LOPEZ, Michael Joseph; KANDO,

Ai; TSURUGI, Hayato; MASHIMA, Kazushi

Nb,Ta

- 3F4-36** Synthesis and Reactions of Niobium and Tantalum Hydride Complexes Supported by the Tridentate [ONO] Ligand (Grad. Sch. Sci., Eng., Tokyo Tech) ○SUZUKI, Shouji; ISHIDA, Yutaka; KAWAGUCHI, Hiroyuki
- 3F4-37** Synthesis of Vanadium and Niobium Complexes Bearing a *p*-Terphenoxide Ligand (Grad. Sch. Sci., Eng., Tokyo Tech) ○KUROGI, Takashi; ISHIDA, Yutaka; KAWAGUCHI, Hiroyuki
- 3F4-38** Mechanistic Study of Alkyne Cyclotrimerization Reaction at a Dinuclear Tantalum center (Sch. Eng. Sci., Osaka Univ.) ○YAMAMOTO, Keishi; TSURUGI, Hayato; MASHIMA, Kazushi
- 3F4-39** Reductive Cleavage Reaction of Nitrogen-nitrogen Double Bonds Mediated by Low-valent Tantalum Species and Organosilane Reductants (Grad. Sch. Eng. Sci., Osaka Univ.) ○KAWAKITA, Kento; SAITO, Teruhiko; TSURUGI, Hayato; MASHIMA, Kazushi

Cu, Au

Chair: ISHIDA, Yutaka (15 : 40~16 : 30)

* 15:30-15:40: interval for laptop PC connection.(3F4-41, 3F4-42, 3F4-43, 3F4-44, 3F4-45)

- 3F4-41** Copper-Catalyzed Synthesis of Difluorocompounds from Trifluoromethylketone by C-F Bond Cleavage (Grad. Sch. Eng., Osaka Univ.) ○DOI, Ryohei; OHASHI, Masato; OGOSHI, Sensuke
- 3F4-42**[#] Copper-Catalyzed Silylformylation of Allenes (Grad. Sch. Eng., Kyoto Univ.) ○YAMAGUCHI, Tatsuya; TANI, Yosuke; FUJIHARA, Tetsuaki; TERAO, Jun; TSUJI, Yasushi
- 3F4-43** Cu-catalyzed aroylfluorination of epoxides (Sch. Eng., Osaka Univ.) ○SHIOZAKI, Daigo; KUNIIYASU, Hitoshi; NAKAZAKI, Masato; SANAGAWA, Atsushi; IWASAKI, Norio; KAMBE, Nobuaki
- 3F4-44** Synthesis of new gold complex bearing 2-ethynylpyridine moiety (Grad. Sch. Sci., Shizuoka Univ.) ○TAKEMOTO, Hikaru; NISHINA, Naoko
- 3F4-45** Carboxylative Cyclization of Propargylamines Catalyzed by NHC-Au (I) Complexes: Formation of Six-membered Cyclic Urethanes (Grad. Sch. Sci., Eng., Tokyo Tech) ○HASE, Shun; KAYAKI, Yoshihito; IKARIYA, Takao

Sunday, March 29, AM

Ni

Chair: INOMATA, Tomohiko (9 : 00~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4F4-01, 4F4-02, 4F4-03, 4F4-04, 4F4-05, 4F4-06)

- 4F4-01** NO-releasing mechanism from nitrosamine within metal-organic framework (Grad. Sch. Eng., Kyoto Univ.) ○ENNO, Hiroki; KITAGAWA, Susumu; KIM, Chiwon; FURUKAWA, Shuhei; DIRING, Stephane
- 4F4-02** Construction of Pseudo-Pillared-Layer Type Porous Structure and Its Adsorption Properties (Fac. Sci., Kyushu Univ.) ○TOMOKAGE, Narumi; MISHIMA, Akio; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 4F4-03** Controlled Aggregation of S-Bridged Au¹¹ Polynuclear Complexes by Inorganic Acids (Grad. Sch. Sci., Osaka Univ.) ○ITAI, Takuma; YOSHINARI, Nobuto; KUWAMURA, Naoto; IGASHIRA, Asako; KONNO, Takumi
- 4F4-04** Synthesis and Reactivity of Nickelacycle Generated via Oxidative Catalization of TFE with Vinylarene Compound (Sch. Eng., Osaka Univ.) ○UEDA, Yuta; KIKUSHIMA, Kotaro; OHASHI, Masato; OGOSHI, Sensuke
- 4F4-05** Nickel-Diphosphine Complexes Having Bulky Terphenyl Groups on Phosphorus Atoms (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) ○SUZUKI, Hironori; TADA, Mizuki; OHKI, Yasuhiro; MATSUMOTO, Tsuyoshi
- 4F4-06** Development of multi-functionalized poly(oxazolonyl)borate ligands and characterization of their nickel(II) complexes (Fac. Eng., Kanagawa Univ.) ○TAKAMURA, Kosuke; NAKAZAWA, Jun; HIKICHI, Shiro

Chair: HIKICHI, Shiro (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4F4-08, 4F4-09, 4F4-11, 4F4-12, 4F4-13)

- 4F4-08** Nickel(III) Complex for the Conversion of Superoxide into Molecular Oxygen (Fac. Sci., Kanagawa Univ.; Fac. Sci. Eng., Shimane Univ.) ○SHIMODAIRA, Takashi; KATAOKA, Yusuke; KAWAMOTO, Tatsuya
- 4F4-09**[#] Hydroxylation of Benzene and Its Derivatives with Hydrogen Peroxide Catalyzed by Ni Complexes (Grad. Sch. Eng., Osaka Univ.) ○MORIMOTO, Yuma; BUNNO, Shuji; ITOH, Shinobu
- 4F4-11** The study of CO₂ reduction by Ni complex included ionic liquid moiety (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○NAGAI, Takuya; KATAYAMA, Akira; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki
- 4F4-12** A study on CO₂ reduction and electronic state of Ni trinuclear

complex (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SHIRAIISHI, Ryo; HIROKO, Oshio; NEWTON, Graham

- 4F4-13** Effects of the central metal ions in the reductive coupling reaction of a bis (chloropyridyl) porphyrin (Fac. Sci., Tokyo Univ. of Sci.) ○KATAGAMI, Yuta; OHKODA, Yohei; SATAKE, Akiharu

Chair: KAWAMOTO, Tatsuya (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(4F4-15, 4F4-16, 4F4-17, 4F4-18, 4F4-19)

- 4F4-15** Development of hydrogen production by phosphine-pyridine type Ni complex with proton acceptor (Grad Sch. Eng., Nagoya Inst. of Tech.) ○TATEMATSU, Ryo; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki

- 4F4-16** Studies on Electrochemical Hydrogen Evolution Reaction from Water Catalyzed by a Bis(pyrazine-2,3-dithiolato)nickelate(II) Complex (Kyushu Univ. Dept. Chem.; Kyushu Univ. WPI-I2CNER; Kyushu Univ. CMS) ○KOSHIBA, Keita; YAMAUCHI, Kosei; SAKAI, Ken

- 4F4-17** Dinuclear Nickel Complexes Supported by a Diamido-Dithiolato Ligand for Modeling the Enzymatic Reaction of Acetyl-CoA Synthase (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○OSU, Rie; OZAWA, Yuka; TADA, Mizuki; OHKI, Yasuhiro; TATSUMI, Kazuyuki; MATSUMOTO, Tsuyoshi

- 4F4-18** Development of dinuclear metal complexes having similar structures to DNA minor groove binders: effect of coordination structure on the DNA cleavage (Fac. Sci. Eng., Doshisha Univ.) ○FUKUI, Katsuki; KODERA, Masahito; HITOMI, Yutaka; ASO, Kenta

- 4F4-19** Research about specific electric conductivity of $Ba_2[Ni(pdt)_2]$ complex (Grad. Sch. Sci., Tohoku Univ.) ○KANARI, Mahiro; KAGESAWA, Kouichi; IGUCHI, Hiroaki; TAKAISHI, Shinya; BREEDLOVE, Brian K.; YAMASHITA, Masahiro

Room F5
Bldg.11 1122

Coordination Chemistry, Organometallic Chemistry

Thursday, March 26, AM

Co

Chair: WADA, Tohru (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1F5-01, 1F5-02, 1F5-03, 1F5-05)

- 1F5-01** Syntheses of helical metal complexes exhibiting elastic motion in response to acid-base stimuli (Grad. Sch. Sci., Osaka City Univ.) ○FUJITA, Aiko; SHINODA, Satoshi; MIYAKE, Hiroyuki

- 1F5-02** Studies on the Photocatalytic Hydrogen Evolution Catalyzed by a Macrocyclic Cobalt-NHC Complex and Its Derivatives (Kyushu Univ. Dept. Chem.; Kyushu Univ. WPI-I2CNER; Kyushu Univ. CMS) ○KAWANO, Ken; YAMAUCHI, Kosei; SKAI, Ken

- 1F5-03*** Photoinduced Oxygen Evolution Promoted by Cobalt Porphyrins with Improved Stability (Kyushu Univ. Dept. Chem.; Kyushu Univ. WPI-I2CNER; Kyushu Univ. CMS) ○NAKAZONO, Takashi; PARENT, Alexander; SAKAI, Ken

- 1F5-05*** Development of Metal Complexes Having Proton Transfer Sites as Catalysts for H_2 Evolution from Water via a Proton-Coupled Electron Transfer Pathway (Kyushu Univ. Dept. Chem.; Kyushu Univ. WPI-I2CNER; Kyushu Univ. CMS) ○YAMAUCHI, Kosei; KOSHIBA, Keita; SAKAI, Ken

Chair: SHIGA, Takuya (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1F5-08, 1F5-10, 1F5-11, 1F5-13)

- 1F5-08*** Cyanido-bridged metal assemblies showing metamagnetism and thermal durability (Grad. Sch. Sci., The Univ. of Tokyo) ○NAKABAYASHI, Koji; CHORAZY, Szymon; TAKAHASHI, Daisuke; KINOSHITA, Takaaki; OHKOSHI, Shin-ichi

- 1F5-10** Cyanido-bridged Co-Nb bimetal assembly showing a large coercive field (Grad. Sch. Sci., The Univ. of Tokyo) ○IMOTO, Kenta; NAKABAYASHI, Koji; MIYAMOTO, Yasuto; ORISAKU, Keiko; OHKOSHI, Shin-ichi

- 1F5-11**** Magneto-luminescent bifunctionality in cyanido-bridged Ln(III)(bis-oxazoline) - M(V) (Ln = Ce - Yb; M = Mo, W) layered frameworks (Grad. Sch. Sci., The Univ. of Tokyo) ○CHORAZY, Szymon; NAKABAYASHI, Koji; ARCZYNSKI, Mirosław; SIEKLUCKA, Barbara; OHKOSHI, Shin-ichi

- 1F5-13** Magnetic Behaviors and Oxidation Reactions of Cobalt(II/III) Complexes with Strand-Type Hexadentate Ligands Containing Thioether and Amidate Donor Groups (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○TADA, Toshiki; YAMANE, Yuki; SUNATSUKI, Yukinari; SUZUKI,

Takayoshi; KOJIMA, Masaaki

Chair: KOBAYASHI, Katsuaki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1F5-15, 1F5-16, 1F5-17, 1F5-18, 1F5-19, 1F5-20)

- 1F5-15** The structure and functions of dinuclear metal complexes of tetrapyrrolic porphyrins (Grad. Sch. Sci., Kobe Univ.) ○ITO, Takumi; SETSUENE, Jun-ichiro

- 1F5-16** Ligand Effects on Dioxxygen Reduction Catalyzed by Dinuclear Cobalt Complexes (Grad. Sch. Sci., Rikkyo Univ.) ○WADA, Misato; MAKI, Hidetaka; MIYAZATO, Yuji; WADA, Tohru

- 1F5-17** Catalytic activity of polynuclear cyano bridged complexes containing Co and Pt for visible light-driven water oxidation (Grad. Sch. Eng., Osaka Univ.; ALCA, JST) ○OYAMA, Kohei; GATES, Rachel; YAMADA, Yusuke; FUKUZUMI, Shunichi

- 1F5-18** Catalytic Reduction of CO_2 and Proton with a Cobalt Chlorin Complex (Grad. Sch. Eng., Osaka Univ.) ○AOI, Shoko; OHKUBO, Kei; MASE, Kentaro; FUKUZUMI, Shunichi

- 1F5-19** Synthesis and activity of dinuclear heterometal complexes with asymmetric macrocyclic dinucleating ligands capable of catalyzing efficient CO_2 -fixation (Fac. Sci. Eng., Doshisha Univ.) ○YOSHIDA, Tsuyoshi; KODERA, Masahito; HITOMI, Yutaka

- 1F5-20** Redox behaviors of cobalt-quadruply-fused porphyrin (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○KOMAMURA, Keiyu; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko

Thursday, March 26, PM

Chair: SAKATA, Yoko (13 : 30~14 : 20)

- * 13:20-13:30: interval for laptop PC connection.(1F5-28, 1F5-29, 1F5-30, 1F5-31, 1F5-32)

- 1F5-28** Syntheses and bistability control of valence tautomeric cobalt complexes possessing structurally flexible long chains (Fac. Sci. Eng., Chuo Univ.) ○CHIDA, Mayumi; MURAYAMA, Chiaki; WAKIZAKA, Masanori; MATSUMOTO, Takeshi; CHANG, Ho-chol

- 1F5-29** Syntheses and bistability of valence tautomeric complexes possessing long alkyl chain-substituted ethylenediamine ligand (Fac. Sci. Eng., Chuo Univ.) ○MURAYAMA, Chiaki; CHIDA, Mayumi; WAKIZAKA, Masanori; MATSUMOTO, Takeshi; CHANG, Ho-chol

- 1F5-30** Electrochemical generation of H_2 and CO under pressurized CO_2 (i-CeMS, Kyoto Univ.) ○KOBAYASHI, Katsuaki; TAKASHI, Kikuchi; TANAKA, Koji

- 1F5-31** Electrochemical Reduction of Carbonyl Compounds in Water under Pressurized CO_2 (iCeMS, Kyoto Univ.) ○KIKUCHI, Takashi; KOBAYASHI, Katsuaki; TANAKA, Koji

- 1F5-32** Water adsorption and desorption behavior of $Co^{III}_2Au^I_4$ hexanuclear complexes that show a separate aggregation of cations and anions in crystal (Grad. Sch. Sci., Osaka Univ.) ○YOSHINARI, Nobuto; ITAI, Takuma; KOJIMA, Tatsuhiko; KAWANO, Masaki; KUWAMURA, Naoto; KONNO, Takumi

Chair: CHANG, Ho-chol (14 : 30~15 : 20)

- * 14:20-14:30: interval for laptop PC connection.(1F5-34, 1F5-35, 1F5-36, 1F5-38)

- 1F5-34** Synthesis of New Cobalt(III) Macrocyclic Dinuclear Metallohost and Its Guest Recognition (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○MURATA, Chiho; SAKATA, Yoko; AKINE, Shigehisa

- 1F5-35** Synthesis and Reactivity of Dicobalt Complexes Bearing a Protic Tetrapyrrole-type Dinucleating Ligand (Grad. Sch. Sci., Eng., Tokyo Tech) ○SAITO, Kento; KUWATA, Shigeki; IKARIYA, Takao

- 1F5-36**** Interfacial synthesis of electrochromic bis(terpyridine)metal complex nanosheets (Grad. Sch. Sci., The Univ. of Tokyo) ○TAKADA, Kenji; SAKAMOTO, Ryota; NISHIHARA, Hiroshi

- 1F5-38** Synthesis of Low-Valent Cobalt Clusters from a Co(II) Amide Complex and Pinacolborane (Grad. Sch. Sci., Nagoya Univ.) ○SHIMIZU, Yuki; TADA, Mizuki; OHKI, Yasuhiro

Chair: SUNATSUKI, Yukinari (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(1F5-40, 1F5-42, 1F5-43, 1F5-44, 1F5-45)

- 1F5-40*** Humidity dependency of the phase transition behavior in an octacyano-CoW(4-methyl-pyridine)(pyrimidine) (Grad. Sch. Sci., The Univ. of Tokyo) ○OZAKI, Noriaki; TOKORO, Hiroko; MIYAMOTO, Yasuto; OHKOSHI, Shin-ichi

- 1F5-42** Co-W bimetal assembly showing photo-induced charge transfer phase transition at room temperature (Grad. Sch. Sci., The Univ. of Tokyo) ○MIYAMOTO, Yasuto; OZAKI, Noriaki; UMETA, Yoshikazu; IMOTO, Kenta; TOKORO, Hiroko; NAKABAYASHI, Koji; OHKOSHI, Shin-ichi

- 1F5-43** Construction of [M-7M-M] type nonanuclear cluster structure based on asymmetric multidentate ligand (Fac. Sci., Kyushu Univ.) ○TSUJI, Yasuhiro; TOGO, Tatsuo; MISHIMA, Akio; KOSHIYAMA, Tomomi; OHBA, Masaaki

Re

1F5-44 Synthesis and Energy Transfer of Linear Shape Rhenium Complex (Grad. Sch. Sci., Eng., Tokyo Tech) ○FUKASAWA, Yuki; TAKEDA, Hiroyuki; MORIMOTO, Tatsuki; TANAKA, Sei-ichi; ONDA, Ken; ISHITANI, Osamu

1F5-45 Guest-dependent Luminescence Property of a PtS-type Coordination Polymer (Grad. Sch. Sci., Kyushu Univ.) ○MIURA, Hiroki; MISHIMA, Akio; KOSHIYAMA, Tomomi; OHBA, Masaaki

Chair: YAMAUCHI, Kosei (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(1F5-47, 1F5-49, 1F5-51, 1F5-52)

1F5-47* Photocatalytic CO₂ reduction using Ru(II)-Re(I) supramolecular complexes with various bridging ligands (Grad. Sch. Sci., Eng., Tokyo Tech) ○OHKUBO, Kei; YAMAZAKI, Yasuomi; KATO, Eishiro; KOIKE, Kazuhide; ONDA, Ken; TANAKA, Sei-ichi; ISHITANI, Osamu

1F5-49* Development of CO₂ reduction systems using Ru(II)-Re(I) supramolecular photocatalysts in water (Grad. Sch. Sci., Eng., Tokyo Tech) ○NAKADA, Akinobu; KOIKE, Kazuhide; MAEDA, Kazuhiko; ISHITANI, Osamu

1F5-51 Photocatalytic Reaction of Carbon Dioxide Reduction Using Rhenium Binuclear Complexes (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○IMORI, Daisuke; MORIMOTO, Tatsuki; KOIKE, Kazuhide; ISHITANI, Osamu

1F5-52 Photoexcited dynamics of rhenium diimine biscarbonyl complexes with arylphosphine ligands (Grad. Sch. Sci., Eng., Tokyo Tech) ○FUNAKI, Masataka; YAMAZAKI, Yasuomi; MORIMOTO, Tatsuki; ISHITANI, Osamu; TANAKA, Sei-ichi; KOSHIHARA, Shin-ya; ONDA, Ken

Chair: SUENOBU, Tomoyoshi (17 : 50~18 : 30)

* 17:40-17:50: interval for laptop PC connection.(1F5-54, 1F5-56, 1F5-57)

1F5-54* A Novel Coupling Methods of Photofunctional Metal Complexes (Grad. Sch. Sci., Eng., Tokyo Tech; TUT School of Computer Science) ○YAMAZAKI, Yasuomi; MORIMOTO, Tatsuki; ISHITANI, Osamu

Os

1F5-56 Reactivity of Six-coordinate Osmium Complex toward External Anionic Ligands (Grad. Sch. Eng., Osaka Univ.) ○KIRIYAMA, Kahori; SUGIMOTO, Hideki; ITOH, Shinobu

1F5-57 Controlling Geometric Structures and Redox Behavior of Os Complexes with a Bis(pyridylmethyl)cyclohexanediamine Tetradentate Ligand. (Grad. Sch. Eng., Osaka Univ.) ○KAI, Ken-ichiro; SUGIMOTO, Hideki; ITOH, Shinobu

Friday, March 27, AM

Bioinorganic Chemistry

Chair: HIKICHI, Shiro (9 : 00~9 : 40)

* 8:50-9:00: interval for laptop PC connection.(2F5-01, 2F5-02, 2F5-03)

2F5-01* Synthesis of a Functional Ligand Consisting of 1,3,5-Triaminocyclohexane Platform and Its Copper Complexes (Grad. Sch. Eng., Osaka Univ.) ○SHIMIZU, Ikuma; MORIMOTO, Yuma; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu

2F5-02* Controlling Cu(I)/O₂-Reactivity by 1,5-Diazacyclooctane-Based Ligands (Grad. Sch. Eng., Osaka Univ.) ○ABE, Tsukasa; MORIMOTO, Yuma; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu

2F5-03* Synthesis of a tricopper dioxygen complex for chemically modeling of the peroxy intermediate in multicopper oxidase (Grad. Sch. Sci., Osaka Univ.; JST PRESTO) ○NAGATA, Kojiro; HATANAKA, Tsubasa; FUKUI, Kensuke; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki; FUNAHASHI, Yasuhiro

Friday, March 27, PM

Chair: FUNAHASHI, Yasuhiro (12 : 40~13 : 40)

* 12:30-12:40: interval for laptop PC connection.(2F5-23, 2F5-25, 2F5-27, 2F5-28)

2F5-23** Generation, Characterization and Reactivity Study of a CuII-Hydroxide-Anilino-Radical Complex (Grad. Sch. Eng., Osaka Univ.) ○PARIA, Sayantan; MORIMOTO, Yuma; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu

2F5-25* Theoretical Studies of Dioxygenation Reaction Catalyzed by Quercetinase (Grad. Sch. Sci., Osaka Univ.) ○SAITO, Toru; KAWAKAMI, Takashi; YAMANAKA, Shusuke; OKUMURA, Mitsutaka

2F5-27 Synthesis, crystal structures, and end-on peroxo formation of dicopper complex with a bis-tpa type dinucleating ligand (Fac. Sci. Eng., Doshisha Univ.) ○KITAYAMA, Kou; TSUJI, Tomokazu; HITOMI, Yutaka; KODERA, Masahito

2F5-28 Control of valence tautomerism of assymmetric mixed-valent dicopper (II,III) complex (Grad Sch. Eng., Nagoya Inst. of Tech.) ○OCHIAI, Tatsuya; MASUDA, Hideki

Chair: ONODA, Akira (13 : 50~14 : 50)

* 13:40-13:50: interval for laptop PC connection.(2F5-30, 2F5-31, 2F5-32, 2F5-33, 2F5-34, 2F5-35)

2F5-30 Highly reactive oxodiiron(IV) with a carboxylate-containing BPG2E ligand (Grad. Sch. Eng., Doshisha Univ.) ○TSUJI, Tomokazu; KODERA, Masahito; HITOMI, Yutaka

2F5-31 Formation and reactivity of high-spin oxodiiron(IV) with a 6-hpa^R (R = 4-OMe-3,5-Me₂) ligand. (Fac. Sci. Eng., Doshisha Univ.) ○SAKURAI, Katsutoshi; KODERA, Masahito; HITOMI, Yutaka; TSUJI, Tomokazu

2F5-32 Aerobic Oxidation Catalyses of Nonheme Metalloenzyme Model Complexes (Fac. Eng., Kanagawa Univ.) ○HAYASHI, Yuto; CHIBA, Yosuke; TSURUTA, Tomohiro; NAKAZAWA, Jun; HIKICHI, Shiro

2F5-33 Characterization of mononuclear cobalt(III)-dioxygen complexes with N5 donor sets and their reactivity. (Fac. Eng., Kanagawa Univ.) ○NISHIURA, Toshiki; CHIBA, Yosuke; NAKAZAWA, Jun; HIKICHI, Shiro

2F5-34 Synthesis and property of oxo-alcoholato- and oxo-thiolato-molybdenum(VI) complexes (Grad. Sch. Eng., Osaka Univ.; Rigaku Corporation) ○SATO, Masanori; SUGIMOTO, Hideki; MATSUMOTO, Takashi; ITOH, Shinobu

2F5-35 Synthesis of multinuclear manganese complexes with a cage-type ligand mimicking Oxygen Evolving Center (Grad. Sch. Sci., Osaka Univ.; PRESTO, JST) ○YONAGA, Shuhei; TANGE, Kosuke; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro

Chair: HITOMI, Yutaka (15 : 00~16 : 00)

* 14:50-15:00: interval for laptop PC connection.(2F5-37, 2F5-38, 2F5-40, 2F5-41, 2F5-42)

2F5-37 Synthesis of Manganese-Oxo Clusters from Mn(II) Complexes Bearing Bulky Alkoxide or Phenoxide Ligands (RCMS, Nagoya Univ.) ○SENDA, Shunsuke; ITOH, Takahiro; KOGAWA, Yumiko; OHKI, Yasuhiro; TATSUMI, Kazuyuki

2F5-38** Protonated Mononuclear Nonheme Manganese(IV)-Oxo Complexes with Much Enhanced Oxidation Capacity (Grad. Sch. Eng., Osaka Univ.; ALCA, JST) ○HEEJUNG, Yoon; YONG-MIN, Lee; WONWOO, Nam; SHUNICHI, Fukuzumi

2F5-40 Effect of Amino Acid Mutation in the Active Site on the Stereoselectivity of C-H Bond Hydroxylation Catalyzed by Manganese Porphycene in Myoglobin (Grad. Sch. Eng., Osaka Univ.) ○NISHIURA, Takako; OOHORA, Koji; HAYASHI, Takashi

2F5-41 Structural and Chemical Characterization of First Row-Transition-Metal Complexes with a Cupin-type Protein (Sch. Eng., Osaka Univ.) ○ICHIHASHI, Haruna; NAKANO, Takumi; FUJIEDA, Nobutaka; ITOH, Shinobu

2F5-42 Reconstruction of Mononuclear Ruthenium and Osmium Active Center using Cupin Superfamily Protein. (Grad. Sch. Eng., Osaka Univ.) ○NAKANO, Takumi; TANIGUCHI, Yuki; FUJIEDA, Nobutaka; SUGIMOTO, Hideki; ITOH, Shinobu

Chair: SHIMAKOSHI, Hisashi (16 : 10~17 : 10)

* 16:00-16:10: interval for laptop PC connection.(2F5-44, 2F5-45, 2F5-47, 2F5-48)

2F5-44 Preparation of Myoglobin Reconstituted with F430-like Nickel Tetrahydrocorrin (Grad. Sch. Eng., Osaka Univ.) ○MIYAZAKI, Yuta; MORITA, Yoshitsugu; OOHORA, Koji; HAYASHI, Takashi

2F5-45** Catalytic cascade reactions by heterometallic Ir/Pd complexes within the discrete space of apo-Ferritin cage. (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○MAITY, Basudev; ABE, Satoshi; FUKUMORI, Kazuki; UENO, Takafumi

2F5-47 Olefin Hydrogenation Catalyzed by an Artificial Biocatalyst Containing a Cp*Rh Complex (Grad. Sch. Eng., Osaka Univ.) ○TACHIKAWA, Kengo; ONODA, Akira; HYASHI, Takashi

2F5-48* Preparation and catalytic properties of an artificial metalloenzyme having a dithiolate-bridged diiron carbonyl core. (Grad. Sch. Eng., Osaka Univ.) ○SANO, Yohei; ONODA, Akira; HAYASHI, Takashi

Chair: SUGIMOTO, Hideki (17 : 20~18 : 10)

* 17:10-17:20: interval for laptop PC connection.(2F5-51, 2F5-53, 2F5-54, 2F5-55)

2F5-51* Transmethylation in Myoglobins Reconstituted with Cobalt Corrinoid Complexes as a Model of Methionine Synthase (Grad. Sch. Eng., Osaka Univ.) ○MORITA, Yoshitsugu; OOHORA, Koji; HAYASHI, Takashi

2F5-53 Electrochemical trifluoromethylation catalyzed by vitamin B₁₂ derivative (Grad. Sch. Eng., Kyushu Univ.) ○WAKIYA, Kosuke; ONO, Toshikazu; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio

2F5-54 Development of Organic Synthesis Reaction via a Cobalt-Hydride Complex of Vitamin B₁₂ Derivative (Fac. Eng., Kyushu Univ.) ○TAKAHASHI, Koyo; SHIMAKOSHI, Hisashi; ONO, Toshikazu; ABE, Masaaki; HISAEDA, Yoshio

2F5-55 Synthesis and Property of Novel Oxime Type Dicobalt Complex (Fac. Eng., Kyushu Univ.) ○HASHIMOTO, Masashi; SHIMAKOSHI, Hisashi; ONO, Toshikazu; ABE, Masaaki; HISAEDA, Yoshio

Chair: NAKAZAWA, Jun (18 : 20~19 : 00)

* 18:10-18:20: interval for laptop PC connection.(2F5-57, 2F5-59)

- 2F5-57*** Photoinduced electron transfer reaction of chymotrypsin modified with a Ru(bpy)₃ complex at the active site (Fac. Sci., Nara Women's Univ.) NAGASATO, Natsuko; ○TAKASHIMA, Hiroshi
- 2F5-59**** Development of Visible Light Responsive Vitamin B12-TiO₂ Hybrid Catalyst Composed of Interfacial Complexation (Grad. Sch. Eng., Kyushu Univ.) ○SHIMAKOSHI, Hisashi; YONEMURA, Shunsuke; HISAEDA, Yoshio

Saturday, March 28, AM

Cu

Chair: OOTSUBO, Kazuya (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3F5-01, 3F5-02, 3F5-03, 3F5-04, 3F5-05, 3F5-06)
- 3F5-01** Construction of porous structure with composite cyclic complex and polyoxometalate (Grad. Sch. Sci., Kyushu Univ.) ○YOU, Tetsu; YONEDA, Hiroshi; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 3F5-02** Interlayer expansion of two-dimensional layered porous coordination polymers (Grad. Sch. Eng., The Univ. of Tokyo) ○NAKAYASHIKI, Kazuki; SATO, Hiroshi; AIDA, Takuzo
- 3F5-03#** Large Lantern-type Metal-Organic Polyhedra (iCeMS, Kyoto Univ.) ○LARPENT, Patrick; FURUKAWA, Shuhei; KITAGAWA, Susumu
- 3F5-04#** Synthesis, structures and properties of metal-organic frameworks for selective gas adsorption (Sch. Sci., Tohoku Univ.) ○WU, Bin; TAKAISHI, Shinya; YAMASHITA, Masahiro
- 3F5-05** Hirshfeld Surface Analyses Evaluation of Gas Adsorption Properties and Interchain Interactions of One-Dimensional Paddle-wheel Type Cu(II) Complexes (Grad. Sch. Eng., Tohoku Univ.; IMRAM, Tohoku Univ.; RIES, Hokkaido Univ.) ○TAKAHASHI, Kiyonori; HOSHINO, Norihisa; NORO, Shin-ichiro; NAKAMURA, Takayoshi; AKUTAGAWA, Tomoyuki
- 3F5-06** Construction of Flexible Porous Structure based on 1D-Chain-type Coordination Polymers and Dianions, and Their Properties (Grad. Sch. Sci., Kyushu Univ.) ○EGUCHI, Daisuke; YONEDA, Hiroshi; YANADA, Teppi; KOSHIYAMA, Tomomi; OHBA, Masaaki

Chair: UEMURA, Takashi (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3F5-08, 3F5-10, 3F5-11, 3F5-12, 3F5-13)
- 3F5-08*** Preparation and characteristic swelling behavior of anisotropic network polymer prepared from metal-organic framework with anisotropic structure (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○ISHIWATA, Takumi; KOKADO, Kenta; SADA, Kazuki
- 3F5-10** Crystal Structures and Conducting Properties of 3D Coordination Polymers with Dithiocarbamate Derivatives (Fac. Sci. Eng., Kinki Univ.; PRESTO, JST) ○OKUBO, Takashi; NAKAHASHI, Yuuki; HIMOTO, Kento; KOUNO, Yuki; NAKATANI, Kenji; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 3F5-11** Synthesis and Carrier Transport Properties of Semiconducting Materials Consisting of HAT Derivatives and Copper Halides (Kinki Univ.; PRESTO, JST) ○HIMOTO, Kento; KONO, Yuki; NAKATANI, Kenji; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA, Takayoshi
- 3F5-12** Syntheses and properties of planar binuclear complexes bridged by TCNQ derivative (Fac. Sci., Fukuoka Univ.) ○UENO, Shunya; FURUSYO, Midori; ISHIKAWA, Ryuta; KAWATA, Satoshi
- 3F5-13** Synthesis of transition metal complex bearing two crown ether moieties and the host-guest properties (Grad. Sch. Sci., Shizuoka Univ.) ○SANO, Eriko; NISHINA, Naoko

Chair: KAJITA, Yuji (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3F5-15, 3F5-16, 3F5-17, 3F5-18, 3F5-19)
- 3F5-15** Effect of the proton-accepting sites on the four-electron reduction of O₂ by Cu(II) complexes having NNN pincer-type ligands (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○YAGI, Tomomi; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko
- 3F5-16** Dioxygen activation by Cu(I) complex in an ionic liquid (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○NAKAGAWA, Keita; MASUDA, Hideki
- 3F5-17** Study on Photoinduced Water Oxidation Catalyzed by Water-soluble Copper Phthalocyanine (Kyushu Univ. Dept. Chem. Kyushu Univ.; Kyushu Univ. WPI-I2CNER; Kyushu Univ. CMS) ○TERAO, Ryota; NAKAZONO, Takashi; PARENT, Alexander; SAKAI, Ken
- 3F5-18** Reactivity of Copper(I) Complexes of Propanediamine Ligands toward Nitric Oxide (Sch. Eng., Osaka Univ.) ○INOUE, Keisuke; MORIMOTO, Yuma; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu
- 3F5-19*** One-step Hydroxylation of Benzene with H₂O₂ Catalyzed by Tris(2-pyridylmethyl)amine Cu(II) Complex (Grad. Sch. Eng., Osaka Univ.; ALCA, JST; Johns Hopkins University) ○YAMADA, Mihoko; KARLIN, Kenneth D.; FUKUZUMI, Shunichi

Saturday, March 28, PM

Chair: KOTANI, Hiroaki (13 : 30 ~ 14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3F5-28, 3F5-29, 3F5-30, 3F5-32, 3F5-33)
- 3F5-28** Emission-Color Tuning of Dinuclear Cu(I) Complexes Based on Systematic Introduction of Aromatic Rings to Diphosphine Ligands (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○OKANO, Yuka; OHARA, Hiroki; YOSHIDA, Masaki; KOBAYASHI, Atsushi; KATO, Masako
- 3F5-29** Synthesis of Luminescent Copper(I) Complexes Bearing a Diphosphine Oxide Ligand (Fac. Sci. and Technol., Seikei Univ.) ○NISHI, Tatsuya; NISHIKAWA, Michihiro; TSUBOMURA, Taro
- 3F5-30**** Synthesis and Properties of Water Soluble Copper(I) Complexes Bearing Diimine (Fac. Sci. and Technol., Seikei Univ.) ○NISHIKAWA, Michihiro; TSUBOMURA, Taro
- 3F5-32** Study on Mechanism of Structure Distortion in Excited States and Photophysical Properties of Three-coordinate Copper(I) Phenylacetylide Complexes with Diphosphine Ligands (Univ. of Toyama Graduate School of Science and Engineering for Education; Grad. Sch. Sci., Osaka City Univ.) ○ISHIKAWA, Emiko; MAEBA, Junichi; IWAMURA, Munetaka; KMBARA, Ryusuke; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji; NOZAKI, Koichi
- 3F5-33** Development of Dye-sensitized Solar Cells using Copper(I) Complexes with Asymmetric Ligands (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○HATANO, Mayuka; KAWAI, Yuya; INOMATA, Tomohiko; WASADA, Yuko; OZAWA, Tomohiro; MASUDA, Hideki

Chair: NISHIKAWA, Michihiro (14 : 40 ~ 15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3F5-35, 3F5-36, 3F5-38, 3F5-39, 3F5-40)
- 3F5-35** Theoretical study of magnetic interaction in pyrazole-bridged dinuclear Cu(II) complex (Sch. Eng. Sci., Osaka Univ.) ○MIYAGI, Koji; ASAOKA, Mizuki; TAKEBAYASHI, Taku; KITAGAWA, Yasutaka; NAKANO, Masayoshi

Au

- 3F5-36*** Electronic structures and absorption properties of shape-controlled gold clusters (Fac. Env.Earth Sci., Hokkaido Univ.; Grad. Sch. Env. Sci., Hokkaido Univ.) ○SHICHIBU, Yukatsu; ZHANG, Mingzhe; KONISHI, Katsuaki
- 3F5-38** Structure-dependent photoluminescence properties of anisotropic Au₆ clusters (Grad. Sch. Env. Sci., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.; Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.; Grad. Fac. Eng., Hokkaido Univ.) ○ZHANG, Mingzhe; IWASA, Takeshi; ONO, Yuriko; TAKETSUGU, Tetsuya; OMAGARI, Shun; NAKANISHI, Takayuki; HASEGAWA, Yasuchika; SHICHIBU, Yukatsu; KONISHI, Katsuaki
- 3F5-39** Arrangement-dependent Optical Properties of Sub-nanometer-sized Octanuclear Gold Clusters in Solid state. (Grad. Sch. Env. Sci., Hokkaido Univ.; Fac. Env.Earth Sci., Hokkaido Univ.) ○SUGIUCHI, Mizuho; SHICHIBU, Yukatsu; KONISHI, Katsuaki
- 3F5-40** Syntheses and properties of PEG-modified bi-icosahedral Au₂₅ clusters (Grad. Sch. Env. Sci., Hokkaido Univ.; Fac. Env.Earth Sci., Hokkaido Univ.) ○IZUMIDATE, Hirota; SUGIUCHI, Mizuho; SHICHIBU, Yukatsu; KONISHI, Katsuaki

Chair: YOSHIDA, Masaki (15 : 50 ~ 16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3F5-42, 3F5-44, 3F5-46, 3F5-47)
- 3F5-42*** Luminescent Properties of Digold(I) Complexes with Bridging Diphosphine Ligands (Grad. Sch. Sci., Osaka Univ.) ○IGAWA, Kosuke; YOSHINARI, Nobuto; KUWAMURA, Naoto; KONNO, Takumi
- 3F5-44*** Synthesis and Structural Characterization of Organogold(I)-Uracil Conjugates (Grad. Sch. Eng., Osaka Univ.) ○SAKAMOTO, Yuki; MORIUCHI, Toshiyuki; HIRAO, Toshikazu
- 3F5-46** Structural conversion and Adsorption Properties of Two-dimensional Hollow-Sheet-Type Coordination Polymers (Grad. Sch. Sci., Kyushu Univ.) ○TANAKA, Sakuya; MISHIMA, Akio; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 3F5-47** Construction of defect sheet structure based on tetracyanoaurate(III) (Grad. Sch. Sci., Kyushu Univ.) ○UHIDA, Tohru; TANAKA, Sakuya; MISHIMA, Akio; KOSHIYAMA, Tomomi; OHBA, Masaaki

Chair: KONISHI, Katsuaki (17 : 00 ~ 17 : 30)

- * 16:50-17:00: interval for laptop PC connection.(3F5-49, 3F5-50)
- 3F5-49** One dimensional array of metal ions via electrostatic intercalation into layered porphyrin organization in an artificial peptide duplex (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) ○NISHIO, Motoki; YAMADA, Yasuyuki; TANAKA, Kentaro
- 3F5-50*** Modular assembly of Au(I) clusters with a tray-shaped Au(I)₃ complex (Grad. Sch. Eng., The Univ. of Tokyo; Fac. Sci., Yamagata Univ.) ○OSUGA, Takafumi; MURASE, Takashi; HOSHINO, Manabu; FUJITA, Makoto

Sunday, March 29, AM

Tm

Chair: KATAOKA, Yumiko (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4F5-01, 4F5-02, 4F5-03, 4F5-04, 4F5-05, 4F5-06)

4F5-01 Emission spectra of helical Tm complexes with hexadentate ligand (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KUODA, Kohei; ISHII, Ayumi; HASEGAWA, Miki

Eu

4F5-02 Structure and luminescence properties of lanthanide complexes of bipyridine with diazanaphthalene (Coll. Sci. Eng., Aoyama Gakuin Univ.)

○TSUCHIYA, Yuto; ISHII, Ayumi; HASEGAWA, Miki

4F5-03 Luminescence of the helical Eu complex with long alkyl chain on the surface of calcium carbonate of sea urchin spine (Coll. Sci. Eng., Aoyama Gakuin Univ.; Fac. Sci. Tech., Keio Univ.) ○OGATA, Shuhei; GOTO, Naoto; MUNEKAWA, Yurika; OAKI, Yuya; ISHII, Ayumi; IMAI, Hiroaki; HASEGAWA, Miki

4F5-04 Structural stability and its medium-induced luminescence of a helical Europium complex (Coll. Sci. Eng., Aoyama Gakuin Univ.)

○HASEGAWA, Yuki; ZAMA, Yusuke; ISHII, Ayumi; HASEGAWA, Miki

4F5-05 Synthesis and luminescence properties of lanthanide complex with helicene ligands (Sch. Eng., Hokkaido Univ.) ○OHNO, Ryohsuke; KITAGAWA, Yuichi; NAKANISHI, Takayuki; FUSHIMI, Koji; HASEGAWA, Yasuchika

4F5-06 Synthesis of chiral lanthanide complexes containing a chiral bis (oxazolin) ligand and systematic analysis of their circularly polarized luminescence (Grad. Sch. Mat. Sci., NAIST) ○UEMURA, Kazuma; YUASA, Junpei; KAWAI, Tsuyoshi

Eu

Chair: ISHII, Ayumi (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4F5-08, 4F5-09, 4F5-10, 4F5-11, 4F5-12, 4F5-13)

4F5-08 Synthesis and Luminescence Property of Trinuclear Lanthanide Complexes Using Triple-Arch-Type Ligands (Grad. Sch. Sci., Kyushu Univ.) ○TOGO, Tatsuo; TSUJI, Yasuhiro; KOSHIYAMA, Tomomi; OHBA, Masaaki

4F5-09 Synthesis and luminescence properties of Eu(III) coordination polymer composed of two coordinate sites (Sch. Eng., Hokkaido Univ.)

○NAKAJIMA, Ayako; NAKANISHI, Takayuki; KITAGAWA, Yuichi; FUSHIMI, Koji; HASEGAWA, Yasuchika

4F5-10 Photosensitized luminescence of Eu(III) polytungstate cluster with β -diketonate ligands (Sch. Eng., Hokkaido Univ.) ○OKAI, Tsubasa; NAKANISHI, Takayuki; KITAGAWA, Yuichi; FUSHIMI, Koji; HASEGAWA, Yasuchika

4F5-11 Multi-Anion Sensing with Mixed-Eu(III) and Tb(III) Complexes containing Pybox Ligand (Fac. Sci., Nara Women's Univ.)

○NAKAMURA, Kaho; NOKAMI, Misa; TOMOTSUKA, Ikumi; HARAI, Maki; KATAOKA, Yumiko; KAJIWARA, Takashi

4F5-12 Anion-cation recognition of Eu(III) complex with Pybox ligand containing crown moiety (Grad. Sch. Human. Sci., Nara Women's Univ.)

○TOMOTSUKA, Ikumi; HARAI, Maki; NAKAMURA, Kaho; NOKAMI, Misa; KATAOKA, Yumiko; KAJIWARA, Takashi

4F5-13 Amino acid sensing using induced CPL of Ln complexes with bisdiimine-dicarboxylic acid -Effects of central metal on the chiral sensing- (Univ. of Toyama graduate school of science and engineering for education)

○UCHIDA, Takaaki; NOHARA, Aya; IWAMURA, Munetaka; NOZAKI, Koichi

Tb

Chair: HASEGAWA, Yasuchika (11 : 20 ~ 12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4F5-15, 4F5-17, 4F5-18, 4F5-19, 4F5-20)

4F5-15* Patterning of porphyrin double-decker single molecule magnets on Au (111) by STM (Grad. Sch. Sci., Osaka Univ.; IMRAM, Tohoku Univ.)

○INOSE, Tomoko; TANAKA, Daisuke; LIU, Jie; KAJIHARA, Mizu; KOMEDA, Tadahi; OGAWA, Takuji

4F5-17 Study on single-molecule magnet performance of MeO-TEMPO coordinated rare earth complexes. (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○NAKAMURA, Takeshi; ISHIDA, Takayuki

4F5-18 Theoretical study on rotational barrier between Pc ring in TbPc₂ complex (Grad. Sch. Eng. Sci., Osaka Univ.) ○KITAGAWA, Yasutaka; KURAHASHI, Hiroyuki; KATOH, Keiichi; OKUMURA, Mitsutaka; YAMASHITA, Masahiro; NAKANO, Masayoshi

4F5-19 Emission trend based on the single crystal structural analysis of lanthanide complexes with a helical ligand (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○IWASAWA, Daichi; FUKUSHIMA, Mayuko; ISHII, Ayumi; SUGIMOTO, Kunihisa; HASEGAWA, Miki

4F5-20 Direct synthesis of fluorescent metal complexes in inner aqueous phase of liposome (Grad. Sch. Sci., Kyushu Univ.) ○HONJO, Masayuki; HATAE, Tatsuru; KOSHIYAMA, Tomomi; OHBA, Masaaki

Room F6

Bldg.11 1123

Coordination Chemistry, Organometallic Chemistry

Thursday, March 26, AM

Fe

Chair: MASAOKA, Shigeyuki (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1F6-01, 1F6-02, 1F6-03, 1F6-04, 1F6-05, 1F6-06)

1F6-01 Multi-protonation and multi-electron reduction reaction of tris-ortho-benzoquinodimine iron(II) complex (Fac. Sci. Eng., Chuo Univ.)

○YAMAMOTO, Risa; WAKIZAKA, Masanori; MATSUMOTO, Takeshi; NORO, Shin-ichiro; CHANG, Ho-chol

1F6-02 Photochemical reaction of 2-aminophenolato iron(II) complex in methanol (Grad. Sch. Sci. Eng., Chuo Univ.) ○TANAKA, Ryota; WAKIZAKA, Masanori; MATSUMOTO, Takeshi; CHANG, Ho-chol

1F6-03 Magnetic/Conducting Properties of One-Dimensional Ladder Type Complex Bridged by TCNQ (Fac. Sci., Fukuoka Univ.) ○NIFUKU, Shoen; ISHIKAWA, Ryuta; KAWATA, Satoshi

1F6-04 Crystal structures and physical properties of ferrous hybrid complexes with halogen bond interactions (Grad. Sch. Sci., Kobe Univ.; CSREA, Kobe Univ.; MPRC, Kobe Univ.) FUKUROI, Kappei; ○TAKAHASHI, Kazuyuki; SAKURAI, Takahiro; OHTA, Hitoshi

1F6-05 Crystal structures and properties of metal complexes composed of novel acceptor ligands (Grad. Sch. Sci., Kobe Univ.; CSREA, Kobe Univ.; MPRC, Kobe Univ.) ○OKAI, Mitsunobu; TAKAHASHI, Kazuyuki; SAKURAI, Takahiro; OHTA, Hitoshi

1F6-06 Substituent Effect on Spin Crossover Iron(II) Complexes with 1,2,3-Triazole-Containing Tripodal Ligand Having Aromatic Substituent in the N1-Position (Grad. Sch. Edu., Gifu Univ.; Fac. Edu., Gifu Univ.; Okayama Univ. Faculty of Science) ○MINOURA, Ryo; HAGIWARA, Hiroaki; SUNATSUKI, Yukinari

Chair: KOJIMA, Takahiko (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1F6-08, 1F6-09, 1F6-11, 1F6-12, 1F6-13)

1F6-08 Synthesis of Iron Complexes Having a Bulky Monodentate Arylthiolate Ligand (Fac. Sci. Eng., Kinki Univ.) ○HAMURA, Masahiro; GODA, Shun; HASHIZUME, Daisuke; MATSUO, Tsukasa

1F6-09* Construction of functional liposome space using antibiotic ion channel (Fac. Sci., Kyushu Univ.) ○KOSHIYAMA, Tomomi; HATAE, Tatsuru; NAKANISHI, Keita; HONJO, Masayuki; ASADA, Sana; KANDA, Nao; KAWAHARA, Koki; OHBA, Masaaki

1F6-11 Structural Characterization of Ferrocene-Dipeptide Conjugates Bearing Pyridine-Oxide Moiety (Grad. Sch. Eng., Osaka Univ.) MORIUCHI, Toshiyuki; ○WU, Hao; HIRAO, Toshikazu

1F6-12 Structure and Properties of Four-Coordinate Iron Nitrosyl Complex Using N3 Type Ligand (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○SOMA, Shoko; FUJISAWA, Kiyoshi

1F6-13 Synthesis of Silver(I) Trinuclear Complexes with 4-phenyl Substituted Pyrazolate (Coll. Sci., Ibaraki Univ.) SHIMIZU, Daichi; ○FUJISAWA, Kiyoshi

Chair: FUJISAWA, Kiyoshi (11 : 20 ~ 12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1F6-15, 1F6-16, 1F6-17, 1F6-18, 1F6-19, 1F6-20)

1F6-15 Syntheses of Unsymmetrical Multinuclear Iron Complexes Mimicking The Active Center of Monooxygenases (Grad. Sch. Sci., Osaka City Univ.)

○NAKAO, Takuto; NISHIKAWA, Keisuke; MORIMOTO, Yoshiki; TACHI, Yoshimitsu

1F6-16 Synthesis and Characterization of Tetra- and Hexa-Nuclear Iron-Hydride Clusters Bearing Phosphine Auxiliaries (Sch. Sci., Nagoya Univ.)

○ARAAKE, Ryoichi; SAKADANI, Kazuki; OHKI, Yasuhiro; TADA, Mizuki

1F6-17 Development of diiron complexes catalyzing highly selective hydroxylation of alkanes (Fac. Sci. Eng., Doshisha Univ.) ○SASABE, Masafumi; KODERA, Masahito; HITOMI, Yutaka; TSUJI, Tomokazu

1F6-18 Formation and high reactivity of anti-dioxo species via conversion of peroxodiiron(III) to high-spin oxodiiron(IV) (Grad. Sch. Eng., Doshisha Univ.) ○ISHIGA, Shin; HITOMI, Yutaka; KODERA, Masahito; SAJITH, P. K.; YOSHIZAWA, Kazunari

1F6-19 Studies to Control the Oxidation Reactions Catalyzed by Mononuclear Metal Complexes: Orientation Effect of Anionic Ligation (Grad. Sch.

Eng., Doshisha Univ.) ○IKEDA, Tsuyoshi; KODERA, Masahito; HITOMI, Yutaka

- 1F6-20** Studies to Control the Oxidation Reactions Catalyzed by Mononuclear Iron Complexes: Synthesis and Reactivity of the Mononuclear Oxoiron (IV) Species with Anionic Ligand (Fac. Sci. Eng., Doshisha Univ.) ○HIRAMATSU, Minami; IWAMOTO, Yuji; ARAKAWA, Kengo; KODERA, Masahito; HITOMI, Yutaka

Thursday, March 26, PM

Chair: KOJIMA, Takahiko (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1F6-28)

- 1F6-28 CSJ Award for Creative Works** Unique structures and properties of cluster compounds in subnanometer regime (Fac. Env. Earth Sci., Hokkaido Univ.) ○KONISHI, Katsuaki

Fe

Chair: KOTANI, Hiroaki (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1F6-35, 1F6-37, 1F6-38, 1F6-39, 1F6-40)

- 1F6-35*** Selective hydrogen peroxide oxidations catalyzed by iron-picolinate complexes (AIST Interdisciplinary Research Center for Catalytic Chemistry) ○TANAKA, Shinji; KON, Yoshihiro; SATO, Kazuhiko
- 1F6-37** Studies to Control the Oxidation Reactions Catalyzed by Mononuclear Iron Complexes : C-H Activation by the Mononuclear Iron Complex Supported by a Tetradentate Monoanionic Ligand (Grad. Sch. Eng., Doshisha Univ.) ○KUMAZAKI, Kosuke; SAITOU, Sachi; KODERA, Masahito; HITOMI, Yutaka
- 1F6-38** Studies to Control the Oxidation Reactions Catalyzed by Mononuclear Iron Complexes: Introduction of Substrate Recognition Ability by the Molecular Imprinting Method (Grad. Sch. Eng., Doshisha Univ.) ○MORISAWA, Ryosuke; KODERA, Masahito; HITOMI, Yutaka
- 1F6-39** Dinitrogen fixation by cyclophane iron complex bearing C-Fe binding site (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○SHIBATA, Kana; SUZUKI, Tatsuya; OGAWA, Takahiko; IKEDA, Ken; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki
- 1F6-40*** Cleavage of Aryl Carbon-Nitrogen Bond by Reaction of Phosphazido Iron(II) complex with Hydride (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○SUZUKI, Tatsuya; FRYZUK, Michael; MASUDA, Hideki; OGAWA, Takahiko

Chair: CHANG, Ho-chol (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1F6-42, 1F6-43, 1F6-44, 1F6-45, 1F6-46, 1F6-47)

- 1F6-42** Photoinduced electron-transfer oxidation of iron(II) complexes by molecular oxygen with electron donor-acceptor dyads (Grad. Sch. Eng., Osaka Univ.; ALCA, JST) ○TSUDA, Takeshi; OHKUBO, Kei; FUKUZUMI, Shunichi
- 1F6-43** Effect of Addition of Scandium Ion on the Performance of a One-Compartment H₂O₂ Fuel Cell Using [Fe(H₂O)₂]₃[Co(CN)₆]₂ as a Cathode Material (Grad. Sch. Eng., Osaka Univ.; ALCA, JST) ○YONEDA, Masaki; YAMADA, Yusuke; FUKUZUMI, Shunichi
- 1F6-44** ORR Activity of a Fuel Cell Cathode Catalyst Prepared from Iron-Salen Complexes with Different Ligand Frameworks (Grad. Sch. Eng., Osaka Univ.) ○TANAKA, Yuta; ONODA, Akira; HAYASHI, Takashi
- 1F6-45** Analysis of Photoreaction of Metal Complexes in Solution by Electrochemical Measurements (IMS; SOKENDAI; JST ACT-C) ○FUKATSU, Arisa; OKABE, Yuki; KONDO, Mio; MASAOKA, Shigeyuki
- 1F6-46** Synthesis and characterization of Iron complexes having a tetraanionic macrocyclic ligand in stepwise oxidation reactions (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○OGISHIMA, Fumiya; KOTANI, Hiroaki; ISHIZUKA, Tomoya; OKAJIMA, Toshihiro; KOJIMA, Takahiko
- 1F6-47** Ligand-Substitution Reactions of an N,C,S-Pincer Iron(III) Complex Induced by Visible Light (Grad. Sch. Sci., Osaka City Univ.) ○NAKAE, Toyotaka; HIROTSU, Masakazu; KINOSHITA, Isamu

Chair: ISHII, Tomohiko (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1F6-49, 1F6-50, 1F6-51, 1F6-53)

- 1F6-49** Structures and magnetic properties of spin-crossover complexes involving iron(II) complex anions (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○YAMASAKI, Masaru; ISHIDA, Takayuki
- 1F6-50** Phase transition of a mixed-valence trinuclear complex (IMCE, Kyushu Univ.) ○NAKAMURA, Kazusa; KANG, Soonchul; KANEGAWA, Shinji; SATO, Osamu
- 1F6-51*** Heterometallic Fe/K coordination polymer with a wide thermal hysteretic spin transition around room temperature (IMCE, Kyushu Univ.) ○KANG, Soonchul; KANEGAWA, Shinji; SATO, Osamu
- 1F6-53*** Prepatration and Physical Properties of Hetero Metallic Di-nuclear Functional Complexes (IMCE, Kyushu Univ.) ○KANEGAWA, Shinji; KANG, Soonchul; SATO, Osamu

Chair: SATO, Osamu (18 : 10~18 : 40)

* 18:00-18:10: interval for laptop PC connection.(1F6-56, 1F6-58)

- 1F6-56*** Ligand Field Splitting Involving a Molecular Distortion (Fac. Eng., Kagawa Univ.) ○ISHII, Tomohiko; NAKANO, Momoe; HENMI, Uchu; IWAKURA, Masanori; SAKANE, Genta; YAMASHITA, Masahiro

- 1F6-58** Study of an orange phase in two-steps vapochromism by acid-vapor on a charge-transfer salt composed of hexacyanidoferrate(II) (Coll. Sci., Rikkyo Univ.; Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TANAKA, Rikako; OKAZAWA, Atsushi; KOJIMA, Norimichi; MATSUSHITA, Nobuyuki

Friday, March 27, AM

Chair: TASHIRO, Shouhei (9 : 00 ~9 : 40)

* 8:50-9:00: interval for laptop PC connection.(2F6-01, 2F6-03, 2F6-04)

- 2F6-01**** Modulation of Single-Chain Magnets (SCMs) Assembled in 1D and 2D network (Grad. Sch. Sci., Tohoku Univ.) ○LI, Zhao-yang; YAMASHITA, Masahiro
- 2F6-03** Preparation Novel Magnetic Ionic liquids composed of Hybrid Type Anion (Kagawa Univ. Graduate School of Education) ○FUKUI, Nobuo; TAKAGI, Yumiko
- 2F6-04** Time-Resolved Infrared Spectroscopy of Iron(II) Spin-Crossover Complex (Grad. Sch. Sci., Eng., Tokyo Tech) ○MUKUTA, Tatsuhiko; TANAKA, Seiichi; KOSHIHARA, Shin-ya; ONDA, Ken

Friday, March 27, PM

Mn

Chair: KOTANI, Hiroaki (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(2F6-25, 2F6-26, 2F6-28, 2F6-30)

- 2F6-25** Synthesis, crystal structures and characterization of Mn(II) coordination polymers (Toyota Central R&D Labs., Inc.; Fac. Sci., Fukuoka Univ.) ○KUMAGAI, Hitoshi; KAWATA, Satoshi; SAKAMOTO, Yoshiyuki
- 2F6-26*** Synthesis of 2D cyano-network coordination polymer nanosheets (Grad. Sch. Sci. Technol., Kumamoto Univ.) ○OHTANI, Ryo; KITAMURA, Yu; HAYAMI, Shinya
- 2F6-28**** Catalytic Two-Electron Reduction of Dioxygen with Manganese Corrole Complexes (Grad. Sch. Eng., Osaka Univ.) ○JUNG, Jieun; OHKUBO, Kei; FUKUZUMI, Shunichi
- 2F6-30** Synthesis and Reactivity of Mn-Active Oxygen Complexes Supported by a Trianionic Tetradentate Ligand Containing β-Diketiminato Framework (Grad. Sch. Eng., Osaka Univ.) ○HANADA, Shin-ichi; MORIMOTO, Yuma; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu

Rh

Chair: KUWATA, Shigeki (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(2F6-32, 2F6-34, 2F6-35, 2F6-36, 2F6-37)

- 2F6-32*** Construction and Structural Transformation of Channel with Coordinatively Unsaturated Sites by the Self-assembly of Discrete Rh(II) Dimer Units (IMS; SOKENDAI; JST ACT-C) ○ITOH, Takahiro; KONDO, Mio; WAKABAYASHI, Kaori; KANAIKE, Mari; MASAOKA, Shigeyuki
- 2F6-34** Synthesis and characterization of trianionic β-diketiminato Rh(III) complexes having two phenolato moieties (Sch. Eng., Osaka Univ.) ○FUJITA, Daiki; SUGIMOTO, Hideki; MORIMOTO, Yuma; ITOH, Shinobu
- 2F6-35** Structures and Electrochemical Properties of Rhodium(I) Dinuclear Complexes with formamidinato bridging ligands (Grad. Sch. Fac. Sci. Eng., Shimane Univ.) ○IDE, Yuki; IKEUE, Takahisa; YOSHIOKA, Daisuke; MIKURIYA, Masahiro; KAWAMOTO, Tatsuya; KATAOKA, Yusuke; HANDA, Makoto
- 2F6-36** Structures and Reactions of Rhodium(I) Complexes Bearing Plumbale Ligands (Grad. Sch. Sci., Eng., Saitama Univ.; Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) ○NAKADA, Marisa; KUWABARA, Takuya; FURUKAWA, Shunsuke; HADA, Masahiko; SAITO, Masaichi
- 2F6-37** Characterization and reactivity of a Rh(III) complex having a deprotonated pyridylamine ligand (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SUGIYAMA, Takumi; KOTANI, Hiroaki; ISHIZUKA, Tomoya; KOJIMA, Takahiko

Rh

Chair: SUGIMOTO, Hideki (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(2F6-39, 2F6-40, 2F6-41, 2F6-42, 2F6-43, 2F6-44)

- 2F6-39** Preparation, Characterization and Catalytic Performances of Oxide-supported RhMo Bimetallic Catalysts Prepared from Rh₂Mo Complexes (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) ○TAJIMA, Shunichi; MURATSUGU, Satoshi; TADA, Mizuki

Mo

- 2F6-40** Synthesis and Reactivity of a Molybdenum Complex Bearing a Protic Tetradentate Tris(pyrazole)-Type Ligand (Grad. Sch. Sci., Eng., Tokyo Tech) ○USHIJIMA, Riku; YAMAGISHI, Hiroaki; KUWATA, Shigeki

- 2F6-41** Synthesis and Reactivity of a Ruthenium Chlorido Complex Bearing a Protic Tetradentate Tris(pyrazole)-Type Ligand (Grad. Sch. Sci., Eng., Tokyo Tech) ○YAMAGISHI, Hiroaki; KUWATA, Shigeki; IKARIYA, Takao
- 2F6-42** Synthesis and Protonation of Molybdenum(0) Dinitrogen Complexes Supported by *N*-Heterocyclic Carbenes (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.; Akita Univ. Faculty of Education and Human Studies; PRESTO) ○AOYAGI, Keiya; SEINO, Hidetake; TADA, Mizuki; OHKI, Yasuhiro

Dy

- 2F6-43** Magnetic property of Dinuclear Lanthanide Single-Molecule Magnets with Redox-Active Derivatives as Bridging Ligands (Fac. Sci., Fukuoka Univ.) ○MICHIIWAKI, Shoichi; ISHIKAWA, Ryuta; KAWATA, Satoshi
- 2F6-44** Distant substitution effect on magnetic properties on Dy based single-ion magnets (Grad. Sch. Sci., Tohoku Univ.) ○KAMILA, Mritunjoy; COSQUER, Goulven; YAMASHITA, Masahiro

La

Chair: YOSHINARI, Nobuto (16 : 30~17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(2F6-46, 2F6-48, 2F6-49, 2F6-51)
- 2F6-46*** Synthesis and properties of unsubstituted polythiophene in coordination nanospaces (Grad. Sch. Eng., Kyoto Univ.; JST-CREST; iCeMS, Kyoto Univ.) ○KITAO, Takashi; MACLEAN, Michael; UEMURA, Takashi; KITAGAWA, Susumu
- 2F6-48** Pressure Effect on Proton Conductivity of Oxalate-bridged Coordination Polymers (Grad. Sch. Sci., Kyoto Univ.; CREST, JST) ○ASAKAWA, Yuta; MAESATO, Mitsuhiko; OKAWA, Hisashi; KITAGAWA, Hiroshi

Gd

- 2F6-49*** Strongest ferromagnetic exchange coupling in gadolinium(III)-nitroxide coordination compounds (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) YOSHITAKE, Toru; ○KANETOMO, Takuya; ISHIDA, Takayuki
- 2F6-51** Development of mono-, di-, triradicals with a 2-pyridyl nitroxide group and application to coordination chemistry (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○IDA, Yumi; ISHIDA, Takayuki

Cd

Chair: MAESATO, Mitsuhiko (17 : 40~18 : 40)

- * 17:30-17:40: interval for laptop PC connection.(2F6-53, 2F6-54, 2F6-56, 2F6-57, 2F6-58)
- 2F6-53** Structural Transformation from D-Type and L-Type Co^{III}₃Cd^{II}₃ Hexanuclear Metallorings to DL-Type Co^{III}₆Cd^{II}₆ Dodecanuclear Metallorings (Grad. Sch. Sci., Osaka Univ.) ○HAYASHI, Daiki; YOSHINARI, Nobuto; KUWAMURA, Naoto; KONNO, Takumi
- 2F6-54***# Amorphization of coordination polymers for enhanced proton conductivity (Grad. Sch. Eng., Kyoto Univ.) ○CHEN, Wenqian; HORIKE, Satoshi; KITAGAWA, Susumu
- 2F6-56**# Gas sensing Device Fabrication Using Redox Active Porous Coordination Networks (POSTECH Division of Advanced Materials Science) ○KIM, Jaegun; KOO, Jin Young; YU, Hojeong; YAKIYAMA, Yumi; OH, Joon Hak; KAWANO, Masaki
- 2F6-57**# Synthesis and Physical Properties of Diazaphenylene-based Multi-Redox-Centered Ligand and Its Porous Coordination Network (Pohang University of Science and Technology Division of Advanced Materials Science) ○HA, Jooyeon; KOO, Jin Young; YAKIYAMA, Yumi; KAWANO, Masaki

Re

- 2F6-58** Regioselective accumulation of photoreactive metal complex at phase-segregation interface of highly ordered cylindrical nanostructure in liquid crystalline diblock copolymer film (KIT) ○TANIO, Yoshiaki; OOTONARI, Masatoshi; ASAOA, Sadayuki

Saturday, March 28, AM

Pd

Chair: YOSHIZAWA, Michito (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3F6-01, 3F6-02, 3F6-03, 3F6-04, 3F6-05, 3F6-06)
- 3F6-01**# Demetalation of Palladium Chain Complexes Supported by Carotene Ligands (IMS; Sch. Physical Sci., SOKENDAI) ○HORIUCHI, Shinnosuke; YAMASHITA, Mitsuki; YAMAMOTO, Koji; MURAHASHI, Tetsuro
- 3F6-02** Metalation of a bis-carotene Pd₅ complex (Sch. Physical Sci., SOKENDAI; IMS) ○YAMASHITA, Mitsuki; HORIUCHI, Shinnosuke; YAMAMOTO, Koji; MURAHASHI, Tetsuro
- 3F6-03** Synthesis and Crystal Packing of trans-Bis(2-aminotroponato)palla-

dium(II) Complexes Bearing Linear Alkyl Chains (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAITO, Masaya; HORI, Takao; KOMIYA, Naruyoshi; NAOTA, Takeshi

- 3F6-04** Heterogeneous metal ion arrangement within M_nL_{2n} complexes (Grad. Sch. Eng., The Univ. of Tokyo) ○KAMIYA, Shuhei; UEDA, Yoshihiro; FUJITA, Daishi; SATO, Sota; FUJITA, Makoto
- 3F6-05** Organic Reactions inside M₁₂L₂₄ Spherical Complexes (Fac. Eng., The Univ. of Tokyo) ○ITO, Hiroaki; UEDA, Yoshihiro; FUJITA, Daishi; FUJITA, Makoto
- 3F6-06** Transition Metal-Mediated Intramolecular Arylation within the Self-Assembled M₆L₄ Host (Grad. Sch. Eng., The Univ. of Tokyo) ○KATO, Taito; SAWADA, Tomohisa; FUJITA, Makoto

Pd

Chair: MURAHASHI, Tetsuro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3F6-08, 3F6-09, 3F6-11, 3F6-12)
- 3F6-08**# Multinuclearization of Silylene-bridged Dipalladium Intermediates Leading to the Formation of Planar Tetrapalladium Complexes (Chem. Res. Lab., Tokyo Tech) ○TOI, Hiroyuki; TANABE, Makoto; OSAKADA, Kohtarō
- 3F6-09*** Synthesis and Reaction of Group 10 transition metal (II) dinuclear complex composed of bridged Tröger's base ligands (Chem. Res. Lab., Tokyo Tech) ○YOSHIGOE, Yusuke; SUZAKI, Yuji; OSAKADA, Kohtarō
- 3F6-11** Synthesis of Metal-linked Molecular Tubes Bearing Acridinium Panels (Chem. Res. Lab., Tokyo Tech) ○YAZAKI, Kohei; SEI, Yoshihisa; YOSHIZAWA, Michito; AKITA, Munetaka
- 3F6-12***# M₂L₄ Coordination Capsules with Anthracene Shells: Recognition of Steroid Hormones with High Selectivity (Chem. Res. Lab., Tokyo Tech) ○YAMASHINA, Masahiro; YOSHIZAWA, Michito; AKITA, Munetaka

Pd

Chair: SUZAKI, Yuji (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3F6-15, 3F6-16, 3F6-18, 3F6-19, 3F6-20)
- 3F6-15** Synthesis and structure of the ladder type one dimension halogen bridging Pd complex (Grad. Sch. Sci., Tohoku Univ.) ○KIMURA, Ryohei; KUMAGAI, Shohei; IGUCHI, Hiroaki; TAKAISHI, Shinya; YAMASHITA, Masahiro
- 3F6-16***# Mixed-valence to averaged-valence phase transition in quasi-one-dimensional bromo-bridged palladium complexes (Tohoku Univ.) ○TAKAISHI, Shinya; YOSHIDA, Takefumi; KUMAGAI, Shohei; YAMASHITA, Masahiro; OKAMOTO, Hiroshi; HOSOMI, Yuka; YOSHIDA, Shoji; SHIGEKAWA, Hidemi; TANAKA, Hisaaki; KURODA, Shin'ichi
- 3F6-18** Synthesis and Characterization of Linear Octanuclear Palladium Complexes Supported by Chiral Tetrakisphosphine Ligand, rac-dpmpm (Grad. Sch. Human. Sci., Nara Women's Univ.) ○MORITA, Konomi; OTAKI, Risa; NAKAMAE, Kanako; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 3F6-19** Synthesis and Properties of Linear Octanuclear Palladium Complexes with Axial Isocyanides Containing Long Alkyl Chains (Fac. Sci., Nara Women's Univ.) ○MIYANO, Haruka; NAKAMAE, Kanako; YAMAMOTO, Chie; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 3F6-20** Structure and Behavior of Tiara-like Octanuclear Palladium and Platinum Complexes Having Carboxylic Acids on Side Chains (Fac. Sci., Nara Women's Univ.) ○SUGIOKA, Saya; YAMASHINA, Yukari; URA, Yasuyuki; KATAOKA, Yasutaka

Saturday, March 28, PM

Pd,Zn

Chair: SHIMAZAKI, Yuichi (13 : 30~14 : 10)

- * 13:20-13:30: interval for laptop PC connection.(3F6-28, 3F6-29, 3F6-30, 3F6-31)
- 3F6-28** Mechanistic Insight into Markovnikov Selective Catalytic Hydrosilylation by Mono-phosphine Palladium(0) Complex (Inst. Eng., Tokyo Univ. of Agri. and Technol.) ○SUDA, Ryoko; ABE, Makoto; KOMINE, Nobuyuki; HIRANO, Masafumi
- 3F6-29** Electrocatalytic proton reduction ability of heterometallic trinuclear sulfido complexes containing an *N*-heterocyclic carbene metal unit (Grad. Sch. Sci., Osaka City Univ.; OCARINA) ○MAEDA, Yuri; HASHIMOTO, Hideki; KINOSHITA, Isamu; NISHIOKA, Takanori
- 3F6-30** Synthesis and functionality of melting coordination polymer crystals (Sch. Eng., Kyoto Univ.) ○KURASHO, Haruna; HORIKE, Satoshi; UMEYAMA, Daiki; KITAGAWA, Susumu
- 3F6-31** Synthesis and properties of water-soluble Zn(II) phthalocyanine complexes peripherally introduced with carboxyphenoxy groups (Grad. Sch. Fac. Sci. Eng., Shimane Univ.) ○FUJISHIRO, Rei; WADA, Kazuki; IKEUE, Takahisa; SUGIMORI, Tamotsu; HANDA, Makoto

Zn

Chair: HORIKE, Satoshi (14 : 20~15 : 20)

* 14:10-14:20: interval for laptop PC connection.(3F6-33, 3F6-35, 3F6-37)

3F6-33* Development of novel synthetic method of carbohydrate chains using micropores of porous coordination polymers (CRIS, Hokkaido Univ.; RIES, Hokkaido Univ.; PRESTO, JST; iCeMS, Kyoto Univ.) ○OCHI, Rika; NORO, Shin-ichiro; UOTANI, Nobuo; TAKAHASHI, Yukiko; KUBO, Kazuya; NAKAMURA, Takayoshi

3F6-35** Isolation of Reactive Species in Porous Coordination Networks and the ab initio X-ray Powder Diffraction Analysis (POSTECH Division of Advanced Materials Science) ○OHTSU, Hiroyoshi; KAWANO, Masaki

3F6-37** Iodine Adsorption in Multi-Interactive Porous Coordination Network (POSTECH AMS) ○YAKIYAMA, Yumi; MORITA, Yasushi; KAWANO, Masaki

Zn

Chair: TSUGE, Kiyoshi (15 : 30~16 : 30)

* 15:20-15:30: interval for laptop PC connection.(3F6-40, 3F6-41, 3F6-42, 3F6-43, 3F6-44, 3F6-45)

3F6-40 Synthesis of a novel chiral Zn-MOF using (*R*)-BINOL-6,6'-dicarboxylic acid and enantioselective chromatographic resolution using the chiral Zn-MOF in HPLC. (Grad. Sch. Sci. and Eng., Kansai Univ.) ○OTSUBO, Yasuhiro; TANAKA, Koichi

3F6-41 Synthesis of novel chiral MOFs using (*R*)-BINOL-4,4'-bis(4-benzoic acid) and (*R*)-BINOL-4,4'-bis(isophthalic acid) (Grad. Sch. Sci. and Eng., Kansai Univ.) ○NAGASE, Shohei; TANAKA, Koichi

3F6-42 Synthesis, crystal structure and catalytic properties of novel chiral MOFs from (*R*)-BINOL-5,5'-dibenzoic acid and (*R*)-BINOL-5,5'-diisophthalic acid (Grad. Sch. Sci. and Eng., Kansai Univ.) ○YOSHIMURA, Keita; TANAKA, Koichi

3F6-43# Single-molecule and real-time TEM imaging of nucleating clusters of metal-organic frameworks (Grad. Sch. Sci., The Univ. of Tokyo; CREST, JST) ○XING, Junfei; OKADA, Satoshi; KUMAMOTO, Akihito; SHIBATA, Naoya; HARANO, Koji; NAKAMURA, Eiichi

3F6-44 One-dimensional growth of the zinc - phthalic acid MOF by the solvent drying method (Sch. Env. Sci. Eng., KUT) ○TAKASE, Kazutaka; HIGASHI, Kouki; UENO, Kimiyoshi; WANG, Pengyu; OHTANI, Masataka; KOBIRO, Kazuya

3F6-45# Absolute Structure Determination of Axially Chiral Allenes by Means of the Crystalline Sponge Method (Grad. Sch. Eng., The Univ. of Tokyo; JST ACCEL; Rigaku Corporation Application Laboratories; CRC, Hokkaido Univ.) ○SAIRENJI, Shihou; SATO, Hiroyasu; HOSHINO, Manabu; INOKUMA, Yasuhide; FUJITA, Makoto; CHANG, Ninghui; TAKAHASHI, Tamotsu; OGASAWARA, Masamichi

Chair: KAWANO, Masaki (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(3F6-47, 3F6-48, 3F6-49, 3F6-50, 3F6-51)

3F6-47 Synthesis and Properties of a Zinc Complex Having an NAD Model Ligand (Grad. Sch. Sci. Eng., Univ. of Toyama; iCeMS, Kyoto Univ.) ○TAKAOKA, Mikio; OHTSU, Hideki; TSUGE, Kiyoshi; TANAKA, Koji

3F6-48 Photo-Driven Oxidation of Alcohols by a Zinc Complex Containing an NAD Model Ligand (Grad. Sch. Sci. Eng., Univ. of Toyama; iCeMS, Kyoto Univ.) ○OHTSU, Hideki; TAKAOKA, Mikio; TSUGE, Kiyoshi; TANAKA, Koji

3F6-49 Preparation and photophysical properties of porphyrinic compounds supported on nanofiber-based thin films (IIS, The Univ. of Tokyo) ○MATSUHASHI, Naoki; WATANABE, Kei; ISHII, Kazuyuki

3F6-50 Synthesis of metal complex nanosheets composed of porphyrin-dipyrrin ligand (Grad. Sch. Sci., The Univ. of Tokyo) ○YAGI, Toshiaki; SAKAMOTO, Ryota; NISHIHARA, Hiroshi

3F6-51** A bis(dipyrrinato)zinc(II) coordination polymer: crystallization and exfoliation of single wires (Grad. Sch. Sci., The Univ. of Tokyo) ○MATSUOKA, Ryota; SAKAMOTO, Ryota; NISHIHARA, Hiroshi

Sunday, March 29, AM

Ti,Hg,Zr,Y

Chair: MORIUCHI, Toshiyuki (9 : 10 ~10 : 00)

* 9:00-9:10: interval for laptop PC connection.(4F6-02, 4F6-03, 4F6-05, 4F6-06)

4F6-02# Electrochemical reduction of dinitrogen to ammonia by using metal complex-supported ionic liquid (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○KATAYAMA, Akira; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki

4F6-03* Synthesis of p-tert-Butylcalix[4]thiacrowns adsorbing Mercury(II) Ion selectively (Fac. Pharm. Sci., Kobe Gakuin Univ.) ○TATSUYA, Takimoto; HIROHITO, Tsue; GEN, Inoue; HIROKI, Takahashi; RUI, Tamura; HIDEAKI, Sasaki

4F6-05 Design of Conducting Porous Coordination Polymer Based on First-Principles Calculation (Grad. Sch. Sci., Kyoto Univ.) ○KOMATSU,

Tokutaro; TAYLOR, Jared M.; SUGIURA, Tasuku; KITAGAWA, Hiroshi
4F6-06 Preparation and Photoluminescence of Lanthanide Porous Coordination Polymers with Phosphine Oxide Ligand (Konan Univ.) ○KATAGIRI, Kosuke; MATSUO, Naoya; MORIMOTO, Rina; DANJO, Hiroshi; MIYAZAWA, Toshifumi

Sr,Bi,Sb,V

Chair: NIHEI, Masayuki (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4F6-08, 4F6-10, 4F6-12, 4F6-13)

4F6-08* Development and Structural Studies of Hbice as a Sr²⁺ Fluorescent Probe (CROSS Neutron R&D Division) ○AKUTSU, Kazuhiro; IWASE, Hiroki

4F6-10* Synthesis and Electronic State of Bi-Pt Hetero-Metal Complexes with Monothioacetic Acid Ligand (Grad. Sch. Sci., Tohoku Univ.) ○YOSHIDA, Takefumi; IGUCHI, Hiroaki; TAKAISHI, Shinya; K. BREEDLOVE, Brian; YAMASHITA, Masahiro

4F6-12 Synthesis and properties and pentacoordinated stiboranes with two and three-coordinated Au(I) fragments (Fac. Sci., Toho Univ.) ○OHNO, Shota; TAKAHASHI, Masashi; MATSUKAWA, Shiro

4F6-13 Synthesis and Structural Characterization of Imido and Hydrazido Vanadium(V) Complexes with Chiral Ligands (Grad. Sch. Eng., Osaka Univ.; ACT-C, JST) MORIUCHI, Toshiyuki; ○SAKURAMOTO, Takashi; HIRAO, Toshikazu

Room F7

Bldg.11 1131

Catalysts and Catalysis

Thursday, March 26, AM

Chair: SAYAMA, Kazuhiro (10 : 30~11 : 30)

* 10:20-10:30: interval for laptop PC connection.(1F7-10, 1F7-11, 1F7-12, 1F7-13, 1F7-14, 1F7-15)

1F7-10 Water splitting over metal oxide photocatalysts with langasite structure (Fac. Sci., Tokyo Univ. of Sci.) ○KIUCHI, Kaho; MOTOMURA, Minami; KURAMOCHI, Yoshiaki; IWASHINA, Katsuya; IWASE, Akihiko; KUDO, Akihiko

1F7-11 Z-schematic water splitting under visible light irradiation using (PbM_{1-x}Cr_xO₄(M = Mo,W))-(Rh-doped SrTiO₃) composite photocatalyst (Fac. Sci., Tokyo Univ. of Sci.) ○ASAKO, Norihiro; IWASHINA, Katsuya; IWASE, Akihiko; KUDO, Akihiko

1F7-12 Z-schematic water splitting using metal sulfides as a hydrogen-evolving photocatalyst (Fac. Sci., Tokyo Univ. of Sci.) ○MIYAZONO, Takeshi; ASAKO, Norihiro; IWASHINA, Katsuya; IWASE, Akihiko; KUDO, Akihiko

1F7-13 Photoelectrochemical Properties of CuInSe₂ Thin Film Electrodes with Absorption Edge at 1240 nm (Fac. Eng., The Univ. of Tokyo) ○SUGISAKI, Sho; MINEGISHI, Tsutomu; KUBOTA, Jun; DOMEN, Kazunari

1F7-14 Photoelectrochemical properties of LaMg₂Ta_{1-x}O_{1+3x}N_{2-3x} (Grad. Sch. Eng., The Univ. of Tokyo) ○KUMAMOTO, Kazunori; PAN, Chengsi; HISATOMI, Takashi; MINEGISHI, Tsutomu; TAKATA, Tsuyoshi; KUBOTA, Jun; DOMEN, Kazunari

1F7-15 Photoelectrochemical properties of BaNbO₃N thin films prepared by sputtering (Grad. Sch. Eng., The Univ. of Tokyo) ○KODERA, Masanori; TAJIMA, Ryo; KATAYAMA, Masao; MINEGISHI, Tsutomu; KUBOTA, Jun; DOMEN, Kazunari

Chair: MINEGISHI, Tsutomu (11 : 40~12 : 00)

* 11:30-11:40: interval for laptop PC connection.(1F7-17, 1F7-18)

1F7-17 Water oxidative production of chemical compounds using WO₃/BiVO₄ photoelectrode (Fac. Sci. Technol., Tokyo Univ. of Sci.; ETRI, AIST) ○MIYASE, Yuta; FUKU, Kojiro; MISEKI, Yugo; GUNJI, Takahiro; SAYAMA, Kazuhiro

1F7-18 Water oxidation over surface-modified Fe₂O₃ photocatalyst under visible light (Fac. Sci. Technol., Tokyo Univ. of Sci.; ETRI, AIST) ○FUJITA, Kana; MAJIMA, Yu; FUKU, Kojiro; MISEKI, Yugo; GUNJI, Takahiro; SAYAMA, Kazuhiro

Thursday, March 26, PM

(13 : 10~14 : 10)

* 13:00-13:10: interval for laptop PC connection.(1F7-26, 1F7-27, 1F7-28, 1F7-29, 1F7-30)

1F7-26 Solar Hydrogen Production using Reduced Graphene Oxide-incorporated Metal Sulfide Photocathodes (Fac. Sci., Tokyo Univ. of Sci.) ○HONMA, Ikko; IWASE, Akihiko; YAMAMOTO, Tomoki; IKEDA, Satoru; KAGA, Hiroshi; KUDO, Akihiko

1F7-27 Development of MLnS₂ (M = Cu, Ag) novel metal sulfide

photocatalysts and photoelectrodes (Fac. Sci., Tokyo Univ. of Sci.)
 ○IKEDA, Satoru; YAMAMOTO, Tomoki; KAGA, Hiroshi; IWASE, Akihiko; KUDO, Akihiko

1F7-28 Study on solar water splitting using Ti-promoted α -Fe₂O₃ photoelectrode catalysts prepared by hydrothermal synthesis (Fac. Eng., Tokyo Univ. of Sci.) ○KATO, Yuki; ISHIBASHI, Masataka; OZAWA, Hironobu; ARAKAWA, Hironori

1F7-29 Study on Preparation of BiVO₄ Photoelectrode Catalysts by the Solvothermal Synthesis and their Solar Water Splitting Performance (Fac. Eng., Tokyo Univ. of Sci.) ○KATO, Harumi; IZUTSU, Satomi; OZAWA, Hironobu; ARAKAWA, Hironori

1F7-30* Photoelectrochemical hydrogen evolution using *p*-type α -Fe₂O₃ electrodes (Toyota Central R&D Labs., Inc. Sustainable Energy and Environment Dept.1) ○SEKIZAWA, Keita; ARAI, Takeo; MORIKAWA, Takeshi

Chair: IZUMI, Yasuo (14 : 20~15 : 20)

* 14:10-14:20: interval for laptop PC connection.(1F7-33, 1F7-34, 1F7-35, 1F7-36, 1F7-37, 1F7-38)

1F7-33 Fabrication of metal-doped BaTaO₂N photoanodes for efficient water splitting under visible light irradiation (Grad. Sch. Eng., Kyoto Univ.) ○YAMANAKA, Yuta; HIGASHI, Masanobu; ABE, Ryu

1F7-34 Highly Selective Photocatalytic Water Oxidation from Iron Redox Mediator on Tungsten(VI) Oxide Particles Prepared by Hydrothermal Reaction (Sch. Eng., Kyoto Univ.) ○MATSUTA, Yuya; TOMITA, Osamu; HOSOKAWA, Saburo; HIGASHI, Masanobu; ABE, Ryu

1F7-35 Synthesis and photoelectrochemical properties of antimony-based ternary semiconductors containing halogen anions (Grad. Sch. Eng., Kyoto Univ.) ○YABUUCHI, Masayoshi; HIGASHI, Masanobu; ABE, Ryu

1F7-36 Synthesis of La₃Ti₂CuS₂O₇-La₅Ti₂AgS₂O₇ solid solutions and their photoelectrochemical properties (Fac. Eng., The Univ. of Tokyo) ○OKAMURA, Shintaro; LIU, Jingyuan; HISATOMI, Takashi; MINEGISHI, Tsutomu; MORIYA, Yosuke; KATAYAMA, Masao; KUBOTA, Jun; DOMEN, Kazunari

1F7-37 Photoelectrochemical Property of CZTS Photocathode Prepared by Electrodeposition and Sulfurization (Grad. Sch. Eng., The Univ. of Tokyo) ○SHINOHARA, Yuki; MA, Guijun; IKEDA, Shigeru; MINEGISHI, Tsutomu; KUBOTA, Jun; DOMEN, Kazunari

1F7-38 Effect of surface modification on photoelectrochemical properties of Cu chalcogenide photocathode for water splitting (Grad. Sch. Eng., The Univ. of Tokyo) ○KUMAGAI, Hiromu; MINEGISHI, Tsutomu; YAMADA, Taro; KUBOTA, Jun; DOMEN, Kazunari

Chair: KATAYAMA, Masao (15 : 30~16 : 30)

* 15:20-15:30: interval for laptop PC connection.(1F7-40, 1F7-42, 1F7-44)

1F7-40* Carrier Behavior in Au/SiO₂-TiO₂ Photocatalyst under Simultaneous Irradiation of Ultraviolet and Visible Light (Toyohashi Univ. of Tech.) ○OKUNO, Teruhisa; KAWAMURA, Go; MUTO, Hiroyuki; MATSUDA, Atsunori

1F7-42* Influence of platinum-loading amount on photocatalytic activities of titania particles prepared from Evonik P25 (Grad. Sch. Env. Sci., Hokkaido Univ.) ○WANG, Kunlei; KOWALSKA, Ewa; OHTANI, Bunsho

1F7-44* Identification of oxidation and reduction reaction sites in CO photoPROX using Cu-adsorbed ZnO photocatalysts (Grad. Sch. Sci., Chiba Univ.) YOSHIDA, Yusuke; ○IZUMI, Yasuo

Chair: HIGASHI, Masanobu (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(1F7-47, 1F7-48, 1F7-49, 1F7-50, 1F7-51, 1F7-52)

1F7-47 Efficient Activation of Molecular Oxygen by Platinum Nanoparticles Supported on Tantalum Oxide by Visible Light (RCSE, Osaka Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○SAKAMOTO, Hirokatsu; OHARA, Tomoyuki; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki

1F7-48 Effects of structural defects on multi-electron reduction properties of carbon nitride photocatalysts (RCSE, Osaka Univ.) ○KOFUJI, Yusuke; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki

1F7-49* The effect of preparation conditions of La₃Ti₂CuS₂O₇ powders and photoelectrodes on the photoelectrochemical properties (Grad. Sch. Eng., The Univ. of Tokyo) ○LIU, Jingyuan; HISATOMI, Takashi; MA, Guijun; MINEGISHI, Tsutomu; MORIYA, Yosuke; KATAYAMA, Masao; KUBOTA, Jun; DOMEN, Kazunari

1F7-50* Ta₃N₅ thin films as photoanodes for solar water splitting (Grad. Sch. Eng., The Univ. of Tokyo) ○WANG, Chizhong; HISATOMI, Takashi; MINEGISHI, Tsutomu; SASAKI, Yutaka; KUBOTA, Jun; YAMADA, Taro; DOMEN, Kazunari

1F7-51* Enhancement of photocatalytic H₂ production over Pt embedded metal-organic framework from water (Grad. Sch. Eng., Osaka Univ.) ○WEN, Meicheng; KUWAHARA, Yasutaka; MORI, Kohsuke; YAMASHITA, Hiromi

1F7-52 Hydrogenations over organically-modified titanium(IV) oxide photocatalyst under visible light irradiation (Kinki Univ.) ○KITAGAWA, Shinya; OKUBO, Yuki; IMAMURA, Kazuya; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

Friday, March 27, AM

Chair: KATAYAMA, Masao (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2F7-01, 2F7-02, 2F7-03, 2F7-05)

2F7-01 Photocatalytic Hydrogen Production from Hydrogen Iodide Aqueous Solution (Grad. Sch. Eng., Kyushu Univ.) ○HAGIWARA, Hidehisa; IDA, Shintaro; ISHIIHARA, Tatsumi

2F7-02 Modifying effect of acene dye on photocatalytic water splitting (Fac. Eng., Kyushu Univ.) ○KAKIGI, Ryota; HIGASHI, Kouhei; DOI, Yasutaka; WATANABE, Motonori; HAGIWARA, Hidehisa; IDA, Shintaro; ISHIIHARA, Tatsumi

2F7-03** Improved Stability of CdS-based Photoelectrodes for Water Splitting (Inst. Sci. Tech. Res., Chubu Univ.; JST ACT-C) ○ABDELHALEEM, Ashraf Mohamed; ZAHRAN, Zaki; NARUTA, Yoshinori

2F7-05** Visible Light Driven Water Splitting Using Dye/Catalyst Co-modified TiO₂ Electrodes (Inst. Sci. Tech. Res., Chubu Univ.) ○MAJUMDER, Samit; ZAHRAN, Zaki; NARUTA, Yoshinori

Chair: IDA, Shintaro (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2F7-08, 2F7-09, 2F7-10, 2F7-11, 2F7-12, 2F7-13)

2F7-08 Photocatalytic CO₂ reduction using a composite of Ag/CaTaO₂N and a binuclear Ru(II) complex (Grad. Sch. Sci., Eng., Tokyo Tech) ○YOSHITOMI, Fumiaki; MAEDA, Kazuhiko; ISHITANI, Osamu

2F7-09 Efficient Visible Light Induced Z-Scheme-Type Photocatalytic Reduction of CO₂ using a Binuclear Ru(II) Complex on Ag-Loaded TaON (Grad. Sch. Sci., Eng., Tokyo Tech; CREST, JST) ○NAKASHIMA, Takuya; MAEDA, Kazuhiko; ISHITANI, Osamu

2F7-10 Improvement of photocatalytic ability for CO₂ reduction of hybrids with ruthenium complexes and carbon nitride (Tokyo Tech Department of chemistry) ○KURIKI, Ryo; SEKIZAWA, Keita; ISHITANI, Oshamu; MAEDA, Kazuhiko

2F7-11* FT-IR and Rapid Scan IR Studies for the Identification of Key Reaction Intermediates in Photocatalytic CO₂ Reduction (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) ○VISWAMBHARAN NAIR, Pratheesh; KOU, Yoki; YAMAMOTO, Daisuke; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo

2F7-12 Improvement of TiO₂ and BiOCl photocatalysts in a Photofuel Cell (Fac. Sci., Chiba Univ.) ○YOSHIBA, Mao; OGURA, Yuta; IZUMI, Yasuo

2F7-13 Monitoring of Photoreduction mechanism of carbon dioxide using layered double hydroxides sensitized for visible light by means of XAFS (Fac. Sci., Chiba Univ.) ○KAWAMURA, Shogo; CARJA, Gabriela; IZUMI, Yasuo

Chair: TERAMURA, Kentaro (11 : 20~12 : 00)

* 11:10-11:20: interval for laptop PC connection.(2F7-15, 2F7-17, 2F7-18)

2F7-15* Photocatalytic Production of Hydrogen Peroxide Using a Photoelectrochemical Cell Composed of Visible-Light Driven Photocatalysts and Cobalt (II) Chlorin Complexes in Sea Water (Grad. Sch. Eng., Osaka Univ.; ALCA, JST) ○MASE, Kentaro; YONEDA, Masaki; HONG, Dachao; YAMADA, Yusuke; FUKUZUMI, Shunichi

2F7-17 Two-step water splitting systems using tungstic acid as oxygen-evolving photocatalyst under visible light irradiation (Grad. Sch. Eng., Kyoto Univ.) ○SUZUKI, Hajime; HIGASHI, Masanobu; ABE, Ryu

2F7-18 Photocatalytic Water Oxidation by using Photocatalytic Particles modified with Polyoxometalate (Grad. Sch. Eng., Kyoto Univ.) ○IWASE, Yukari; TOMITA, Osamu; HIGASHI, Masanobu; ABE, Ryu

Friday, March 27, PM

Chair: MAEDA, Kazuhiko (13 : 10~14 : 10)

* 13:00-13:10: interval for laptop PC connection.(2F7-26, 2F7-27, 2F7-28, 2F7-29, 2F7-30)

2F7-26 Fabrication of Visible Light Responsive Photocatalysts Prepared by Anodization of Titanium Alloy(2):Analysis of Local Structure of Vanadium (IMR, Tohoku Univ.) ○MIZUKOSHI, Yoshiteru; MASAHASHI, Naoya

2F7-27 Photocatalytic C-O and C-N coupling reactions over niobium oxide (Urban Environmental Sci., Tokyo Metropolitan Univ.; Grad. Sch. Eng., Kyoto Univ.; Kyoto Univ. ESICB) ○SHIMADA, Sawako; NODA, Atsuhiko; MIURA, Hiroki; TANAKA, Tsunehiro; SHISHIDO, Tetsuya

2F7-28 Algae control and decomposition of growth inhibitor in hydroponic solution using visible-light active photocatalysts (Grad. Sch. Fac. Sci. Technol., Tokyo Univ. of Sci.) ○SANADA, Takuo; TERASHIMA, Chiaki; NAKATA, Kazuya; KONDO, Takeshi; YUASA, Makoto; FUJISHIMA, Akira

2F7-29 Factors influencing photocatalytic activity of Cu(II) modified TiO₂ under visible light irradiation (Grad. Sch. Sci. Eng., Yamaguchi Univ.) ○NISHIYAMA, Naoto; ADACHI, Kenta; YAMAZAKI, Suzuki

2F7-30* Improvement of power generation by the addition of organic phase in photofuel cells for use of water as a fuel: a discussion based on oxygen recycling (Grad. Sch. Sci., Chiba Univ.) ○OGURA, Yuta; YOSHIBA, Mao; IZUMI, Yasuo

Chair: HISATOMI, Takashi (14 : 20~15 : 20)

* 14:10-14:20: interval for laptop PC connection.(2F7-33, 2F7-35, 2F7-37, 2F7-38)

2F7-33* Mechanistic Study Based on the Analysis of Light-intensity Dependence of Photocatalytic Activities of Bismuth Tungstate Particles with Different Size (Grad. Sch. Env. Sci., Hokkaido Univ.) ○HORI, Haruna; TAKASE, Mai; OHTANI, Bunsho

2F7-35* Energy-resolved Measurements of the Density of Electron Traps in Particulate Photocatalysts by Reversed Double-beam Photoacoustic Spectroscopy (CRC, Hokkaido Univ.) NITTA, Akio; ○TAKASE, Mai; OHTANI, Bunsho

2F7-37 Development of photocatalysts for efficient water splitting by cocatalyst loading using arc plasma deposition method (Sch. Eng., Kyoto Univ.) ○ABE, Toshiaki; HIGASHI, Masanobu; ABE, Ryu

2F7-38 Electrochemical Production of Hydrogen Peroxide from Molecular Oxygen using Tungsten Oxide Cathodes modified with noble-metal cocatalysts. (Sch. Eng., Kyoto Univ.) ○SASAKI, Ryosuke; TOMITA, Osamu; HIGASHI, Masanobu; ABE, Ryu

Chair: YOSHIDA, Hisao (15 : 30~16 : 30)

* 15:20-15:30: interval for laptop PC connection.(2F7-40, 2F7-41, 2F7-42, 2F7-43, 2F7-44, 2F7-45)

2F7-40# Photocatalytic conversion of CO₂ by H₂O over ZnGa₂O₄ (Grad. Sch. Eng., Kyoto Univ.) ○WANG, Zheng; TERAMURA, Kentaro; HOSOKAWA, Saburo; TANAKA, Tsunehiro

2F7-41 Photocatalytic conversion of CO₂ by H₂O as an electron donor over Zn-modified Ga₂O₃ (Grad. Sch. Eng., Kyoto Univ.) ○TERAMURA, Kentaro; WANG, Zheng; IGUCHI, Shoji; TATSUMI, Hiroyuki; HOSOKAWA, Saburo; TANAKA, Tsunehiro

2F7-42 Selective photooxidation of cyclohexene on niobium oxide under visible light irradiation (Grad. Sch. Eng., Kyoto Univ.) ○TAMAI, Kazuki; HOSOKAWA, Saburo; TERAMURA, Kentaro; TANAKA, Tsunehiro

2F7-43 Photocatalytic conversion of organosilicon compounds over titanium (IV) oxide (Fac. Sci. Eng., Kinki Univ.) ○KOJIMA, Yasumi; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

2F7-44 Photocatalytic hydrogenation of furfural over titanium(IV) oxide (Kinki Univ.) ○NAKANISHI, Kousuke; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

2F7-45 Multi-step reaction using a photocatalytic microreactor (Grad. Sch. Sci. Eng., Chuo Univ.) ○NAKAMURA, Akari; YOSHIDA, Keisuke; AMANUMA, Soichiro; KUWAHARA, Shota; KATAYAMA, Kenji

Chair: KOMINAMI, Hiroshi (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(2F7-47, 2F7-48, 2F7-49, 2F7-50, 2F7-51, 2F7-52)

2F7-47# Metal catalyst hybridised with a titanium oxide photocatalyst for direct C-C bond formation between an aromatic ring and acetone. (Fac. Integrated Human Studies, Kyoto Univ.) ○MATSUMOTO, Tomoya; YOSHIDA, Hisao

2F7-48 Investigation of Photocatalyst Based on Aggregate Consisting of Metal Complexes and Its Application to Photo-reduction of Carbon Dioxide (Fac. Sys. Eng., Wakayama Univ.) ○IKEDA, Koji; OSUGA, Hideji; SAKAMOTO, Hidefumi

2F7-49 Synthesis of mesoporous silica-SrTiO₃ nanocube composite materials and their photocatalysis for CO₂ reduction (Grad. Sch. Eng., Hiroshima Univ.) ○OHASHI, Tomomi; MIYOSHI, Yuki; KATAGIRI, Kiyofumi; INUMARU, Kei

2F7-50 Photocatalytic activities of metal oxide/TiO₂ hybrid nanotubes by altering the valence of the metal (Fac. Textile Sci. Technol., Shinshu Univ.) ○TAKANE, Ryo; HANABUSA, Kenji; SUZUKI, Masahiro

2F7-51 Investigation of degradation of a Ni-Al LDH photocatalyst during the photocatalytic conversion of CO₂ in an aqueous solution (Grad. Sch. Eng., Kyoto Univ.) ○IGUCHI, Shoji; TERAMURA, Kentaro; HOSOKAWA, Saburo; TANAKA, Tsunehiro

2F7-52 Synthesis of various layered double hydroxides (LDHs) and investigation of their activities for the photocatalytic conversion of CO₂ in water (Grad. Sch. Eng., Kyoto Univ.) ○HASEGAWA, Yuudai; IGUCHI, Shoji; TERAMURA, Kentaro; HOSOKAWA, Saburo; TANAKA, Tsunehiro

Saturday, March 28, AM

Chair: KATO, Hideki (9 : 00~9 : 40)

* 8:50-9:00: interval for laptop PC connection.(3F7-01, 3F7-02, 3F7-03, 3F7-04)

3F7-01 Photocatalytic conversion of CO₂ by H₂O over rare-earth-metal-oxides modified Ga₂O₃ (Grad. Sch. Eng., Kyoto Univ.) ○TATSUMI, Hiroyuki; WANG, Zheng; TERAMURA, Kentaro; HOSOKAWA, Saburo; TANAKA, Tsunehiro

3F7-02 Photoelectrochemical property of Zn modified Ga₂O₃ for photocatalytic conversion of carbon dioxide in water (Grad. Sch. Eng., Kyoto Univ.) ○KIKKAWA, Soichi; IGUCHI, Shoji; TERAMURA, Kentaro; HOSOKAWA, Saburo; TANAKA, Tsunehiro

3F7-03 Development of New Multi-component Cocatalysts for Photocatalytic Water Splitting Based on Simultaneous Photodeposition (Sch. Sci., Tokyo Tech) ○KANAZAWA, Tomoki; ISHITANI, Osamu; MAEDA, Kazuhiko

3F7-04 Water oxidation over metal-oxide nanosheet photocatalysts using iodate as an electron acceptor (Grad. Sch. Sci., Eng., Tokyo Tech) ○OSHIMA, Takayoshi; ISHITANI, Osamu; MAEDA, Kazuhiko

Saturday, March 28, PM

Chair: IWASE, Akihito (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(3F7-25, 3F7-26, 3F7-27, 3F7-28, 3F7-29, 3F7-30)

3F7-25 A composite catalyst of Pt particles and an organic photocatalyst incorporated in interparticle mesospaces of silica-alumina nanoparticle ensembles for hydrogen evolution in water (Osaka Univ.) ○TADOKORO, Hideyuki; YAMADA, Yusuke; NAQSHBANDI, Masood; CROSSLEY, Maxwell J.; FUKUZUMI, Shunichi

3F7-26 Effect of Supporting Ni and Cu on SnO₂ in Photocatalytic Hydrogen-Evolution Using an Electron Donor-Acceptor Linked Dyad (Grad. Sch. Eng., Osaka Univ.; ALCA, JST) ○SHIKANO, Shinya; YAMADA, Yusuke; FUKUZUMI, Shunichi

3F7-27 Efficient Imine Synthesis from Nitroaromatics and Alcohols on P25 Titanium Dioxide Photocatalyst (RCSE, Osaka Univ.; Grad. Sch. Eng. Sci., Osaka Univ.; CRC, Hokkaido Univ.) ○HIRAKAWA, Hiroaki; KATAYAMA, Miyu; SHIRAIISHI, Yasuhiro; OHTANI, Bunsho; HIRAI, Takayuki

3F7-28 Design of Yolk-Shell type photocatalyst encapsulating titania within a hollow silica particle and assessment of its photocatalytic activity (Grad. Sch. Eng., Osaka Univ.) ○SUMIDA, Yuki; KUWAHARA, Yasutaka; YAMASHITA, Hiromi

3F7-29 Synthesis of Ba-Ta oxide photocatalysts using peroxy method (IMRAM, Tohoku Univ.) ○YAMADA, Shuhei; KATO, Hideki; KOBAYASHI, Makoto; KAKIHANA, Masato

3F7-30 Electronic State of TiO₂ with Au Nanoparticles Studied by Far Ultraviolet Spectroscopy: Au Size Effect (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○RYOKI, Takayuki; TANABE, Ichiro; OZAKI, Yukihiro

(14 : 10~14 : 20)

* 14:00-14:10: interval for laptop PC connection.(3F7-32)

3F7-32 Withdrawn

Room F8
Bldg.11 1132

Catalysts and Catalysis

Thursday, March 26, AM

Chair: INADA, Yasuhiro (10 : 30~11 : 30)

* 10:20-10:30: interval for laptop PC connection.(1F8-10, 1F8-12, 1F8-13, 1F8-15)

1F8-10* Ultra-rapid heating nanoparticle synthetic method for alloying transition metals (Sch. Env. Sci. Eng., KUT) ○OHTANI, Masataka; MURAOKA, Tomoyuki; OKIMOTO, Yuki; TOORİYAMA, Hiroko; KOBIRO, Kazuya

1F8-12 Ultra-Rapid Heating Synthesis of Fe-Based Mixed-Metal Oxide Nanoparticles (Grad. Sch. Eng., KUT) ○TOORİYAMA, Hiroko; OHTANI, Masataka; KOBIRO, Kazuya

1F8-13* Characterization and Nitrate Hydrogenation Performance of a K-doped Al₂O₃ Supported Ru Nanoparticle Catalyst (Grad. Sch. Sci., Nagoya Univ.; IMS; RCMS, Nagoya Univ.; Kasetsart University; The Univ. of Electro-Communications; JASRI; IMCE, Kyushu Univ.) ○MURATSUGU, Satoshi; KITYAKARN, Sutasinee; WANG, Fei; ISHIGURO, Nozomu; SEKIZAWA, Oki; URUGA, Tomoya; KAMACHI, Takashi; YOSHIZAWA, Kazunari; TADA, Mizuki

1F8-15 Attachment of a PtSn bimetallic complex on oxide surfaces and their catalytic performances for C=O selective hydrogenation of α , β -unsaturated aldehydes (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) ○IWASE, Naoyuki; WATTANAKIT, Chularat; MURATSUGU, Satoshi; TADA, Mizuki

Chair: HIKICHI, Shiro (11 : 40~12 : 10)

* 11:30-11:40: interval for laptop PC connection.(1F8-17, 1F8-18, 1F8-19)

1F8-17 Effect of preparation method on 1,2-dichloropropane combustion with WO₃-ZrO₂ (Grad. Sch. Sci. and Eng., Kansai Univ.) ○SHINADA, Yui; IKENAGA, Naoki

1F8-18 Low temperature PM combustion of nanocube-CeO₂/SrFe_{0.85}Co_{0.15}O₃ catalyst (Fac. Eng., Kyushu Univ.) ○KAWASAKI, Takuma; OGAWA, Hiroshi; HAGIWARA, Hidehisa; IDA, Shintaro; ISHIHARA, Tatsumi

1F8-19 Direct synthesis of H₂O₂ on Pd-Au catalyst supported on TiO₂ (10) Effect of pH (Fac. Eng., Kyushu Univ.) ○MURAKAMI, Kohei; HAGIWARA, Hidehisa; IDA, Shintaro; ISHIHARA, Tatsumi

Thursday, March 26, PM

Chair: NAKAJIMA, Kiyotaka (13 : 20~14 : 10)

- * 13:10-13:20: interval for laptop PC connection.(1F8-27, 1F8-28, 1F8-29, 1F8-30, 1F8-31)
- 1F8-27** Preparation and catalytic oxidation properties of Au nanoparticles catalysts immobilized on thiol functionalized mesoporous materials (Fac. Eng., Kanagawa Univ.) ○HAKEDA, Tomoki; NAKAZAWA, Jun; HIKICHI, Shiro
- 1F8-28** Selective oxidation of methane to methanol with N₂O catalyzed by tris (2-pyridylmethyl)amine metal complexes supported on mesoporous silica-alumina (Grad. Sch. Eng., Osaka Univ.; ALCA, JST) ○ARATANI, Yusuke; YAMADA, Yusuke; FUKUZUMI, Shunichi
- 1F8-29** Oxidation of glycerol over supported Pt-based bimetallic catalyst (Urban Environmental Sci., Tokyo Metropolitan Univ.; Kyoto Univ. ESICB) ○NAGAO, Aiko; MIURA, Hiroki; SHISHIDO, Tetsuya
- 1F8-30** Selective oxidation of sulfides over copper complexes encapsulated in metal cation-exchanged zeolite (Grad. Sch. Sci., Eng., Ehime Univ.) ○MIYAKE, Yuki; HISADA, Keisuke; YAMAGUCHI, Syuhei; YAHIRO, Hidenori
- 1F8-31** Modeling of active sites for CO-PROX reaction over CuO-supported TiO₂ catalysts using Ti₃O₅(OH)₄ clusters linked by MOF and the interpretation of support effects (Grad. Sch. Sci., Chiba Univ.) ○YOSHIDA, Yusuke; IZUMI, Yasuo

Chair: MURATSUGU, Satoshi (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(1F8-33, 1F8-34, 1F8-35, 1F8-36, 1F8-37, 1F8-38)
- 1F8-33** Nano size effect of the supported NiO nanocluster on the thiophenol coupling reaction and structural analysis by XAFS (Grad. Sch. Eng., Chiba Univ.) ○SASAKI, Takuro; ICHIKUNI, Nobuyuki; HARA, Takayoshi; SHIMAZU, Shogo
- 1F8-34** Redox property of dilute Ni catalysts supported on SiO₂ (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○SUZUKI, Atsushi; YAMASHITA, Shohei; KATAYAMA, Misaki; INADA, Yasuhiro
- 1F8-35** Redox properties of Co catalysts supported on mesoporous silica (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○ISHII, Shunpei; KATAYAMA, Misaki; INADA, Yasuhiro
- 1F8-36** Carburization of mesoporous silica supported niobium species under reduced pressure (Fac. Eng., Chiba Univ.) ○YANAGASE, Fumitaka; ICHIKUNI, Nobuyuki; HARA, Takayoshi; SHIMAZU, Shogo
- 1F8-37** Study on the selectivity of propane photo-oxidation reaction on SBA-15 supported molybdenum oxide catalyst (Grad. Sch. Eng., Chiba Univ.) ○KIM, Juyang; ICHIKUNI, Nobuyuki; HARA, Takayoshi; SHIMAZU, Shogo
- 1F8-38** Characterization of ReO₃-Pd/CeO₂ catalyst using X-ray spectroscopy (Grad. Sch. Eng., Tohoku Univ.) ○OTA, Nobuhiko; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi

Chair: ICHIKUNI, Nobuyuki (15 : 30~16 : 20)

- * 15:20-15:30: interval for laptop PC connection.(1F8-40, 1F8-41, 1F8-42, 1F8-43)
- 1F8-40** DFT study of glucose oxidation using Au catalyst (Grad. Sch. Sci., Osaka Univ.) ○OGUNI, Atsushi; SAKATA, Kohei; TADA, Kohei; KAWAKAMI, Takashi; YAMANAKA, Shusuke; OKUMURA, Mitsutaka
- 1F8-41** Theoretical study of CO oxidation by M-vk mechanism on Ag/CeO₂ surface (Grad. Sch. Eng., The Univ. of Tokyo) ○KINDAICHI, Rinpei; USHIYAMA, Hiroshi; YAMASHITA, Koichi
- 1F8-42** Ru supported catalyst for NH₃ synthesis under mild condition (2) characterization of Ru/Pr₆O₁₁ catalyst (Fac. Eng., Oita Univ.) ○IMAMURA, Kazuya; MIYAHARA, Shin-ichiro; SATO, Katsutoshi; YAMAMOTO, Tomokazu; MATSUMURA, Sho; NAGAOKA, Katsutoshi
- 1F8-43*** Ab Initio Molecular Dynamics Simulation on Adsorption of H₂, N₂, and NH₃ on Ru Clusters Supported on a MgO Surface (Grad. Sch. Sci. Technol., Kumamoto Univ.) ○SUGIMOTO, Manabu

Chair: SHISHIDO, Tetsuya (16 : 30~17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(1F8-46, 1F8-48, 1F8-50)
- 1F8-46*** Selective Oxidation with Hydrogen Peroxide Catalyzed by Peroxotungstate Supported on Zinc-Modified Tin Dioxide (Grad. Sch. Eng., The Univ. of Tokyo) ○NOJIMA, Susumu; KAMATA, Keigo; SUZUKI, Kosuke; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 1F8-48*** Visible-Light-Responsive Multielectron Redox Catalysis of Lacunary Polyoxometalates Induced by Substrate Coordination (Grad. Sch. Eng., The Univ. of Tokyo) ○JEONG, Jinu; SUZUKI, Kosuke; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 1F8-50**** Transformation of Terminal Alkenes into Primary Allylic Alcohols over Supported Palladium Catalysts (Grad. Sch. Sci., Kyushu Univ.) ○ZHANG, Zhenzhong; ISHIDA, Tamao; HAMASAKI, Akiyuki; TOKUNAGA, Makoto

Chair: NAKAJIMA, Kiyotaka (17 : 40~18 : 40)

- * 17:30-17:40: interval for laptop PC connection.(1F8-53, 1F8-55, 1F8-56, 1F8-58)

- 1F8-53*** Synthesis of heterocyclic compounds via alkenylation of aromatic C-H bonds by supported Ru catalysts (Urban Environmental Sci., Tokyo Metropolitan Univ.; Kyoto Univ. ESICB; Kagawa Univ. Fac. of medicine) ○MIURA, Hiroki; TSUTSUI, Kentaro; WADA, Kenji; SHISHIDO, Tetsuya
- 1F8-55** [2+2+1] Cycloaddition of aldehyde, alkyne and CO by supported Ru catalysts (Urban Environmental Sci., Tokyo Metropolitan Univ.; Kyoto Univ. ESICB) ○TAKEUCHI, Kazuki; MIURA, Hiroki; SHISHIDO, Tetsuya
- 1F8-56*** Chemoselective Acylation of Primary Alcohols by a Highly Negatively Charged Germanodecatungstate (Grad. Sch. Eng., The Univ. of Tokyo) ○SUGAHARA, Kosei; SATAKE, Naoto; KAMATA, Keigo; MIZUNO, Noritaka
- 1F8-58** Selective Ring-Opening Addition Reaction of Cyclic Ester and Primary Alcohol Catalyzed by Bulky Lewis Pairs. (Grad. Sch. Eng., Hiroshima Univ.) ○YAMAGUCHI, Kentaro; TANAKA, Ryo; NAKAYAMA, Yuushou; SHIONO, Takeshi

Friday, March 27, AM

Chair: ARITANI, Hirofumi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2F8-01, 2F8-02, 2F8-03, 2F8-04, 2F8-05, 2F8-06)
- 2F8-01** ZnBr₂ and OMS-2 co-catalyzed aerobic oxidative cross-coupling of terminal alkynes and tertiary amines (Grad. Sch. Eng., The Univ. of Tokyo) ○JIN, Xiongjie; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 2F8-02** Synthesis of Thiocyanates and Trifluoromethyl Sulfides through Catalytic Oxidative Nucleophilic Strategy (Grad. Sch. Eng., The Univ. of Tokyo) ○SAKAGAMI, Konomi; YAMAGUCHI, Kazuya; MIYAMOTO, Yumi; JIN, Xiongjie; MIZUNO, Noritaka
- 2F8-03** Cyanation of alkenes with nitromethane as a source of cyano group mediated by proton-exchanged montmorillonite (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○MOTOKURA, Ken; MATSUNAGA, Kenta; MIYAJI, Akimitsu; BABA, Toshihide
- 2F8-04** Synthesis and Oxidation Catalysis of a Titanium-Substituted Phosphorus-Centered Polyoxometalate (Grad. Sch. Eng., The Univ. of Tokyo) ○TAKAHASHI, Eri; KIKUKAWA, Yuji; SUZUKI, Kosuke; KAMATA, Keigo; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 2F8-05** Hydrosilylation of α, β -unsaturated ketones by supported PdAu bimetallic catalysts (Urban Environmental Sci., Tokyo Metropolitan Univ.; Kyoto Univ. ESICB) ○ENDO, Keisuke; MIURA, Hiroki; SHISHIDO, Tetsuya
- 2F8-06** Linear polystyrene-stabilized PdO nanoparticles-catalyzed Hiyama cross-coupling reaction in water (Fac. Eng., OIT) OHTAKA, Atsushi; ○KOTERA, Takamasa; OKAGAKI, Toshiyuki; UEDA, Kohei; SHIMOMURA, Osamu; NOMURA, Ryoki

Chair: YAMAGUCHI, Kazuya (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2F8-08, 2F8-09, 2F8-10, 2F8-11, 2F8-13)
- 2F8-08*** Pd-Ru/PVP Nanoparticle-Catalyzed Cascade Reaction: Alkylation of Indoles with MeOH and EtOH under Ambient Condition (Fac. Eng., Oita Univ.; Grad. Sch. Eng., Kyushu Univ.; Grad. Sch. Sci., Kyoto Univ.; CREST, JST) ○KUTUBI, Md. Shahajahan; SATO, Katsutoshi; YAMAMOTO, Tomokazu; MATSUMURA, Sho; KUSADA, Kohei; KOBAYASHI, Hirokazu; KITAGAWA, Hiroshi; NAGAOKA, Katsutoshi
- 2F8-09** Carbolactonization of β, γ -unsaturated carboxylic acids with hypervalent iodine on copper planted mesoporous silica (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○KAINUMA, Ryohei; ISHITANI, Haruro; IWAMOTO, Masakazu
- 2F8-10** Heterogeneous Oxidative Mannich-Type Reactions of Benzylamine Derivatives on Surface-Modified Cu-MCM-41 (Tokyo Tech) ○OTA, Naoto; ISHITANI, Haruro; IWAMOTO, Masakazu
- 2F8-11*** 1,4-Addition of aryl and alkylboronic acids to cyclohexenone catalyzed by immobilized Rh complex and tertiary amine on same solid surface (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○NODA, Hiroto; MOTOKURA, Ken; CHUN, Wang-jae; MIYAJI, Akimitsu; YAMAGUCHI, Sho; BABA, Toshihide
- 2F8-13** Selective Dehydrocyclization of n-Heptane Using Zeolite-Alumina Composite Supported NiMo Catalysts (Grad. Sch. Eng., Mie Univ.) ○ISHIHARA, Atsushi; ITOH, Akihiro; HASHIMOTO, Tadanori; NASU, Hiroyuki

Chair: MURAMATSU, Atsushi (11 : 20~12 : 00)

- * 11:10-11:20: interval for laptop PC connection.(2F8-15)
- 2F8-15** CSJ Award for Technical Development Establishment of Highly Thermally Stable Pyrochlore Type CeO₂-ZrO₂ Oxygen Storage Material and Development of High Performance Three-way Catalyst (Toyota Central R&D Labs., Inc.; Toyota Motor Corp.; Cataler Corp.) ○MORIKAWA, Akira; SUDA, Akihiko; YAMAMURA, Kae; NOBUKAWA, Takeshi; CHIBA, Akiya

Friday, March 27, PM

Chair: HOSOKAWA, Saburo (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(2F8-26, 2F8-27, 2F8-28,

2F8-29, 2F8-30, 2F8-31)

- 2F8-26** Observation of adsorbed species formed during three-way catalytic reaction over precious metal catalysts supported on CeO₂-ZrO₂ (ACRC, Nagoya Inst. of Tech.) NAKAMURA, Yuichiro; HATTORI, Masatomo; HANEDA, Masaaki
- 2F8-27** Selective catalytic reduction of NO over Ir catalyst supported on various Al₂O₃ (ACRC, Nagoya Inst. of Tech.) ODOI, Yasuyuki; HATTORI, Masatomo; HANEDA, Masaaki
- 2F8-28** Ru-based bimetallic catalysts for Selective catalytic reduction of NO and CO oxidation (Urban Environmental Sci., Tokyo Metropolitan Univ.; Kyoto Univ. ESICB) ONHSIO, Takahiro; MIURA, Hiroki; SHISHIDO, Tetsuya
- 2F8-29** Active point of nitrogen monoxide adsorption on sodium ferrite (Fac. Sci. Technol., Tokyo Univ. of Sci.) OISHIDUKA, Yuto; YAMAGUCHI, Yuki; ITO, Shigeru; FUJIMOTO, Kenjiro
- 2F8-30** Effect of Surface Modification of Iron-treated Hydroxyapatite Catalyst in Photo-Fenton Reaction (Saitama Med. Univ. Faculty of Medicine, Department of Liberal Arts; Taihei Chemical Industrial Co., Ltd. Division of Research and Development) OMORIGUCHI, Takeshi; NAKAGAWA, Souhei
- 2F8-31** Iron-nitrogen structures in silicon carbides catalyze an aerobic methane oxidation (Grad. Sch. Eng., The Univ. of Tokyo) OKOSHIKAWA, Hiroyuki; KAMIYA, Kazuhide; HASHIMOTO, Kazuhito; NAKANISHI, Shuji

Chair: MIURA, Hiroki (14 : 20~15 : 00)

* 14:10-14:20: interval for laptop PC connection.(2F8-33, 2F8-34, 2F8-35, 2F8-36)

- 2F8-33** Redox property of Fe-based mixed oxide synthesized by a polymerized complex method (Grad. Sch. Eng., Kyoto Univ.) OMAEDA, Raizo; HOSOKAWA, Saburo; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 2F8-34** Selective catalytic reduction of NO on transition-metal modified YbFeO₃ catalysts (Grad. Sch. Eng., Kyoto Univ.) OSHIBANO, Takuya; HOSOKAWA, Saburo; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 2F8-35** Microwave Absorption at Heterogeneous Interfaces and its Applications (Grad. Sch. Sci., Eng., Tokyo Tech) OSATO, Yuka; MAITANI, Masato; MOCHIZUKI, Dai; SUZUKI, Eiichi; WADA, Yuji
- 2F8-36*** Core-shell PdNiP@Pt nanoparticles for electrooxidation of methanol (WPI-AIMR, Tohoku Univ.) OXU, Jing; ZHAO, Ming; ASAO, Naoki

Chair: NAKAGAWA, Yoshinao (15 : 10~16 : 10)

* 15:00-15:10: interval for laptop PC connection.(2F8-38, 2F8-41, 2F8-42)

- 2F8-38** Young Scholar Lectures of CSJ Lactic acid production from triose sugar in water over titania with water-tolerant Lewis acid sites (MSL, Tokyo Tech) ONAKAJIMA, Kiyotaka
- 2F8-41** Kinetic analysis of cyclodehydration of solid acid catalysts (Grad. Sch. Eng., The Univ. of Tokyo) OTAKAGALI, Atsushi; KIKUCHI, Ryuji; OYAMA, S. Ted
- 2F8-42*** Correlation between catalytic activity and surface structure of Cr supported hydroxalcite (Cr/HT) for xylose conversion (Sch. Mat. Sci., JAIST) OSHIROTORI, Mahiro; NISHIMURA, Shun; EBITANI, Kohki

Chair: TAKAGALI, Atsushi (16 : 20~17 : 10)

* 16:10-16:20: interval for laptop PC connection.(2F8-45, 2F8-46, 2F8-47, 2F8-48, 2F8-49)

- 2F8-45** Development of new solid catalyst for Michael addition of Indoles (Sch. Mat. Sci., JAIST) OMATSUZAWA, Ryosuke; EBITANI, Kohki
- 2F8-46** CeO₂ catalyst system for direct synthesis of methyl *N*-phenyl carbamate from CO₂, methanol, and aniline (Sch. Eng., Tohoku Univ.) OITO, Ryoma; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi
- 2F8-47** Selective *N*-methylation of aniline with CO₂ and H₂ catalyzed by supported Cu catalyst (Sch. Eng., Tohoku Univ.) OMIURA, Ayaka; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi
- 2F8-48** Reaction mechanism of the synthesis of ureas from CO₂ and amines catalyzed by CeO₂. (Grad. Sch. Eng., Tohoku Univ.) OITO, Kazuki; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi
- 2F8-49** Evaluation of basicity of layered double hydroxides (LDH) by Knövenagel condensations (Grad. Sch. Eng., Kyoto Univ.) OYONEKAWA, Satoshi; TERAMURA, Kentaro; HOSOKAWA, Saburo; TANAKA, Tsunehiro

Chair: ISHITANI, Haruro (17 : 20~18 : 00)

* 17:10-17:20: interval for laptop PC connection.(2F8-51, 2F8-53, 2F8-54)

- 2F8-51**** Selective ammoxidation of alkylbenzenes on M/ β -zeolites (M: Ni, Co, V, etc.) catalysts (The University of Electro-Communications) OWANG, Linsheng; YAMAMOTO, Sadaaki; HIGASHI, Kotaro; IWASAWA, Yasuhiro
- 2F8-53** The introduction of fullerene within the mesoporous silica and the application as a catalyst support (Grad. Sch. Eng., Osaka Univ.) ONAKATSUKA, Kazuki; MORI, Kohsuke; KUWAHARA, Yasutaka; YAMASHITA, Hiromi
- 2F8-54** Preparation of Pt-containing hollow silica and its activity for CO oxidation reaction (Grad. Sch. Sci. and Eng., Kansai Univ.) IKENAGA, Naoki; OMORI, Takuto

Saturday, March 28, AM

Chair: KAMATA, Keigo (9 : 00 ~9 : 30)

* 8:50-9:00: interval for laptop PC connection.(3F8-01, 3F8-02, 3F8-03)

- 3F8-01** Suzuki-Miyaura Coupling Reaction By Use of Pd-Intercalated Ni-Zn HDS Catalyst (Grad. Sch. Eng., Chiba Univ.) OHARA, Takayoshi; SHIMADA, Mami; ICHIKUNI, Nobuyuki; SHIMAZU, Shogo
- 3F8-02** Catalytic Activity of Multi-metallic Subnanoclusters for Oxidation Reaction (Chem. Res. Lab., Tokyo Tech) OKOIZUMI, Hiromu; TAKAHASHI, Masaki; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 3F8-03** Reductive Catalysis of Platinum Subnanoclusters Templated by a Pnenylazomethine Dendrimer (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ONAKAMICHI, Aki; TAKAHASHI, Masaki; IMAOKA, Takane; YAMAMOTO, Kimihisa

Saturday, March 28, PM

Chair: TAMURA, Masazumi (12 : 50~13 : 50)

* 12:40-12:50: interval for laptop PC connection.(3F8-24, 3F8-25, 3F8-27, 3F8-28, 3F8-29)

- 3F8-24** Analysis of catalytic dehydrogenation of ethylbenzene under microwave irradiation using electromagnetic and thermal flow simulation. (Grad. Sch. Sci., Eng., Tokyo Tech) OHANEISHI, Naoto; MOCHIZUKI, Dai; MAITANI, Masato; SUZUKI, Eiichi; FUJII, Satoshi; WADA, Yuji
- 3F8-25*** Theoretical study on hydrogenation of anthraquinone in the anthraquinone process (IMCE, Kyushu Univ.) OKAMACHI, Takashi; OGATA, Tatsunobu; MORI, Eiichiro; IURA, Katsuhiko; OKUDA, Norikazu; NAGATA, Masaki; YOSHIZAWA, Kazunari
- 3F8-27** CO₂ hydrogenation over Al₂O₃ supported on Ni-Cu alloy catalysts (Grad. Sch. Eng., Kyoto Univ.) OSAKAI, Ryusuke; HOSOKAWA, Saburo; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 3F8-28** Hydrogenation of 1,4-dicarboxylic acids from renewable feedstock using Ir complexes (Grad. Sch. Sci., Nagoya Univ.) ONIMURA, Sota; NARUTO, Masayuki; NOYORI, Ryoji; SAITO, Susumu
- 3F8-29** Effects of Sn addition on the conversion reaction of ethanol to the C4 compounds over Ru/Al₂O₃ catalyst (Fac. Eng., Kanagawa Univ.) OISHIKAWA, Syuhei; YOSHIDA, Akihiro; NAKAZAWA, Jun; HIKICHI, Shiro; NAITO, Shuichi

Chair: SHISHIDO, Tetsuya (14 : 00~15 : 00)

* 13:50-14:00: interval for laptop PC connection.(3F8-31, 3F8-33, 3F8-35)

- 3F8-31**** Selective production of n-hexane from cellulose by using Ir-ReOx/SiO₂ + HZSM-5 catalysts (Grad. Sch. Eng., Tohoku Univ.) OSIBAO, Liu; MASAZUMI, Tamura; YOSHINAO, Nakagawa; KEIICHI, Tomishige
- 3F8-33**** Hydrogenation of lactic acid to 1,2-propanediol over Ru-MoO_x/C catalyst (Grad. Sch. Eng., Tohoku Univ.) OTAKEDA, Yauyuki; SHOJI, Tomohiro; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi
- 3F8-35*** Gold Nanoparticles-catalyzed Dehydrogenative Couplings of Silanes with Active Hydrogen Compounds ~Remarkable Effect of O₂~ (Sch. Eng. Sci., Osaka Univ.) OITSUDOME, Takato; URAYAMA, Teppi; MAENO, Zen; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

Chair: MITSUDOME, Takato (15 : 10~16 : 10)

* 15:00-15:10: interval for laptop PC connection.(3F8-38, 3F8-39, 3F8-40, 3F8-41, 3F8-42, 3F8-43)

- 3F8-38** Selective hydrogenation of α, β -unsaturated aldehyde over Ni-Pt/TiO₂ catalysts (Urban Environmental Sci., Tokyo Metropolitan Univ.; Kyoto Univ. ESICB) ONOGUCHI, Keitaro; MIURA, Hiroki; SHISHIDO, Tetsuya
- 3F8-39** Direct synthesis of ethyl acetate from ethanol over supported Cu catalysts (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.; Kyoto Univ. ESICB) OKITAJIMA, Takahiro; MIURA, Hiroki; SHISHIDO, Tetsuya
- 3F8-40** Hydrogenolysis of glycerol over supported Pt catalysts (Urban Environmental Sci., Tokyo Metropolitan Univ.; Kyoto Univ. ESICB) OKOBAYASHI, Hayato; MIURA, Hiroki; SHISHIDO, Tetsuya
- 3F8-41** Selective hydrogenation of unsaturated carbonyl compounds over Ir-Fe catalyst (Grad. Sch. Eng., Tohoku Univ.) OYONEZAWA, Dai; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi
- 3F8-42** Synthesis of butanols from 1,4-anhydroerythritol over molybdenum oxide modified rhodium catalyst (Grad. Sch. Eng., Tohoku Univ.) OARAI, Takahiro; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi
- 3F8-43*** An efficient heterogeneous recyclable Ni-Fe based alloy catalyst for chemoselective hydrogenation of furfural (Fac. Eng., Chiba Univ.) OPUTRO, Wahyu; HARA, Takayoshi; ICHIKUNI, Nobuyuki; SHIMAZU, Shogo

Chair: HARA, Takayoshi (16 : 20~17 : 30)

* 16:10-16:20: interval for laptop PC connection.(3F8-45, 3F8-46, 3F8-48, 3F8-49, 3F8-50, 3F8-51)

- 3F8-45** Characterization of Active Mo species and their deactivation over Mo/

HFI-based catalysts for MTB (Fac. Eng., Saitama Inst. of Tech.) MOGI, Subaru; MIZUE, Satoshi; ○ARITANI, Hirofumi

- 3F8-46*** Partial hydrogenolysis of vicinal cis-diols over Pd-added W catalyst (Grad. Sch. Eng., Tohoku Univ.) ○NAKAGAWA, Yoshinao; AMADA, Yasushi; OTA, Nobuhiko; TAMURA, Masazumi; TOMISHIGE, Keiichi
- 3F8-48** Development of Hydroxapatite-supported Ru-V Bimetallic Catalyst for Highly Selective Reduction of Amides to Amines (Sch. Eng. Sci., Osaka Univ.) ○TSUBOMOTO, Yamato; MITSUDOME, Takato; MAENO, Zen; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 3F8-49** Selective hydrogenation of 3-nitrostyrene over metal oxide modified Ru catalysts (Sch. Eng., Tohoku Univ.) ○YUASA, Naoto; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi
- 3F8-50** Selective Hydrogenation of Levulinic Acid to 1,4-Pentanediol Catalyzed by Hydroxyapatite-Supported Platinum and Molybdenum (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAGATSU, Yuki; MAENO, Zen; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 3F8-51** Synthesis of amines from nitriles using solid catalyst and formic acid. (Sch. Mat. Sci., JAIST) ○OZAWA, Naoto; EBITANI, Kohki

Room F9

Bldg.11 1133

Energy and Related Chemistry, Geo and Space Chemistry

Thursday, March 26, AM

Secondary Battery, Solid Electrolyte, Capacitor

Chair: DOKKO, Kaoru (9 : 30 ~ 10 : 30)

- * 9:20-9:30: interval for laptop PC connection.(1F9-04, 1F9-05, 1F9-06, 1F9-08)
- 1F9-04** Improvement of cycle-life performance in benzoquinone-type organic cathode materials for rechargeable battery (Grad. Sch. Sci., Osaka Pref. Univ.; Murata Manufacturing Co., Ltd.) ○YOKOJI, Takato; KAMEYAMA, Yuki; SAKAIDA, Shun; MARUYAMA, Norihiko; SATOH, Masaharu; MATSUBARA, Hiroshi
- 1F9-05** Raman spectroscopy of LiCoO₂ composite positive electrodes for all-solid-state lithium batteries using sulfide solid electrolytes (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; ○OTOYAMA, Misae; ITO, Yusuke; TATSUMISAGO, Masahiro
- 1F9-06*** A mechanism of phase change and irreversible reaction in NaCoO₂ by insertion and extraction of sodium (Central Research Institute of Electric Power Industry) ○KOBAYASHI, Takeshi; OHNO, Yasutaka; YOSHIDA, Hiroyuki; SHONO, Kumi; YAMAMOTO, Tohru; KOBAYASHI, Yo; MIYASHIRO, Hajime
- 1F9-08*** Cathode Performance of Sulfur-Doped Vanadium Pentoxide Gel Prepared by Microwave Plasma Generated Using Carbon Felt (Grad. Sch. Eng., Saitama Inst. of Tech.) ○INAMOTO, Masashi; KURIHARA, Hideki; YAJIMA, Tatsuhiko

Chair: MUNAKATA, Hirokazu (10 : 40~11 : 30)

- * 10:30-10:40: interval for laptop PC connection.(1F9-11, 1F9-12, 1F9-13, 1F9-14, 1F9-15)
- 1F9-11** Preparation of Li₃PS₄-BaTiO₃ composite electrolytes by mechanical milling and their characterization (Grad. Sch. Eng., Osaka Pref. Univ.; Idemitsu Kosan Co. Ltd) HAYASHI, Akitoshi; ○FUKUSHIMA, Akihiro; NAGAO, Kenji; SEINO, Yoshikatsu; HIGUCHI, Hiroyuki; TATSUMISAGO, Masahiro
- 1F9-12** Structural analyses of Li₂S-P₂S₅ solid electrolytes by X-ray photoelectron spectroscopy (Grad. Sch. Eng., Osaka Pref. Univ.; RIKEN) HAYASHI, Akitoshi; ○OH, Gigun; MATSUYAMA, Takuya; DEGUCHI, Minako; NAKAO, Aiko; TATSUMISAGO, Masahiro
- 1F9-13** Evaluation of mechanical properties of Na₂S-P₂S₅ glass electrolytes with sodium ion conductivity (Grad. Sch. Eng., Osaka Pref. Univ.; AIST) HAYASHI, Akitoshi; ○NOSE, Masashi; KATO, Atsutaka; SAKUDA, Atsushi; TATSUMISAGO, Masahiro
- 1F9-14** Characterization of sodium ion conducting Na₃BO₃-Na₂SO₄ glasses with prepared by a mechanical milling technique (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; ○SUZUKI, Kenji; NAKAMURA, Yuta; TANIBATA, Naoto; TATSUMISAGO, Masahiro
- 1F9-15** Hydrothermal synthesis of Mg-Al layered double hydroxides and their ionic conductivity (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; ○HIDAKA, Masahiko; HAKARI, Takashi; TATSUMISAGO, Masahiro

Thursday, March 26, PM

Chair: SONE, Yoshitsugu (14 : 20~15 : 10)

- * 14:10-14:20: interval for laptop PC connection.(1F9-33, 1F9-34, 1F9-35,

1F9-36)

- 1F9-33** Development of a hybrid supercapacitor based on water stable protected anode (Shinshu Univ. Center for Energy and Environmental Science) ○MAKINO, Sho; SUGIMOTO, Wataru; ASANO, Mitsutoshi; SUGIMOTO, Shigeyuki
- 1F9-34** Preparation of all-solid-state electrochemical capacitors using Li₃PS₄ glass electrolyte-CNT composite electrode (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; ○YOSHIMI, Shunsuke; HAKARI, Takashi; TATSUMISAGO, Masahiro
- 1F9-35** Fundamental Study of the Vanadium Redox Flow Battery by Use of Boron Doped Diamond Electrode. (Grad. Sch. Eng., Utsunomiya Univ.) ○YOSHIIHARA, Sachio; SAITOU, Yosuke

Fuel Cell

- 1F9-36*** In-situ investigation of platinum based alloy cathode catalysts using ambient pressure hard X-ray photoelectron spectroscopy (IMS) ○TAKAGI, Yasumasa; WANG, Heng; UEMURA, Yohei; SEKIZAWA, Oki; URUGA, Tomoya; TADA, Mizuki; IWASAWA, Yasuhiro; YOKOYAMA, Toshihiko

Chair: SUGIMOTO, Wataru (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(1F9-39, 1F9-41, 1F9-43)
- 1F9-39*** In-situ XAFS, STEM, and Electrochemical Studies on Degradation Processes of Pt/C, Pt₃Co/C, and Pt₃Ni/C Cathode Catalysts in PEFCs During Repeated Gas Exchange Cycles (Innovation Res. Ctr. for Fuel Cells, The Univ. of Electro-Communications; JASRI/Spring-8) ○SAMJESKE, Gabor; HIGASHI, Kotaru; TAKAO, Shinobu; NAGAMATSU, Shin-ichi; NAGASAWA, Kensaku; SEKIZAWA, Oki; KANEKO, Takuma; URUGA, Tomoya; IWASAWA, Yasuhiro
- 1F9-41*** Polymer electrolyte fuel cell reaction based on the carbon dioxide and hydrogen (Japan Aerospace Exploration Agency Institute of Space and Astronautical Science; Nagaoka Univ. of Tech.; Japan Aerospace Exploration Agency Aerospace Research and Development Directorate; Sch. Physical Sci., SOKENDAI) ○SONE, Yoshitsugu; SATO, Kazutaka; YAMASHITA, Yoshinori; SHIRONITA, Sayoko; SHIMA, Asuka; SAKURAI, Makoto; UMEDA, Minoru
- 1F9-43*** Synthesis of highly selective catalyst for realization of carbon-neutral energy cycles using glycolic acid/oxalic acid redox couple (I₂CNER, Kyushu Univ.) ○WATANABE, Ryota; YAMAUCHI, Miho; ABE, Ryu; TAKEGUCHI, Tatsuya

Space Chemistry, Energy Conversion

Chair: HAYASHI, Akitoshi (16 : 30~17 : 20)

- * 16:20-16:30: interval for laptop PC connection.(1F9-46, 1F9-47, 1F9-48, 1F9-49, 1F9-50)
- 1F9-46** Establishment of Ca_{1-x}Bi_xMn_{1-y}Ni_yO_{3-δ} (0≤x, y≤0.1) reaction phase diagrams (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○GIBU, Minoru; YOSHIDA, Shogo; YAMAGUCHI, Yuki; ITO, Shigeru; FUJIMOTO, Kenjiro
- 1F9-47** Chemical effects on negative muon capture process in manganese oxides and iron oxides. (ICU Natural Science Program, Grad. School of Arts and Sciences) ○KURODA, Ayako; NINOMIYA, Kazuhiko; TAMPO, Motonobu; KAWAMUERA, Naritoshi; STRASSER, Patrick; SHIMOMURA, Kouichiro; MIYAKE, Yasuhiro; ITO, Takashi; HIGEMOTO, Wataru; SAKAMOTO, Shinichi; SHINOHARA, Atsushi; SAITO, Tsutomu; KUBO, Kenya
- 1F9-48** Decomposition Behavior of Magnesium Chloride by Carbon Felt Atmospheric Pressure Microwave Plasma (Grad. Sch. Eng., Saitama Inst. of Tech.) ○AKIHIRO, Suzuki; RYO, Matsushima; TATSUHIKO, Yajima
- 1F9-49*** Chemical evolutionary consideration of oxidation-reduction of aminoacetonitrile induced by gas-water discharge (Dept. Nat. Sci. Edu., Naruto Univ. of Edu.) ○MUNEGUMI, Toratane
- 1F9-50** LC-MS analysis of prebiotic polyamino acids (Fukuoka Inst. Tech. Dept. Life, Environ. Materials Sci.) ○MITA, Hajime; NAGASAWA, Eriko

Friday, March 27, AM

Solar Cell

Chair: MAITANI, Masato (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2F9-01, 2F9-02, 2F9-03, 2F9-04, 2F9-05)
- 2F9-01** Study on the dye-sensitized solar cell - improvement of electron conductivity of TiO₂ photoelectrode (I) (Fac. Eng., Tokyo Univ. of Sci.) ○KUBOTA, Daichi; TAKESHITA, Motoki; OZAWA, Hironobu; ARAKAWA, Hironori
- 2F9-02** Study on the dye-sensitized solar cell - improvement of electron conductivity of TiO₂ photoelectrode (II) (Fac. Eng., Tokyo Univ. of Sci.) ○IWATANI, Yuhei; KATANO, Daichi; OZAWA, Hironobu; ARAKAWA, Hironori
- 2F9-03** Study on the light scattering counter electrode of dye-sensitized solar cells (Fac. Eng., Tokyo Univ. of Sci.) ○RYOMA, Motegi; KOUYA, Nozawa; HIRONOBU, Ozawa; HIRONORI, Arakawa

- 2F9-04[#]** Investigation of effective utilization of titanium (Ti) coil based cylindrical dye sensitized solar cells for indoor light application (Grad. Sch. Life Sci. Sys. Eng., KIT) ○KAPIL, Gaurav; WANG, Jin Hui; OGOMI, Yuhei; PANDEY, Shyam S.; MA, Tingli; HAYASE, Shuji
- 2F9-05*** Measurement of electrical impedance spectroscopy analyses(EIS) for low temperature annealed dye-sensitized solar cells(DSSC). (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○ZEN, Shungo; INOUE, Yuki; ONO, Ryo

Chair: MOCHIZUKI, Dai (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2F9-08, 2F9-10, 2F9-11, 2F9-12, 2F9-13)

- 2F9-06*** Dye-sensitized solar cells utilizing coadsorption at different acid sites of titania (Grad. Sch. Eng., Hiroshima Univ.) FUJITA, Takuya; ○IMAE, Ichiro; OYAMA, Yousuke; KOMAGUCHI, Kenji; HARIMA, Yutaka
- 2F9-10** Solar cell performance of dye-sensitized solar cell using new Ru dye TUS-38 (Fac. Eng., Tokyo Univ. of Sci.) ○TOBARI, Yuta; SUGIURA, Takahito; OZAWA, Hironobu; ARAKAWA, Hironori
- 2F9-11** The comparison of solar cell performance of dye-sensitized solar cell using Black-dye-based new dyes (Fac. Eng., Tokyo Univ. of Sci.) ○TSUKASA, Nishimori; KEI, Hukushima; TAKAHITO, Sugiura; HIRONOBU, Ozawa; HIRONORI, Arakawa
- 2F9-12** Effect of electrolyte solution on the solar cell performance of plastic substrate dye-sensitized solar cells (Fac. Eng., Tokyo Univ. of Sci.) ○YOSHIDA, Natsuya; MUROYA, Syougo; OZAWA, Hironobu; ARAKAWA, Hironori
- 2F9-13** Co-sensitized Dye-sensitized Solar Cells using Highly Efficient Zinc phthalocyanine Sensitizers (Grad. Sch. Sci. Technol., Shinshu Univ.) ○IKEUCHI, Takuro; MASAKI, Naruhiko; MORI, Shogo; KIMURA, Mutsumi

Chair: OZAWA, Hironobu (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2F9-15, 2F9-17, 2F9-18, 2F9-19)

- 2F9-15*** Novel phthalocyanine-based D- π -A dyes for Dye-Sensitized Solar Cells (Grad. Sch. Sci. Technol., Shinshu Univ.) ○YAMAMOTO, Satoshi; KIMURA, Mutsumi
- 2F9-17** Fabrication and characterization of dye-sensitized solar cells using a novel conjugated starburst organic dye (Grad. Sch. Sci., Rikkyo Univ.) ○HIROGUCHI, Yochi; INOUE, Shota; KOBAYASHI, Kenji; MITSUI, Masaki
- 2F9-18** Multilayer effect of porphyrin zinc complex with zwitterion in dye sensitized solar cells. (Grad Sch. Eng., KUT) ○SUMI, Katsuhiko; HATTORI, Yuusuke; TAKAGI, Yurika; HOSOGI, Ami
- 2F9-19*** Dye aggregations evaluated by spin-probe ESR technique and the correlation with DSSC performance (Grad. Sch. Eng., Hiroshima Univ.) ○KOMAGUCHI, Kenji; KINOSHITA, Yuusuke; HONDA, Sumihiko; YANO, Masato; IMAE, Ichiro; HARIMA, Yutaka

Friday, March 27, PM

Chair: WAKAMIYA, Atsushi (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2F9-28, 2F9-29, 2F9-31, 2F9-33)

- 2F9-28** Investigation of dye-ion interactions in dye sensitized solar cells with the shift in transient absorption spectra (Grad. Sch. Sci. Eng., Chuo Univ.) ○HOSOKAWA, Ryo; TAYA, Soichiro; KUWAHARA, Shota; SHEN, Qing; TOYODA, Taro; KATAYAMA, Kenji
- 2F9-29*** Investigation of the cause for the low performance in dye-sensitized solar cells with the ruthenium-dye/cobalt redox solar cell system (Fac. Sci. Eng., Chuo Univ.; Grad. Sch. Sci. Eng., The Univ. of Electro-Communications; Nat. Central Univ. Adv. Lab. Accom. Res. Org. PhotoVotaisc) ○MATA, Keita; ○KUWAHARA, Shota; KATAYAMA, Kenji; QING, Shen; TOYODA, Taro; WU, Chun-guey
- 2F9-31[#]** Thermally Stable Dye-Sensitized Solar Cells Based on Liquid Crystalline Electrolytes (Grad. Sch. Eng., The Univ. of Tokyo) ○HÖGBERG, Daniel; SOBERATS REUS, Bartolome; UCHIDA, Satoshi; YOSHIO, Masafumi; KLOO, Lars; SEGAWA, Hiroshi; KATO, Takashi
- 2F9-33[#]** Enhancement of photoconversion efficiency of TCO-less DSCs by enhancing the diffusion of cobalt species through nanomaterials used as an electrolyte absorbing layer. (KIT Life Science and Systems Engineering) ○MOLLA, Md. Zaman; PANDEY, Shyam S.; OGOMI, Yuhei; MA, Tingli; SHUZI, Hayase

Chair: OGOMI, Yuhei (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(2F9-35, 2F9-36, 2F9-37, 2F9-39, 2F9-40)

- 2F9-35** Study on the optimization of electrolyte solution of Black-dye-based dye-sensitized solar cells (Fac. Eng., Tokyo Univ. of Sci.) ○TAKANO, Shiori; URAYAMA, Reiko; OZAWA, Hironobu; ARAKAWA, Hironori
- 2F9-36** Charge transport mechanism of high performance dye-sensitized solar cell with nano clay electrolyte (RCAST, The Univ. of Tokyo) SAKURAI, Daiki; ○UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi
- 2F9-37*** Photoenergy conversion efficiency of dye-sensitized solar cell and electric field effects on emission properties of dye-sensitizers (RIES, Hokkaido

Univ.; Fac. Eng., Gifu Univ.; Chemicea R&D Center) OKOSHI, Kenji; MANSEKI, Kazuhiro; MIURA, Hidetoshi; INOUE, Yukiko; ○OHTA, Nobuhiro

2F9-39 Crystalline facet effect of the scaffold on organic-inorganic hybrid perovskite solar cells (Grad. Sch. Sci., Eng., Tokyo Tech) ○TATEYAMA, Akito; MAITANI, Masato; MOCHIZUKI, Dai; SUZUKI, Eiichi; WADA, Yuji

2F9-40 Crystalline Facet Effect of Meso-porous Oxide on Perovskite Solar Cells (Grad. Sch. Sci., Eng., Tokyo Tech) ○MAITANI, Masato; WATANABE, Aiko; MOCHIZUKI, Dai; SUZUKI, Eiichi; WADA, Yuji

Chair: UCHIDA, Satoshi (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2F9-42, 2F9-43, 2F9-45, 2F9-46, 2F9-47)

- 2F9-42** Efficient Solar Cells Based on Surface Treatment of Perovskite Layer (ICR, Kyoto Univ.; PRESTO, JST) ○MARUYAMA, Naoki; NISHIMURA, Hidetaka; ENDO, Masaru; WAKAMIYA, Atsushi; MURATA, Yasujiro
- 2F9-43[#]** Development of Novel Hole-Transporting Materials toward Efficient Perovskite-Based Solar Cells (ICR, Kyoto Univ.; PRESTO, JST; Boston College) ○NISHIMURA, Hidetaka; MARUYAMA, Naoki; ENDO, Masaru; WAKAMIYA, Atsushi; SCOTT, Lawrence T.; MUATA, Yasujiro
- 2F9-45** Analysis of Perovskite / substrate interface by QCM-D (Grad. Sch. Life Sci. Sys. Eng., KIT) ○HIROTANI, Daisuke; OGOMI, Yuhei; FUJIKAWA, Naotaka; PANDEY, Shyam; MA, Tingli; HAYASE, Shuji
- 2F9-46** Perovskite solar cells using a CsPbI₃ (Grad. Sch. Life Sci. Sys. Eng., KIT) ○NISHINAKA, Koji; MIYATA, Youhei; RIPOLES, Teresa; OGOMI, Yuhei; SHEN, Qing; YOSHINO, Kenji; PANDEY, Shyam; MA, Teirei; TOYODA, Taro; HAYASE, Shuji
- 2F9-47[#]** Controlled crystal growth of lead halide perovskites by adding different types of chloride precursors (KIT) ○VIGNESHWARAN, Murugan; NAKAZATO, Ryuji; OGOMI, Yuhei; PANDEY, Shyam; TINGLI, Ma; HAYASE, Shuji

Chair: KOMAGUCHI, Kenji (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(2F9-49, 2F9-50, 2F9-51, 2F9-52, 2F9-54)

- 2F9-49** Study on flexible perovskite solar cells (Grad. Sch. Life Sci. Sys. Eng., KIT) CHUNFENG, Lan; ○MA, Tingli
- 2F9-50** Thin film plasmonic solar cell fabricated by pulsed laser deposition (RIES, Hokkaido Univ.) ○NAKAMURA, Keisuke; KATASE, Takayoshi; OSHIKIRI, Tomoya; UENO, Kosei; OHTA, Hiromichi; MISAWA, Hiroaki
- 2F9-51** Construction of plasmon-induced photoelectric conversion system using gallium nitride substrate (RIES, Hokkaido Univ.) ○MASUNAGA, Ririka; OSHIKIRI, Tomoya; UENO, Kosei; MISAWA, Hiroaki
- 2F9-52*** PbS-Quantum-Dot/ZnO Nanowire Solar Cells with High Efficiency in the Near-Infrared Region and Long-term Stability under Light Soaking (RCAST, The Univ. of Tokyo) ○WANG, Haibin; KUBO, Takaya; NAKAZAKI, Jotaro; SEGAWA, Hiroshi
- 2F9-54** Development of Organic Solar Cells Based on Low-Bandgap pi-Conjugated Molecules (Grad. Sch. Eng., Kyushu Univ.; IFRC, Kyushu Univ.; PRESTO, JST) ○HIDAKA, Yu; SHIN, Woong; ADACHI, Chihaya; YASUDA, Takuma

Saturday, March 28, AM

Solar Cell

Chair: UENO, Kosei (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3F9-01, 3F9-02, 3F9-03, 3F9-04, 3F9-05, 3F9-06)

- 3F9-01** Re-examination of role of singlet oxygen in photo-induced degradation of poly(3-alkylthiophene)s (Grad. Fac. Eng., Hokkaido Univ.) OHTA, Hiroki; ○KOIZUMI, Hitoshi
- 3F9-02** Fabrication and evaluation of inverted-type organic thin-film solar cells using hole-transport layer incorporating gold and silver nanoparticles (Sch. Eng., The Univ. of Shiga Pref.) ○YAGI, Yutaro; AKIYAMA, Tsuyoshi; MATSUMOTO, Taisuke; OKU, Takeo
- 3F9-03** Synthesis and photovoltaic application of solubilized fullerene-diamine adducts (Sch. Eng., The Univ. of Shiga Pref.) ○IZUMOTO, Daisuke; AKIYAMA, Tsuyoshi; BANYA, Shoto; OKU, Takeo
- 3F9-04** Fabrication of electrodeposited hierarchical porphyrin-polythiophene composited films and their photoelectrochemical properties (Sch. Eng., The Univ. of Shiga Pref.) ○KUMAGAWA, Yu; AKIYAMA, Tsuyoshi; BANYA, Shoto; SUZUKI, Atsushi; OKU, Takeo
- 3F9-05** Development of Cyclopentene or Cyclohexene-fused type Fullerene Derivative as an Acceptor Partner with P3HT of OPV Devices (Fac. Eng., Tottori Univ.) ○NAKAMURA, Naoshi; ITOH, Toshiyuki; NOKAMI, Toshiki; HAYASE, Shuichi; SUGAHARA, Kiyotaka; YAMANE, Yu
- 3F9-06** Soluble photoprecursors of p-type organic semiconductors having the diketopyrrolopyrrole unit: Synthesis, properties, and application in solution-processed organic photovoltaics (Grad. Sch. Mat. Sci., NAIST) ○UCHINAGA, Kensuke; KAYAGUCHI, Yuji; TAKAHIRA, Katsuya; SUZUKI, Mitsuharu; NAKAYAMA, Ken-ichi; YAMADA, Hiroko

Photochemistry

Chair: FUKU, Kojiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3F9-08, 3F9-09, 3F9-10, 3F9-12, 3F9-13)
- 3F9-08** Visualization of Active Sites at Plasmon-Induced Photoenergy Conversion System (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.)
○TODA, Takahiro; SUZUKI, Kentaro; YASUDA, Satoshi; MURAKOSHI, Kei
- 3F9-09** Photoelectrochemical property of nano structural titanium dioxide prepared using tetrahydroxytitanium (IV) (The Univ. of Tokushima; The Univ. of Tokushima Radioisotope Research Center) ○NIIZUMA, Shoichi; MIYOSHI, Hirokazu; KURASHINA, Masashi; KANEZAKI, Eiji
- 3F9-10*** UV irradiation effects on the plasmon-induced charge separation at Au nanoparticles loaded TiO₂ photoelectrode (RIES, Hokkaido Univ.)
○SHI, Xu; OSHIKIRI, Tomoya; UENO, Kosei; MISAWA, Hiroaki
- 3F9-12** Increase in hydrogen production with an increase in reaction surface area of metal doped CeO₂ in two-step water splitting process with concentrated solar thermal energy (Fac. Eng., Univ. of Miyazaki) ○KANEKO, Hiroshi; MIZUSE, Atsushi; WANG, Mingyan; HEYA, Manabu; KUSABA, Mitsuhiro
- 3F9-13** Photoelectrochemical cells for water electrolysis with circulation of redox couples of metal complexes in non-aqueous solution between CdS photoanode and counter electrode. (Grad. Sch. Eng., The Univ. of Tokyo)
○KAGESHIMA, Yosuke; KUMAGAI, Hiromu; HISATOMI, Takashi; MINEGISHI, Tsutomu; KUBOTA, Jun; DOMEN, Kazunari

Hydrogen Production

Chair: MINEGISHI, Tsutomu (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3F9-15, 3F9-17, 3F9-18, 3F9-19)
- 3F9-15*** Construction of the Porous Glass Device Enabling the Light-induced hydrogen production in an Oxygenic Atmosphere (Grad Sch. Eng., Nagoya Inst. of Tech.) ○NOJI, Tomoyasu; KONDO, Masaharu; JIN, Tetsuro; NANGO, Mamoru; DEWA, Takehisa
- 3F9-17** Design of photoelectrode system for efficient production of hydrogen and high-value-added oxidation reagents (ETRI, AIST) ○FUKU, Kojiro; MISEKI, Yugo; FUNAKI, Takashi; SAYAMA, Kazuhiro
- 3F9-18** Photoelectrochemical Zero Bias Hydrogen Generation with a Novel Three-Compartment Cell for Decreasing Theoretical and Total Water Electrolysis Voltage (8) (National Institute of Technology, Fukushima College, Department of Chemistry) KATO, Ryoko; ENDO, Haruka; SATO, Masataka; KAMO, Yoichi; ○SAKAMAKI, Kenji
- 3F9-19*** Formic acid dehydrogenation for high-pressure hydrogen production and purification (CCP, AIST; CREST, JST) ○MASAYUKI, Iguchi; MANAKA, Yuichi; HIMEDA, Yuichiro; KAWANAMI, Hajime

Saturday, March 28, PM

Chair: MISEKI, Yugo (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3F9-28, 3F9-30, 3F9-32)
- 3F9-28*** Co-catalytic effect of transition metal on plasmon-induced ammonia synthesis (RIES, Hokkaido Univ.) ○OSHIKIRI, Tomoya; UENO, Kosei; MISAWA, Hiroaki
- 3F9-30*** Theoretical Study of the S3 state of the Mn₄Ca-cluster in Photosystem II: A compact chair form consisting of the short Mn-Mn pairs (RIKEN RINC) ○HATAKEYAMA, Makoto; OGATA, Koji; YOKOJIMA, Satoshi; FUJII, Katsushi; NAKAMURA, Shinichiro
- 3F9-32*** Monitoring of plasmonic photochemical reaction nitrobenzenethiol to aminobenzenethiol by surface-enhanced Raman scattering (Fac. Eng., Kagawa Univ.) ○YAMAMOTO, Yoko S.; KAYANO, Yuya; ITOH, Tamitake; NAKANISHI, Shunsuke

Chair: KAMIYA, Kazuhide (14 : 40~15 : 30)

- * 14:30-14:40: interval for laptop PC connection.(3F9-35, 3F9-37, 3F9-38, 3F9-39)
- 3F9-35*** Hydrogen generation through catalytic dehydrogenation of formic acid (ETRI, AIST; CREST, JST) ○MANAKA, Yuichi; XU, Shaoran; SUNA, Yuki; ONISHI, Naoya; MUCKERMAN, James T.; FUJITA, Etsuko; KAWANAMI, Hajime; HIMEDA, Yuichiro
- 3F9-37** Effect of adsorption of aluminum hydride and zinc nitrate on hydrogen storage property of aluminum-terephthalic acid frameworks (Grad. Sch. Eng., Oita Univ.) ○YAMAMOTO, Hiroki; KINUMOTO, Taro; TSUMURA, Tomoki; TOYODA, Masahiro
- 3F9-38** Effect of lithium naphthalenide adsorption on the structure and the hydrogen adsorption/desorption property of zinc-terephthalic acid framework (Grad. Sch. Eng., Oita Univ.) ○TSUNOMORI, Kenichi; KINUMOTO, Taro; TSUMURA, Tomoki; TOYODA, Masahiro
- 3F9-39** Synthesis of porous carbon nitride/carbon composite and its hydrogen adsorption/desorption behavior (Grad. Sch. Eng., Oita Univ.)
○HAYAKAWA, Naoki; KINUMOTO, Taro; TSUMURA, Tomoki; TOYODA, Masahiro

Room G1

Bldg.12 1231

Organic Chemistry -Reaction and Synthesis-
Heteroatom Compounds

Thursday, March 26, AM

Chair: MURAOKA, Hiroki (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1G1-01, 1G1-02, 1G1-03, 1G1-04, 1G1-05, 1G1-06)
- 1G1-01** Reaction of chalcogenophosphoric chlorides having a binaphthyl group with Grignard reactants (Fac. Eng., Gifu Univ.) ○HIRAI, Yuki; MAEKAWA, Yuki; MURAI, Toshiaki
- 1G1-02** Lewis Acid Catalyzed Reactions of Allyl Mesityl Selenide with Acetals (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) ○YOSHIZAWA, Naohiro; HIRABAYASHI, Kazunori; SHIMIZU, Toshio
- 1G1-03** Synthesis and Reaction of Zinc Complexes with Selenium Compounds Having Imidazo[1, 5-a]pyridine Skeleton (Coll. Eng., Chubu Univ.)
○NAKAGAKI, Ryosuke; NIYOMURA, Osamu
- 1G1-04** 1,2-Migration of Silyl Group by Oxidation of Allylic Selenide Derivatives Having a Silylated Alkene Moiety (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○IKEHATA, Shuhei; SHINTAKU, Kazuki; MAEDA, Hajime; SEGI, Masahito
- 1G1-05** Synthesis and Structure of Selenoxide Having Imidazo[1,5-a]pyridyl Group (Coll. Eng., Chubu Univ.) ○ISHIDA, Takao; TANAHASHI, Tomohiro; NIYOMURA, Osamu
- 1G1-06** Synthesis and Reaction of Pyridinium Ylide Derivatives Substituted with a Selenocarbonyl Group (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○NISHIKAWA, Tomoya; MAEDA, Hajime; SEGI, Masahito

Chair: NAGAHORA, Noriyoshi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1G1-08, 1G1-09, 1G1-10, 1G1-11, 1G1-12, 1G1-13)
- 1G1-08** Rapid synthesis of perfluoroalkylated phosphines via photoinduced reaction using TMDPO (Grad. Sch. Eng., Osaka Pref. Univ.) ○SATO, Yuki; KAWAGUCHI, Shin-ichi; NOMOTO, Akihiro; OGAWA, Akiya
- 1G1-09** Asymmetric Synthesis of Phosphite Triesters Using Chiral Bronsted Acids (Fac. Eng., Gifu Univ.) ○OSHIMA, Takahiro; OKA, Natsuhisa; ANDO, Kaori
- 1G1-10** Convenient Synthesis and Synthetic Application of 1-(Trimethylsilyl)- and 1-(Trimethylstannyl)vinylphosphonates (Fac. Eng., Kinki Univ.)
OKADA, Yoshiharu; ○NAKAMOTO, Masato; URUSHIHARA, Riho; NOMURA, Masato
- 1G1-11** Development of Catalytic Mitsunobu Reaction with Iron and Air (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○HIROSE, Daisuke; HASHIMOTO, Takuma; TANIGUCHI, Tsuyoshi
- 1G1-12** Effects of terminal substituents on the optical properties of 2,5-dithienylphospholes (Grad. Sch. Sci. and Technol., Niigata Univ.; Fac. Sci. Eng., Doshisha Univ.; Fac. Sci., Niigata Univ.) ○KOYANAGI, Yoshinari; KIMURA, Yoshifumi; MATANO, Yoshihiro
- 1G1-13** An Isolable Neutral Dicoordinate Antimony-centered Radical (Grad. Sch. Sci., Tohoku Univ.) ○MIURA, Yuki; ISHIDA, Shintaro; IWAMOTO, Takeaki

Chair: SHOJI, Yoshiaki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1G1-15, 1G1-16, 1G1-17, 1G1-18, 1G1-19, 1G1-20)
- 1G1-15** Synthesis of Bulky Aromatic Compounds Bearing 9-Triptycyl Groups (Rikkyo Univ. College of Science) ○YUKIMOTO, Mariko; HARA, Nastuko; IRIE, Tatsuya; SUZUKI, Fumiaki; NODA, Satoshi; MINOURA, Mao
- 1G1-16** Reactivity of Eneslufenic Acid Bearing 9-Triptycyl Group for Protection Group (Coll. Sci., Rikkyo Univ.) ○YUKIMOTO, Mariko; MINOURA, Mao
- 1G1-17** Reaction of Thioketone having alpha-Hydrogen with Diazo Compounds (Rikkyo Univ. College of Science, Department of Chemistry)
○HAMAZAKI, Ayako; YUKIMOTO, Mariko; MINOURA, Mao
- 1G1-18** Synthesis and Reaction of a Sulfonyl Chloride Bearing a Tris (dimethylphenylsilyl)methyl group (Sch. Sci. Eng., Toyo Univ.)
○SUGAMATA, Koh; TANAKA, Yuka; ISHII, Shigeru
- 1G1-19** Study on the Reactivity of an *S*-Nitrosothiol and Related Species by Taking Advantage of a Molecular Cavity Based on a Pentiptycene Framework (Grad. Sch. Sci., Eng., Tokyo Tech) ○MORITA, Takahiro; SASE, Shohei; TAKAHASHI, Hirona; KAWAI, Akio; GOTO, Kei
- 1G1-20** Synthesis and Property of Soluble Hexathiopentacene Derivative (Okayama Univ. Graduate School of Environmental and Life Sciences)
○SHIRAI, Hitoshi; TAJIMA, Tomoyuki; KUBO, Kentaro; NISHIHAMA, Takuya; TAKAGUCHI, Yutaka

Thursday, March 26, PM

Chair: SASE, Shohei (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1G1-28, 1G1-29, 1G1-30, 1G1-31, 1G1-32, 1G1-33)
- 1G1-28** Generation of carbanions adjacent to sulfur atom in benzyl sulfanes and reaction with electrophiles (Fac. Eng., Gifu Univ.) ○MUTOH, Natsumi; NOZAWA, Ryo; MURAI, Toshiaki
- 1G1-29** Aluminum Complexes Bearing a [OEO]-type Ligand (E = S, Se): Synthesis, Structures and Ring-Opening Polymerization of ϵ -caprolactone (Fac. Sci., Saitama Univ.; Grad. Sch. Sci., Eng., Saitama Univ.) ○TOYODA, Miki; NAKATA, Norio; ISHII, Akihiko
- 1G1-30** Synthesis of hypervalent sulfur anion bearing the tridentate ligand of Martin and their application (Fac. Sci., Hiroshima Univ.; Toyota Central R&D Labs., Inc.) ○KUKITA, Tomomi; IMADA, Yasuyuki; NAKANO, Hideyuki; YAMAMOTO, Yohsuke
- 1G1-31** Synthesis and characterization of aryl-functionalized X-shaped oligothiophene derivatives with a pyrrole core (Fac. Eng., Iwate Univ.) MURAOKA, Hiroki; ○KUBOTA, Shunpei; OGAWA, Satoshi
- 1G1-32** Synthesis and characterization of tetra(5-aryl-2-thienyl)thiophene 1-oxide and 1,1-dioxide derivatives (Iwate Univ.) MURAOKA, Hiroki; ○ENDO, Takamasa; OGAWA, Satoshi
- 1G1-33** Synthesis and Properties of Donor-acceptor Molecules Based on a Combination of Various Benzodithiophene Derivatives and Analogues (Fac. Sys. Eng., Wakayama Univ.) ○YUZAKI, Yuzuka; OSUGA, Hideji; TSUJI, Takuya; SAKAMOTO, Hidefumi

Chair: NAKAHODO, Tsukasa (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1G1-35, 1G1-36, 1G1-37, 1G1-38, 1G1-39, 1G1-40)
- 1G1-35** Removal of Xylylene Groups from Tetrakis(o-xylylenedithio)phthalocyanines with Toluene and Aluminum Chloride and construction of Dithiophosphole Rings (#Organization for Research Promotion, Iwate Univ.) ○KIMURA, Takeshi
- 1G1-36** Synthesis of 15 Group Element-Containing Benzenes via Hydroalumination of 1,5-Bis(silyl)-1,4-diyne (Grad. Sch. Sci. Eng., Chuo Univ.; Fac. Sci. Eng., Chuo Univ.) ○ISHII, Takuya; NAKAMURA, Taichi; SUZUKI, Katsunori; YAMASHITA, Makoto
- 1G1-37** Synthesis of phosphinines bearing halogen and sulfonate substituents (Fac. Sci., Fukuoka Univ.) NAGAHORA, Noriyoshi; ○TOKUMARU, Hiroshi; SHIOJI, Kosei; OKUMA, Kentaro
- 1G1-38** Synthesis of 9-Arsafluorene via Cyclo-origoarsine (KIT) ○KATO, Takuji; NAKA, Kensuke
- 1G1-39** Synthesis of 9-Arsafluorene-Pt(II) Complexes and Their Solid State Luminescence (KIT) ○TANAKA, Susumu; KATO, Takuji; WATASE, Seiji; MATSUKAWA, Kimihoro; NAKA, Kensuke
- 1G1-40** Synthesis of heavier group 15 element compounds having ppy ligands (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) ○SAKABE, Masato; OOIZUMI, Akihisa; FUJITA, Wataru; NOMURA, Kotohiro; SATO, Soichi

Chair: YAMASHITA, Makoto (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1G1-42, 1G1-43, 1G1-44, 1G1-46)
- 1G1-42** Wittig Reaction of Phosphonium Ylides Bearing Phosphatibatriptycene Skeleton and Observation of Intermediates (Sch. Sci., Kitasato Univ.) OHTSUKI, Takemaru; MURAKAMI, Rikiya; SUGIMOTO, Jun; ○UCHIYAMA, Yosuke
- 1G1-43** Synthesis and reactions of sterically protected diarylphosphine derivatives bearing 4-bromoaryl groups (Grad. Sch. Sci., Tohoku Univ.; Grad. Sch. Sci., Tohoku Univ.) ○SASAKI, Shigeru
- 1G1-44**** Synthesis, Structure and Reactivities of Pentacoordinated Phosphorus-Tetracoordinated Boron Bonded Compounds (Grad. Sch. Sci., The Univ. of Tokyo) ○O'BRIEN, Nathan; HAVARE, Nizam; SHIBATA, Yusuke; MAEDA, Hiroaki; NISHIHARA, Hiroshi; KANO, Naokazu
- 1G1-46**** Synthesis and coordination behavior of unsymmetrical cyclic arsenic compounds (KIT) ADACHI, Hiroki; ○IMOTO, Hiroaki; NAKA, Kensuke

Friday, March 27, AM

Chair: ISHIDA, Shintaro (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2G1-01, 2G1-02, 2G1-03, 2G1-04, 2G1-05, 2G1-06)
- 2G1-01** Synthesis and Structures of 1-Aminoaluminum Derivatives (ICR, Kyoto Univ.) ○WASANO, Tatsuya; AGOU, Tomohiro; SASAMORI, Takahiro; TOKITOH, Norihiro
- 2G1-02** Structural analyses of Dibenzogallepins by Altering Coordination Numbers at Gallium Atoms (Grad. Sch. Eng., Kyoto Univ.) ○TAKAMINE, Hirofumi; MATSUMOTO, Takuya; TANAKA, Kazuo; CHUJO, Yoshiki
- 2G1-03** Dihydrodiborane(4)-Pyridine Adducts (Fac. Sci. Eng., Kinki Univ.) ○KANEDA, Shohei; SHOJI, Yoshiaki; HASHIZUME, Daisuke; TAMAO, Kohei; FUENO, Hiroyuki; TANAKA, Kazuyoshi; MATSUO, Tsukasa
- 2G1-04** Reaction of Unsymmetrical Diborane(4) Compound pinB-BMe₂ and

the Origin of Its High Electron Affinity (Grad. Sch. Sci. Eng., Chuo Univ.)

○ASAKAWA, Hiroki; YAMASHITA, Makoto; FURUKAWA, Ko; LIN, Zhenyang; LEE, Ka Ho

- 2G1-05** Synthesis of Boron- and Nitrogen-Containing Conjugated Systems by Reaction of Bis(silyl)pyrazines with Haloborane (Grad. Sch. Sci. Eng., Chuo Univ.; Grad. Sch. Eng. Sci., Osaka Univ.; Fac. Sci. Eng., Chuo Univ.) ○NOGUCHI, Mao; YURINO, Taiga; TSURUGI, Hayato; MASHIMA, Kazushi; SUZUKI, Katsunori; YAMASHITA, Makoto
- 2G1-06** Reactions of boryl- and amino-substituted cyclobutadiene (Grad. Sch. Sci. Eng., Chuo Univ.; Fac. Sci. Eng., Chuo Univ.) ○ONUMA, Kaoru; SUZUKI, Katsunori; YAMASHITA, Makoto

Chair: AGOU, Tomohiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2G1-08, 2G1-09, 2G1-10, 2G1-11, 2G1-12, 2G1-13)
- 2G1-08** Reaction of P^{III}→C⁰←S^{IV} Carbene with Au^I (Coll. Industrial Tech., Nihon Univ.) ○MOROSAKI, Tomohito; FUJII, Takayoshi
- 2G1-09** Synthesis and Reactivities of S^{II}→C⁰←S^{II} Carbene Exhibiting Four-Electron Donor Ability (Coll. Industrial Tech., Nihon Univ.) ○IJJIMA, Ryo; MOROSAKI, Tomohito; FUJII, Takayoshi
- 2G1-10** Scission of Carbon-Chalcogen Double Bonds Caused by Borinium Ions (Chem. Res. Lab., Tokyo Tech) ○TANAKA, Naoki; SHOJI, Yoshiaki; FUKUSHIMA, Takanori
- 2G1-11** Reactivity of Non-solvated Boryl Anion (Fac. Sci. Eng., Chuo Univ.; Grad. Sch. Sci. Eng., Chuo Univ.; Grad. Sch. Eng., The Univ. of Tokyo; Grad. Sch. Sci., Tohoku Univ.) ○OHSATO, Takuto; OKUNO, Yuri; ISHIDA, Shintaro; IWAMOTO, Takeaki; YAMASHITA, Makoto; NOZAKI, Kyoko
- 2G1-12** Control of Regioselectivity in Direct Diboration of Alkynes in the Absence of Metal Catalyst (Grad. Sch. Sci. Eng., Chuo Univ.; Fac. Sci. Eng., Chuo Univ.) ○KOJIMA, Chiemi; YAMASHITA, Makoto
- 2G1-13** The effect of counter cation in bora-Brook rearrangement (Grad. Sch. Sci. Eng., Chuo Univ.; Fac. Sci. Eng., Chuo Univ.; Grad. Sch. Eng., The Univ. of Tokyo) ○KISU, Haruki; YAMASHITA, Makoto; ITO, Fumihoro; SAKAINO, Hiroto; NOZAKI, Kyoko

Chair: UCHIYAMA, Yosuke (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2G1-15, 2G1-16, 2G1-17, 2G1-18, 2G1-19, 2G1-20)
- 2G1-15** Discovery of imidazopyridines as new hypoxia inducible factor (HIF)-1 α inhibitors. (Chem. Res. Lab., Tokyo Tech) ○OHUCHI, Toshiaki; MINEGISHI, Hidemitsu; NAKAMURA, Hiroyuki
- 2G1-16** Synthetic study of calixpyrrole from pyrrole-2,5-dicarboxylates (Fac. Eng., Kogakuin Univ.) ○YASUI, Eiko; OHNUKI, Satoshi; SHIMADA, Yuta; KONDO, Takumi; NAGUMO, Shinji
- 2G1-17** Highly Regioselective Aminohydroxylation of Olefins with New Electrophilic Aminative Reagent by Photoredox Catalysis (Chem. Res. Lab., Tokyo Tech) ○MIYAZAWA, Kazuki; KOIKE, Takashi; AKITA, Munetaka
- 2G1-18** Structurally diverse synthesis of heterocyclic Scaffolds via benzophenone analog (Yokohama Coll. of Pharmacy) WANIBUCHI, Kiyofumi; ○OHKAWA, Eri; MASUI, Hisashi; TAKAHASHI, Takashi
- 2G1-19** Development of novel synthetic routes for azabicyclic compounds based on intermolecular cyclization (Yokohama Coll. of Pharmacy) MASUI, Hisashi; ○NAKANO, Hiroki; TAKAHASHI, Takashi
- 2G1-20** Synthesis of optically active silicon compounds via asymmetric arylation of secondary silanes (Grad. Sch. Sci., The Univ. of Tokyo) ○UEKI, Shuhei; KURIHARA, Yu; ISHII, Ryoma; SHIMADA, Masaki; YAMANOI, Yoshinori; NISHIHARA, Hiroshi

Friday, March 27, PM

Chair: SASAMORI, Takahiro (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2G1-28, 2G1-30, 2G1-32)
- 2G1-28**** Synthesis and Property of Chiral Porphyrin Polymer Nanotubes (Kinki Univ.) ○TAKEUCHI, Noritaka; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 2G1-30**** Introduction of an Asymmetric Carbon Atoms in Selenophosphoric Acid Esters Having a Binaphthyl Group by Deprotonation-S_N2 Reaction (Fac. Eng., Gifu Univ.) ○MAEKAWA, Yuuki; MURAI, Toshiaki
- 2G1-32**** Synthesis and Reactivities of a Cysteine Sulfenic Acid by Taking Advantage of a Large Molecular Cavity (Grad. Sch. Sci., Eng., Tokyo Tech) ○SANO, Tsukasa; SASE, Shohei; GOTO, Kei

Chair: OSUGA, Hideji (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2G1-35, 2G1-37, 2G1-39)
- 2G1-35**** Complexation behaviors of crown ethers containing chiral phosphorus atoms (Grad. Sch. Eng., Kyoto Univ.) ○KATO, Ryosuke; MORISAKI, Yasuhiro; CHUJO, Yoshiki
- 2G1-37*** Complexation of a triphospha[3]radialene as a ligand toward a transition metal (ICR, Kyoto Univ.) ○HIRANO, Koki; MIYAKE, Hideaki; SASAMORI, Takahiro; TOKITOH, Norihiro
- 2G1-39*** HF Capture by the Open-Shell P-Heterocyclic structure (Grad. Sch. Sci., Eng., Tokyo Tech) ○UETA, Yasuhiro; MIKAMI, Koichi; ITO, Shigekazu

Chair: KOBAYASHI, Junji (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2G1-42, 2G1-44, 2G1-46)

2G1-42* Synthesis, Structure, and Reactivity of Diboryldiphosphene (Grad. Sch. Sci. Eng., Chuo Univ.; Fac. Sci. Eng., Chuo Univ.) ○ASAMI, Shunsuke; OKAMOTO, Masafumi; SUZUKI, Katsunori; YAMASHITA, Makoto**2G1-44*** Hydrogenation of Aldehydes with the Hantzsch Ester in the presence of Triarylborane Catalysts (Sch. Physical Sci., SOKENDAI; IMS) ○TSUJI, Hiroaki; HAMASAKA, Go; UOZUMI, Yasuhiro**2G1-46*** Reactions of a Dialumene-Benzene Adduct Bearing a Bulky Aryl Substituent with Lewis Bases (ICR, Kyoto Univ.) ○NAGATA, Koichi; AGOU, Tomohiro; SASAMORI, Takahiro; TOKITOH, Norihiro

Saturday, March 28, AM

Chair: FUJII, Takayoshi (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3G1-01, 3G1-02, 3G1-03, 3G1-04, 3G1-05, 3G1-06)

3G1-01 Synthesis and Properties of Polytellurophene Nanotubes (Kinki Univ.) ○SAITO, Yudai; NAKAHODO, Tsukasa; FUJIHARA, Hisashi**3G1-02** Surface Modification of Polymer Nanotubes by Click Reaction (Kinki Univ.) ○YAMAMOTO, Keiichi; NAKAHODO, Tsukasa; FUJIHARA, Hisashi**3G1-03** Syntheses and Light Absorption Characters of Compounds bearing Ferrocenylcarbonyl Groups (Grad. Sch. Sci. Eng., Yamaguchi Univ.) ○MIYAKE, Hideaki; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka**3G1-04[#]** Synthesis and Reactions of a Primary-alkyl-substituted Sulfonate Anion Bearing a Cavity-shaped Molecular Framework (Grad. Sch. Sci., Eng., Tokyo Tech) ○ISHIHARA, Michihiro; SASE, Shohei; GOTO, Kei**3G1-05** Chiral Recognition in the Nanospace of Redox-active Chiral Polymer Nanotubes (Kinki Univ.) ○KAMEYAMA, Motoki; NAKAHODO, Tsukasa; FUJIHARA, Hisashi**3G1-06** Development of Catalysis in Supercritical Carbon Dioxide (Kinki Univ.) ○OSUGI, Kenta; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

Chair: MAEDA, Hajime (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3G1-08, 3G1-09, 3G1-10, 3G1-11, 3G1-12, 3G1-13)

3G1-08 Asymmetric Synthesis of Chiral α -Thio- β -aminonitriles Using Pincer-type Palladium Catalysts with Chiral Bis(imidazoline)s Ligands (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○KOBAYASHI, Natsumi; KONDO, Masaru; NAKAMURA, Shuichi**3G1-09** Synthesis and Transannular Interaction of Cyclic Diaminoselenide Bearing Pyrene (Fac. Sci. Eng., Kinki Univ.) ○OKAZAKI, Kenta; NAKAHODO, Tsukasa; FUJIHARA, Hisashi**3G1-10** Synthesis of cyclic selenides having polar functional groups and assessment of their antioxidant activities (Sch. Sci., Tokai Univ.) TAKAHIRA, Motoi; KURODA, Nozomi; ARAI, Kenta; ○IWAOKA, Michio**3G1-11** Epoxidation of olefins using tellurinic anhydride derivatives (Tokai Univ. Liberal Arts Education Center, Shimizu Campus) ○OBA, Makoto; KAWAJI, Shoi**3G1-12** Ligand Exchange Reaction of Hypervalent (4-FC₆H₄)₂Sb and ToI₄Te (Rikkyo Univ. Department of Chemistry, College of Science; RISE, Waseda Univ.) ○ICHINOSE, Sho; AKIBA, Kin-ya; MINOURA, Mao**3G1-13** Synthesis and Reaction of Hypervalent Organotellurium Compounds bearing Dimethylaminophenyl Ligands. (Coll. Sci., Rikkyo Univ.) ○HAYAKAWA, Kotona; KOBAYASHI, Sho; MINOURA, Mao

Chair: ITO, Shigekazu (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3G1-15)

3G1-15 CSJ Award for Creative Works Synthesis of Organofluorine Compounds based on Reagent Strategy (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○SHIBATA, Norio

Saturday, March 28, PM

Chair: HIRABAYASHI, Kazunori (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3G1-28, 3G1-29, 3G1-30, 3G1-31, 3G1-32, 3G1-33)

3G1-28 Asymmetric Synthesis of α -Hydroxyacetals via the Stereospecific C-F Bond Cleavage (Toyohashi Univ. of Tech.) ○KITA HARA, Kazumasa; OKIMI, Takuya; SHIBATANI, Kazutaka; IWASA, Seiji**3G1-29** Williamson Ether Synthesis with Phenols at a Chiral Tertiary Carbon (Toyohashi Univ. of Tech.) ○KOTOZAKI, Manato; SASAKI, Nozomi; SHIBATANI, Kazutaka; IWASA, Seiji**3G1-30** Regio-, and stereoselective iodobromination of ynamides for synthesis of (E)-1-bromo-2-iodoenamides. (Fac. Sci. Tech., Ryukoku Univ.) ○YAUCHI, Yuta; IDE, Masataka; IWASAWA, Tetsuo**3G1-31** Regio- and stereoselective hydrohalogenation of ynamide components in 1,3-butadiynes with *in situ* generated HX (Grad. Sch. Sci. Tech., Ryukoku Univ.) ○IDE, Masataka; IWASAWA, Tetsuo**3G1-32** Synthesis of Hypervalent Iodine Reagent Containing Phthalimide and Its Application to Imidation Reaction (Grad. Sch. Eng., Osaka Univ.) ○KOSAKA, Tomoki; KIYOKAWA, Kensuke; MINAKATA, Satoshi**3G1-33** A New Approach for CH Activation: Direct Metal-free α -CH Amination of Ethers with PhI(OAc)₂-sulfonamide (Grad. Sch. Pharm., The Univ. of Tokyo) ○YAMASHITA, Junpei; MIYAMOTO, Kazunori; UCHIYAMA, Masanobu

Room G2

Bldg.12 1232

Organic Chemistry -Reaction and Synthesis-
Aromatic Compounds

Thursday, March 26, AM

Chair: NISHIDA, Jun-ichi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1G2-08, 1G2-09, 1G2-11, 1G2-12, 1G2-13)

1G2-08 Synthesis and Optical Properties of Non-Planar Polycyclic Aromatic Hydrocarbon Prepared by Cyclization Reaction between Biphenyl Derivatives and Dienes (Grad. Sch. Sci. Eng., Chuo Univ.) ○OISHI, Anna; TOKORO, Yuichiro; FUKUZAWA, Shin-ichi**1G2-09*** Chirality Amplification and Inversion based on Host-Guest Complexation of Crown Ethers Bearing the Dynamic Thiahelix Structure with Chiral Amine Salts (Grad. Sch. Sci., Eng., Tokyo Tech) ○NAMBU, Yoko; TAKATA, Toshikazu**1G2-11** Synthesis of [16]helicene by one-step photocyclization of olefins consisting of benzene and naphthalene units (Grad. Sch. Eng., The Univ. of Tokyo; Fac. Sci., Yamagata Univ.) ○MORI, Kazuyuki; MURASE, Takashi; FUJITA, Makoto**1G2-12** Azobenzene-incorporated BINOLs as stimuli-responsive catalysts (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○AKAURA, Syouta; TUTUI, Yuki; UCHIYAMA, Masanobu; TAKAISHI, Kazuto; IMAHORI, Tatsushi**1G2-13** Development of azobenzene diamine-based stimuli-responsive catalysts (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○MURATA, Daisuke; SUENAGA, Akari; KURIHARA, Seiji; IMAHORI, Tatsushi

Chair: KANNO, Ken-ichiro (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(1G2-15, 1G2-16, 1G2-17, 1G2-18, 1G2-19)

1G2-15 Synthesis of phenacene-type aromatic compounds using AuCl(I) catalyst (Grad. Sch. Sci., Eng., Ehime Univ.) ○SATO, Shiori; MORI, Shigeki; OKUJIMA, Tetsuo; UNO, Hidemitsu; NAKAE, Takahiro**1G2-16** Synthesis and Physical Properties of Polycyclic Aromatic Hydrocarbons Having an Azulene Backbone (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○IBA, Shinji; MURAI, Masahito; TAKAI, Kazuhiko**1G2-17** Synthesis and structure of benzo[k]fluoranthene-3,4-dicarboximides (Grad. Sch. Eng., Univ. of Hyogo) ○NAGAHARA, Masaya; NISHIDA, Jun-ichi; KITAMURA, Chitoshi; KAWASE, Takeshi**1G2-18** Synthesis and optical properties of cyclic oligophenylene containing two 10-mesityl anthracene units bridged by two biphenyl linkages (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○SHIRAI, Atsumi; SHIMIZU, Hideyuki; IYODA, Masahiko; OTANI, Hiroyuki**1G2-19** Synthesis, morphology, and optical properties of π -expanded macrocyclic oligo-3,4-diphenylthiophene 6-mer (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○KARIYA, Wakana; OTANI, Hiroyuki; SHIMIZU, Hideyuki; IYODA, Masahiko

Thursday, March 26, PM

Chair: OKUJIMA, Tetsuo (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1G2-28, 1G2-30, 1G2-32, 1G2-33)

1G2-28* Synthesis and properties of endohedral C70 encapsulating monomeric and dimeric water molecules (ICR, Kyoto Univ.; PRESTO, JST) ○ZHANG, Rui; MURATA, Michihisa; WAKAMIYA, Atsushi; MURATA, Yasujiro**1G2-30*** Synthesis of cross-conjugated 2,3-bis(aryl)[2]dendralenes and their properties (Dept. Appl. Chem., Nat. Def. Acad.) ○KAMEDA, Tsuyoshi; HAYASHI, Shotaro; KOIZUMI, Toshio**1G2-32** Modification of π -expanded porphyrins using Suzuki coupling (Grad. Sch. Eng., Utsunomiya Univ.) ○UNO, Daiki; SASAKI, Akira; OBA, Toru; ITO, Satoshi**1G2-33** Semiconducting property and thermal stability of alkyl-substituted tetrabenzoporphyrins. (Grad. Sch. Eng., Utsunomiya Univ.) ○SASAKI, Akira; UNO, Daiki; OBA, Toru; ITO, Satoshi

Chair: OBA, Toru (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1G2-35, 1G2-36, 1G2-37, 1G2-38, 1G2-39, 1G2-40)

1G2-35 Synthesis of chlorophyll derivatives possessing a sulfur-functional group at the C3 position and their physical properties (Ritsumeikan Univ.

- Graduate School of Life Sciences) TAMIAKI, Hitoshi; OKIM, Kifa; SASAKI, Shin-ichi
- 1G2-36** Synthesis and optical properties of chlorophyll derivatives possessing various acyl groups at the 3-position (Grad. Sch. Life Sci., Ritsumeikan Univ.; Grad. Sch. Sci. Tech., Ryukoku Univ.) TAMIAKI, Hitoshi; OKIMURA, Yuki; MIYATAKE, Tomohiro
- 1G2-37** Synthesis of olefinated chlorophyll derivatives through methylation and their photophysical properties (Grad. Sch. Life Sci., Ritsumeikan Univ.) HITOSHI, Tamiaki; OTSUJI, Kazuki; MIYATAKE, Tomohiro
- 1G2-38** Synthesis and Physical Properties of Diketopyrrolopyrrole Oligomers (Grad. Sch. Mat. Sci., NAIST) ASADA, Toru; ARATANI, Naoki
- 1G2-39** Synthesis of cyclo[8]pyrrole dihydrogen phosphonate salts by anion exchange method (Grad. Sch. Sci., Eng., Ehime Univ.) MATSUMOTO, Hiroki; MORI, Shigeki; UNO, Hidemitsu; OKUJIMA, Tetsuo
- 1G2-40** Synthesis of near infrared dyes based on the reaction of oxocarbonic acids and pyrrole derivatives (Grad. Sch. Sci., Eng., Ehime Univ.) JOHDAI, Kazuki; KITATSUKA, Manami; MORI, Shigeki; OKUJIMA, Tetsuo; UNO, Hidemitsu

Chair: HAYASHI, Shotaro (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1G2-42, 1G2-43, 1G2-44, 1G2-45, 1G2-46, 1G2-47)
- 1G2-42** Design and synthesis of pyradino[2,3-g]quinoxaline-based molecular semiconductors for photovoltaic application (Grad. Sch. Mat. Sci., NAIST) AOtake, Tatsuya; SUZUKI, Mitsuharu; YAMADA, Hiroko
- 1G2-43** Enantioselective Synthesis of Triphenylene-Based [9]Helicene Derivatives (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Sci., Eng., Tokyo Tech; JST ACT-C) MURAYAMA, Koichi; TANAKA, Ken
- 1G2-44** Design and Synthesis of fluorinated-functional group containing Subphthalocyanines (Grad. Sch. Eng., Nagoya Inst. of Tech.) NAGAI, Kenichiro; MORI, Satoru; IIDA, Norihito; SHIBATA, Norio; TOKUNAGA, Ethuko
- 1G2-45** Synthesis of new double-decker phthalocyanines with trifluoroethoxy groups (Grad. Sch. Eng., Nagoya Inst. of Tech.) OGAWA, Naoya; MORI, Satoru; SHIBATA, Norio
- 1G2-46** One-pot Chemo-enzymatic process using PDMS membrane (Osaka Municipal Technical Research Institute Biomaterials and Commodity Chemicals Division) SATO, Hirofumi; HUMMEL, Werner; GRÖGER, Harald
- 1G2-47** A Catalytic Synthetic Approach to HSD-016 through Enantioselective Trifluoromethylation (Grad. Sch. Eng., Nagoya Inst. of Tech.) YASUDA, Yoshimasa; OKUSU, Satoshi; SHIBATA, Norio

Friday, March 27, AM

Chair: FUCHIBE, Kohei (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2G2-01, 2G2-02, 2G2-03, 2G2-04, 2G2-05, 2G2-06)
- 2G2-01*** Synthesis of Benzocarbazole Derivatives Using Oxidative Radical Reaction with Mn(III)-Enolate Complex as a Key Reaction and Development to the New Organic EL Materials (Kumamoto Univ. Department of Science, Faculty of Science) AKAZAKI, Chiaki; NISHINO, Hiroshi
- 2G2-02*** Scandium Triflate-Catalyzed Arylative Desulfonation of Diarylmethyl Phenyl Sulfones (WPI-ITbM, Nagoya Univ.) ARIKI, Zachary T.; NAMBO, Masakazu; CANSECO-GONZALEZ, Daniel; BEATTIE, Dawson; CRUDDEN, Cathleen M.
- 2G2-03** Microwave assisted synthesis of 4-phenylbutanoic acid analogues (Coll. Sci. Eng., Kanto Gakuin Univ.) AKASTU, Yuusuke; MOCHIZUKI, Ryunosuke; IIDA, Hirokazu
- 2G2-04** Substitution Reactions Using α, α, α -Bromodifluorotoluene Derivatives (Sagami Chemical Research Institute) SHIOSAKI, Masahiro; INOUE, Munenori
- 2G2-05** Structural effects of 1,3-dipoles in the reaction with cyclic alkynes (IBB, Tokyo Med. and Dental Univ.; JNC Petrochem. Co.) TANAKA, Junko; YOSHIDA, Suguru; MATSUSHITA, Takeshi; HOSOYA, Takamitsu
- 2G2-06** Cycloaddition between alkenyl azides and cyclic alkynes (IBB, Tokyo Med. and Dental Univ.) GOTO, Sayuri; YOSHIDA, Suguru; MATSUSHITA, Takeshi; HOSOYA, Takamitsu

Chair: UEDA, Mitsuhiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2G2-08, 2G2-09, 2G2-10, 2G2-11, 2G2-12, 2G2-13)
- 2G2-08** Synthesis of Substituted Acenes Based on Cationic Cyclization of Fluoroalkenes (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) HAKOZAKI, Tomohiro; MIURA, Keisuke; FUCHIBE, Kohei; ICHIKAWA, Junji
- 2G2-09** Efficient Synthesis of Polycyclic Aromatic Hydrocarbons Utilizing Arynes with Fused Structures (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ABE, Masashi; FUCHIBE, Kohei; ICHIKAWA, Junji
- 2G2-10** Synthesis and Structure of Twisted Polycyclic Aromatic Hydrocarbon with Helicity Based on a Double Helicene Framework (Grad. Sch. Sci., Osaka Pref. Univ.) KASHIHARA, Hitoshi; KAMIKAWA, Ken
- 2G2-11** Synthesis of extended π -conjugated molecules by 1,3-dialkynylisobenzofurans (Sch. Sci. Tech., Kwasei Gakuin Univ.) ASAHINA, Kenta;

HAMURA, Toshiyuki

- 2G2-12** Regioselective Construction of Biaryls by Catalytic Generation of Benzyne (Sch. Sci. Tech., Kwasei Gakuin Univ.) OMARUYAMA, Daisuke; TAKEDA, Asa; SUZUKI, Keisuke; HAMURA, Toshiyuki
- 2G2-13** Study on the aromatization of diepoxypentacenes into substituted pentacenes (Sch. Sci. Tech., Kwasei Gakuin Univ.) OEDA, Shohei; EGUCHI, Fumiaki; KUDO, Ryoji; HAMURA, Toshiyuki

Chair: KAMIKAWA, Ken (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2G2-15, 2G2-17, 2G2-18, 2G2-19, 2G2-20)
- 2G2-15*** Super Activation of Lithium Cation Based on Carborane Anion and Its Unique Reactivity (Grad. Sch. Pharm., The Univ. of Tokyo; RIKEN CSRS) KITAZAWA, Yu; TAKITA, Ryo; MATSUBARA, Seiji; UCHIYAMA, Masanobu
- 2G2-17** Pinpoint C—F Bond Activation of Trifluoromethyl Group (IBB, Tokyo Med. and Dental Univ.) SHIMOMORI, Ken; HOSOYA, Takamitsu; YOSHIDA, Suguru
- 2G2-18** Cycloaddition of Thiophene S,S-Dioxide Derivatives with Cycloalkynes toward a Novel Chemical Modification of Biomolecules (IBB, Tokyo Med. and Dental Univ.) MEGURO, Tomohiro; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 2G2-19** Facile Synthesis of Multisubstituted Aromatic Phosphorus Compounds Based on the Michaelis-Arbuzov-Type Reaction of Aryne Intermediates (IBB, Tokyo Med. and Dental Univ.) YOSHIDA, Suguru; TSUKAMOTO, Fumio; SHIMOMORI, Ken; HOSOYA, Takamitsu
- 2G2-20** Development of the Ag-mediated introduction method of a trifluoromethyl group to aromatic compounds by way of a radical species (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ONO, Kazuki; YAMAZAKI, Takashi; TAKASUKA, Tomoko

Friday, March 27, PM

Chair: HAMURA, Toshiyuki (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2G2-28, 2G2-31, 2G2-32, 2G2-33)
- 2G2-28** Young Scholar Lectures of CSJ Novel Methods to Conjugate Molecules Based on Strained Functional Groups (IBB, Tokyo Med. and Dental Univ.) YOSHIDA, Suguru
- 2G2-31** Development of C-N Ullmann-type Coupling Reactions of Carbazole Derivatives and Aryl Iodides by Merging Visible Light Photocatalysis and Copper Catalysis (Grad. Sch. Sci., The Univ. of Tokyo) YOO, Woo-Jin; OTSUKAMOTO, Tatsuhiro; KOBAYASHI, Shu
- 2G2-32** Synthesis of 2-Naphthylamine derivatives via Intramolecular Cyclization of *o*-Vinylbenzyl cyanides (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ABE, Taiki; YOSHIMURA, Fumihiko; TANINO, Keiji
- 2G2-33** Activation of Reductive Silylation with Polycyclic Aromatic Compounds (Grad. Sch. Sci. Tech., Gunma Univ.) OKITA, Hikaru; KANNO, Ken-ichiro; KYUSHIN, Soichiro

Chair: NISHINA, Yuta (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2G2-35, 2G2-36, 2G2-37, 2G2-38, 2G2-39, 2G2-40)
- 2G2-35** Facile Synthesis of Multisubstituted Benzo[*b*]thiophenes Based on Transformations via Thienobenzyne Intermediates (IBB, Tokyo Med. and Dental Univ.) MORITA, Takamoto; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 2G2-36** Generation and Transformations of 3-Haloarynes Triggered by Iodine-Magnesium Exchange Reaction (IBB, Tokyo Med. and Dental Univ.) NAGAI, Akira; UCHIDA, Keisuke; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 2G2-37** 3-Triflyloxyarynes: An Improved Generation Method, Studies on Regioselectivity in Aryne Generation, and Applications to the Synthesis of Polycyclic Arenes. (IBB, Tokyo Med. and Dental Univ.) UCHIDA, Keisuke; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 2G2-38** Cross-coupling of Aryl Diazonium Salts with Arenes Induced by Polyaniline (Grad. Sch. Eng., Osaka Univ.) AMAYA, Toru; OHATA, Dai; HIRAO, Toshikazu
- 2G2-39** Synthesis of Novel Fullerene Derivatives having Alkylidene-cyclobutane Skeleton (Grad. Sch. Sci., Osaka Pref. Univ.) SAKAGUCHI, Tsukasa; UEDA, Mitsuhiro; YOSHIDA, Syunsuke; YASUDA, Hiroshi; RYU, Ilhyong
- 2G2-40** [2+2] Photocycloaddition of Fullerene with Coumarin Derivatives (Fac. Sci., Osaka Pref. Univ.) HAYAMA, Miho; UEDA, Mitsuhiro; YASUDA, Hiroshi; YOSHIDA, Syunsuke; RYU, Ilhyong

Chair: NISHINAGA, Tohru (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2G2-42, 2G2-43, 2G2-44, 2G2-45, 2G2-46, 2G2-47)
- 2G2-42** Oxidative dehydrogenative coupling reaction using graphene oxide as an oxidant (RCIS, Okayama Univ.) MORIOKU, Kumika; MORIMOTO, Naoki; NISHINA, Yuta
- 2G2-43** Catalytic oxidation using reduced graphene oxide (RCIS, Okayama Univ.) MORIMOTO, Naoki; TAKEUCHI, Yasuo; NISHINA, Yuta
- 2G2-44** Catalyst-Free Aminocarbonylation of Iodoarenes under Photoirradiation

Room G3

Bldg.12 1233

Organic Chemistry -Reaction and Synthesis-
Heterocyclic Compounds

Thursday, March 26, AM

Chair: MUTOH, Yuichiro (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1G3-01, 1G3-02, 1G3-03, 1G3-04, 1G3-05)

1G3-01 Photochemical Reactions of 1,3-diphenyltetrazolium-5-thiolates with an isopropyl group or ethynyl group at the ortho position (Grad. Sch. Eng., Nagoya Inst. of Tech.) ODOI, Akihiro; YAMASHITA, Yukinobu; HIRASHITA, Tsunehisa; ARAKI, Shuki**1G3-02** Reactions of 1,3-diphenyltetrazolium-5-hydroxylamide (Grad. Sch. Eng., Nagoya Inst. of Tech.) O MATSUKAWA, Yuta; HIRASHITA, Tsunehisa; ARAKI, Shuki**1G3-03** Nucleophilic Addition of Tetrazoles to Haloalkynes and Its Application (Grad. Sch. Biosci. Biotech., Tokyo Tech) YAMAGISHI, Masahito; OKOYANAGI, Tetsuya; HATA, Takeshi; URABE, Hirokazu**1G3-04** Cyclization Reaction of Substituted Alkenyl Esters and Amides of Ethenettricarboxylate (Nara Univ. of Educ.; Grad. Sch. Mat. Sci., NAIST) YAMAZAKI, Shoko; OWADA, Junya; KAKIUCHI, Kiyomi**1G3-05** Synthesis of α -functionalized unsaturated oximes and heterocyclic compounds by Umpolung substitution using nitrosoallenes (Grad. Sch. Mat. Sci., NAIST) OTANIMOTO, Hiroki; MIZUTANI, Yusuke; YOKOYAMA, Keiichi; KAKIUCHI, Kiyomi

Chair: TANIMOTO, Hiroki (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1G3-08, 1G3-09, 1G3-10, 1G3-11, 1G3-12, 1G3-13)

1G3-08 Catalytic Cyclization of Allyl Amides of Ethenettricarboxylate Promoted by Lewis acid (Nara Univ. of Educ.; Grad. Sch. Mat. Sci., NAIST) YAMAZAKI, Shoko; ONIINA, Mamiko; KAKIUCHI, Kiyomi**1G3-09** Copper(II)-Catalyzed [4 + 1] Annulation of Propargylamines with *N*, *O*-Acetals: New Entry to Synthesis of Polysubstituted Pyrrole Derivatives (Fac. Sci. Technol., Tokyo Univ. of Sci.) OHORI, Hiroaki; OGIWARA, Yohei; SAKAI, Norio**1G3-10** Indium-Catalyzed One-pot Preparation of *N*-Substituted Lactams via Direct Reductive Amination of Keto Acids with Primary Amines (Fac. Sci. Technol., Tokyo Univ. of Sci.) OUCHIYAMA, Takuya; OGIWARA, Yohei; SAKAI, Norio**1G3-11** Synthesis of multiply substituted piperidines based on Cu-catalyzed formation of 1,6-dihydropyridines (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) OWATANABE, Ryo; MIZOGUCHI, Haruki; MINAMI, Shintaro; OGURI, Hiroki; OIKAWA, Hideaki**1G3-12** A Short-Step Construction of Fused Pyridine Alkaloid Skeletons via a Key Step involving Hetero Diels-Alder Reaction of Isotellurazoles (Grad. Sch. Eng., Iwate Univ.) SHIMADA, Kazuaki; OTANEICHI, Yusuke; KORENAGA, Toshinobu**1G3-13** Compounds having imidazo[1,5-*a*]pyridine skeleton with organometallic reagents (Chubu Univ. Department of Applied Chemistry, College of Engineering) OKAMIYA, Kenji; KUSUNOSE, Masashi; NIYOMURA, Osamu

Chair: YAMAZAKI, Shoko (11 : 20 ~ 12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1G3-15, 1G3-16, 1G3-18, 1G3-19, 1G3-20)

1G3-15 Chromium Oxide-Catalyzed Oxidation of Dimethyl- and Diethyl-2,2'-bipyridines (TITC Central Research Institute) OYAMAZAKI, Shigekazu**1G3-16** Synthesis of *N,N*,2,6-Tetrasubstituted 4-Nitroalmines by Three Component Ring Transformation of Dinitropyridone (Sch. Env. Sci. Eng., KUT) OLE, Thi Song; ASAHARA, Haruyasu; NISHIWAKI, Nagatoshi**1G3-18** Synthesis of 3,5-Dinitro-1,4-dihydropyridines by the Condensation of Formylnitroenamine with Aldehydes (Sch. Env. Sci. Eng., KUT) OHAMADA, Mai; ASAHARA, Haruyasu; NAKAIKE, Yumi; NISHIWAKI, Nagatoshi**1G3-19** Effective Skeletal Construction of 4-aminopyrimidines and 4-aminoquinazolines with β -cyanoenamines and isocyanides (Fac. Sci. Technol., Tokyo Univ. of Sci.) ONAKANO, Tsukasa; KATO, Takubo; OGIWARA, Yohei; SAKAI, Norio; KONAKAHARA, Takeo**1G3-20** NHC-catalyzed nucleophilic arylation of quinazoline at the C5-C8 position (Grad. Sch. of Sci. Technol., Sophia Univ.) ONAKAGAWA, Mizuki; SUZUKI, Yumiko

Thursday, March 26, PM

Chair: YAMAGUCHI, Eiji (13 : 30 ~ 14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1G3-28, 1G3-29, 1G3-30, 1G3-31, 1G3-32)

tion Conditions (Grad. Sch. Sci., Osaka Pref. Univ.) OSATO, Aoi; KAWAMOTO, Takuji; RYU, Ilhyong

2G2-45 Chiral Borate Salt Catalyzed Friedel-Crafts Alkylation of Indoles with α, β -Disubstituted Acroleins (Grad. Sch. Sci., Osaka Pref. Univ.) OYAGYU, Yoshitaka; UEDA, Mitsuhiro; RYU, Ilhyong**2G2-46** Catalytic Asymmetric 1,2-Type Friedel-Crafts Reaction of Phenols Based on Entropy-associated Stereodiscrimination (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OHIRAO, Shogo; KATO, Masaru; IIDA, Keisuke; SOHTOME, Yoshihiro; NAGASAWA, Kazuo**2G2-47** Guanidinium-iodide catalyzed umpolung type coupling reaction of β -ketoamide with oxindoles (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OKATO, Takanari; YASUI, Koji; NAGASAWA, Kazuo

Saturday, March 28, AM

Chair: ARAI, Noriyoshi (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3G2-01, 3G2-02, 3G2-03, 3G2-04, 3G2-05, 3G2-06)

3G2-01 Single Electron Transfer-Induced Coupling of Aryl Halides with Alkylzinc Reagents Prepared from Alkylolithiums by Transmetalation (Grad. Sch. Sci., Kyoto Univ.) OKURA, Keisuke; SHIRAKAWA, Eiji**3G2-02** Single Electron Transfer-Induced Coupling of Alkylzinc Reagents with Aryl Iodides (Grad. Sch. Sci., Kyoto Univ.) OKAWASHIMA, Hitomi; OKURA, Keisuke; NISHIDA, Naoya; TAMAKUNI, Fumiko; SHIRAKAWA, Eiji**3G2-03** Single Electron Transfer-Induced Coupling of Arylboronic Acids with Aryl Iodides Using Diethylzinc as an Activator (Grad. Sch. Sci., Kyoto Univ.) OYOSHIDA, Yuto; OKURA, Keisuke; SHIRAKAWA, Eiji**3G2-04** Enantioselective Rauhut-Currier reaction promoted by an immobilized organocatalyst (ISIR, Osaka Univ.) OHIRATA, Shuichi; KISHI, Kenta; TAKIZAWA, Shinobu; SASAI, Hiroaki**3G2-05** Iron-Catalyzed ortho Alkylation of Carboxamides with Organoalane under Low Catalyst Loading (Grad. Sch. Sci., The Univ. of Tokyo) OSHANG, Rui; ILIES, Laurean; NAKAMURA, Eiichi**3G2-06** Co-catalyzed Annulation of Alkynes with *o*-Methoxycarbonyl Phenylboronic Acid (Fac. Sci., Osaka Pref. Univ.) OSUYAMA, Yuki; UEDA, Mitsuhiro; RYU, Ilhyong

Chair: HOSAKAWA, Seiji (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3G2-08, 3G2-09, 3G2-10, 3G2-11, 3G2-12, 3G2-13)

3G2-08 Oxidative Coupling Reaction of Aromatic Compounds Utilizing Metal Oxide Supported Gold Nanoparticles and the mechanism (Grad. Sch. Sci., Kyushu Univ.) OAKEBI, Ryota; ISHIDA, Tamao; MISE, Yoshiyuki; AIKAWA, Shohei; HAMASAKI, Akiyuki; MIYASAKA, Mitsuru; YAMAMOTO, Yasushi; TSUJI, Tetsuro; TOKUNAGA, Makoto**3G2-09** Selective Hydrogenation Catalyzed by Alkyne Derivatives-Stabilized Palladium Nanoparticles (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ONODERA, Nazomi; ARAI, Noriyoshi; DEKITA, Atushi; HORI, Junichi; OHKUMA, Takeshi**3G2-10** *o*-Selective deiodination of *o, p*-diiodophenols by using Red-Al (Grad. Sch. Biosci. Biotech., Tokyo Tech) OKONDO, Daiki; IKOMA, Atsushi; OGAWA, Narihito; KOBAYASHI, Yuichi**3G2-11** Peroxide-Promoted α -Arylation of Aliphatic Amines with Aryl Halides (Grad. Sch. Sci., Kyoto Univ.) OUENO, Ryota; SHIRAKAWA, Eiji**3G2-12** Peroxide-Promoted Reduction of Aryl Halides with 2-Propanol (Grad. Sch. Sci., Kyoto Univ.) OSHIMIZU, Takashi; UENO, Ryota; SHIRAKAWA, Eiji**3G2-13** Study of the Alternate Selectivity in the Lithiation of the Hexaphenylbenzene Framework (Grad. Sch. Arts and Sci., The Univ. of Tokyo) OKOJIMA, Tatsuo; HIRAOKA, Shuichi

Chair: KOJIMA, Tatsuo (11 : 20 ~ 12 : 10)

* 11:10-11:20: interval for laptop PC connection.(3G2-15, 3G2-17, 3G2-18, 3G2-19)

3G2-15 Facile Synthesis of Diazo Compounds Based on the Formal C-H Azidation and Application to the Azido-type Selective Sequential Molecular Conjugation (IBB, Tokyo Med. and Dental Univ.) OHOSOYA, Takamitsu; MISAWA, Yoshihiro; YOSHIDA, Suguru**3G2-17** *tert*-Butoxide-Promoted Coupling of Aryl Iodides with Arenes Using *tert*-Butyl Hyponitrite as an Initiator (Grad. Sch. Sci., Kyoto Univ.) OKIRIYAMA, Kazuya; SHIRAKAWA, Eiji**3G2-18** Synthesis of spirochalconol by using S_N2' allylic substitution for the construction of a quaternary carbon (Grad. Sch. Biosci. Biotech., Tokyo Tech) OSUGIHARA, Yusuke; TOJO, Toshifumi; KOBAYASHI, Yuichi**3G2-19** Studies toward the total synthesis of A-74528 (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) OYOSHINO, Yuri; SEKINE, Daisuke; HARACHI, Mio; HOSOKAWA, Seiji

- 1G3-28** Acid-promoted Intramolecular Hetero Diels-Alder Reaction of *o*-Alkynylphenylcarbodiimide (Fac. Sci., Tokyo Univ. of Sci.; Univ. of Tsukuba International Institute for Integrative Sleep Medicine) OKOYAMA, Yasuaki; KUTSUMURA, Noriki; NAGASE, Hiroshi; SAITO, Takao
- 1G3-29** Catalytic Synthesis of Isoquinoline Derivatives from Imines through Migration of Substituents on Nitrogen (Grad. Sch. Eng., Osaka Univ.) OSASAKA, Yukari; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensusuke
- 1G3-30** Development of the Pd(II)-catalyzed cyclization and its application to the synthetic studies of carbazole alkaloids (Univ. of Toyama Graduate school of science and engineering) YOKOYAMA, Hajime; OSHOJI, Yuzen; KUBO, Takayoshi; MATSUMURA, Yosuke; HOSOKAWA, Junichi; MIYAZAWA, Masahiro; HIRAI, Yoshiro
- 1G3-31** Synthesis of tricyclic benzazonines by the acid-catalyzed aza-Prins reaction (Fac. Sci., Tokyo Univ. of Sci.) OKATAMURA, Tomohiro; SHIMIZU, Tomoaki; MUTOH, Yuichiro; SAITO, Shinichi
- 1G3-32*** Functionalization of the 1-Methyl-2-quinolone Framework Activated by Steric Repulsion of the Substituents (Sch. Env. Sci. Eng., KUT) ASAHARA, Haruyasu; CHEN, Xin; ONISHIWAKI, Nagatoshi
- Chair: NISHIWAKI, Nagatoshi (14 : 40~15 : 40)
- * 14:30-14:40: interval for laptop PC connection.(1G3-35, 1G3-36, 1G3-38, 1G3-39, 1G3-40)
- 1G3-35** Novel synthesis of isoindoles using pyrolysis reaction (Grad. Sch. Eng., Utsunomiya Univ.) OSHINOZAKI, Yasutaka; OBA, Toru; ITO, Naotsugu; SATO, Takafumi; ITO, Satoshi
- 1G3-36*** Synthesis of 3,4-fused 2-quinolones from (*o*-aminophenyl)propiolate via cycloaddition (Grad. Sch. Pharm. Sci., Nagoya Univ.) OMURAYAMA, Tsukasa; SHIBUYA, Masatoshi; YAMAMOTO, Yoshihiko
- 1G3-38** Development of synthetic method toward polycyclic heterocycles by means of visible light mediated radical cyclization (Gifu Pharm. Univ.) OSUDO, Yusuke; YAMAGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika
- 1G3-39*** Synthesis of novel Spiro [indole-pyrazoles] using isocyanide based multi component reaction (Grad. Sch. Eng., KIT) OJALLI, Venkataprasad; MORIGUCHI, Tetsuji; ARAKI, Koji; TSUGE, Akihiko
- 1G3-40** Phosphinic acid-promoted addition reaction of isocyanides to 1-methoxyisochroman (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) OMATSUZAKI, Syunsuke; SOETA, Takahiro; UKAJI, Yutaka
- Chair: YAMAMOTO, Yoshihiko (15 : 50~16 : 40)
- * 15:40-15:50: interval for laptop PC connection.(1G3-42, 1G3-44, 1G3-45, 1G3-46)
- 1G3-42*** Intramolecular C-H Amination of Aromatic Compounds via Electron Transfer (Grad. Sch. Eng., Kyoto Univ.) OMOROFUJI, Tatsuya; SHIMIZU, Akihiro; YOSHIDA, Jun-ichi
- 1G3-44** Intramolecular cyclization of 2-(*N*-pyrrolylsulfonyl)benzoic acid (IRC3, AIST; Fac. Sci. Technol., Tokyo Univ. of Sci.) SHIMIZU, Masao; MASUDA, Kotaro; TANAKA, Shinji; ANDO, Wataru; SAKAI, Norio
- 1G3-45** Synthesis of Various 1,3-Thiazole Derivatives through Oxidative Ring Closure of 1,3-Thiaza-1,3-butadienes (Grad. Sch. Eng., Iwate Univ.) SHIMADA, Kazuaki; OISOGAMI, Megumi; KORENAGA, Toshinobu
- 1G3-46** Substituent Effect on Ring-expansion Reaction of Vinylsulfonium Ylide (Kobe City Coll. Technol.) OICHINOSE, Yuma; KOIZUMI, Takuya

Friday, March 27, AM

Chair: SENGOKU, Tetsuya (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2G3-01, 2G3-02, 2G3-03, 2G3-04, 2G3-05, 2G3-06)
- 2G3-01** Mn(III)-Based Oxidation of 3-Ethenyl-2,4-pentanediones and their Derivatives (Grad. Sch. Sci. Technol., Kumamoto Univ.) OHASHIMOTO, Shintarou; NISHINO, Hiroshi
- 2G3-02** Oxazolidine synthesis by three component reaction of diazo compound, aldehyde, and imine-Scope and limitation of substrates (Grad. Sch. Sci. Technol., Shinshu Univ.) OKAMIYA, Hideaki; SUGA, Hiroyuki
- 2G3-03** Palladium-catalyzed Dipolar Cycloaddition Reactions of Oxidopyrylium Ylides with Olefinic Dipolarophiles (Grad. Sch. Sci. Technol., Shinshu Univ.) TAKAHASHI, Kie; KIMURA, Miyuki; IWAI, Taichi; SUGA, Hiroyuki
- 2G3-04** Development of the synthetic method of furoxan derivatives (Grad. Sch. Sci., Kobe Univ.) ANDO, Akihiro; MATSUBARA, Ryosuke
- 2G3-05** Withdrawn
- 2G3-06** Preparation of Oxazoles from Ketones and Nitriles with Molecular Iodine and Oxone (Grad. Sch. Sci., Chiba Univ.) OIMAI, Sho; MORIYAMA, Katsuhiko; TOGO, Hideo

Chair: YOSHIMATSU, Mitsuhiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2G3-08, 2G3-09, 2G3-10, 2G3-11, 2G3-12, 2G3-13)
- 2G3-08** Synthesis of lamellarins using [1]benzopyrano[3,4-*b*]pyrrol-4(3*H*)-one as a key intermediate (1) (Grad. Sch. Eng., Nagasaki Univ.) OKATAE, Takatoshi; HARADA, Issei; FUKUDA, Tsutomu; IWAO, Masatomo
- 2G3-09** Synthesis of lamellarins using [1]benzopyrano[3,4-*b*]pyrrol-4(3*H*)-one as a key intermediate (2) (Grad. Sch. Eng., Nagasaki Univ.) HARADA, Issei; KATAE, Takatoshi; FUKUDA, Tsutomu; IWAO, Masatomo

- 2G3-10** Synthesis of 6-halogenated lamellarin N derivatives (Grad. Sch. Eng., Nagasaki Univ.) OTOKUSHIMA, Keiji; FUKUDA, Tsutomu; IWAO, Masatomo
- 2G3-11** Total Synthesis of Clavicipitic Acid via Ir-Catalyzed C-H Bond Activation (Sch. Advanced Sci. Eng., Waseda Univ.) OITO, Mamoru; TAHARA, Yu-ki; SHIBATA, Takanori
- 2G3-12** Development of Stereoselective Synthesis of Marinolic Acid A, An Anti-MRSA Agent (Grad. Sch. Eng., Shizuoka Univ.) SENGOKU, Tetsuya; MOMOSE, Naoto; WARASINA, Takuya; TAKAHASHI, Masaki; YODA, Hidemi
- 2G3-13** Chichibabin pyridine synthesis of the COPD biomarker isodesmosine (Fac. Sci., Sophia Univ.) KOMATSU, Akira; SUGIMURA, Takanori; TANIGAWA, Takahiro; KOSEKI, Yohei; USUKI, Toyonobu

Chair: SUZUKI, Yumiko (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2G3-15, 2G3-16, 2G3-17, 2G3-18, 2G3-19, 2G3-20)
- 2G3-15** Synthesis of benzofuropyrazoles as a new class of hypoxia inducible factor (HIF)-1 inhibitors. (Grad. Sch. Sci. and Technol., Gakushuin Univ.) MINEGISHI, Hidemitsu; NAKAMURA, Hiroyuki
- 2G3-16** Nucleic Base-Promoted Cyclization of 1,6-Diynes (Fac. Edu., Gifu Univ.) KOBAYASHI, Yuka; YOSHIMATSU, Mitsuhiro
- 2G3-17** Rhodium-catalyzed synthesis of benzo naphthopyranone from diazo-naphthoquinone (Grad. Sch. Eng., KIT) TAKAHASHI, Shuhei; KANEMURA, Koichi; OKAUCHI, Tatsuo; KITAMURA, Mitsuru
- 2G3-18** Synthesis of Aryl Azides from phenol with guanidino diazonium salt (Grad. Sch. Eng., KIT) MURAKAMI, Kento; KOGA, Tatsuya; OKAUCHI, Tatsuo; KITAMURA, Mitsuru
- 2G3-19** The Study of Coupling Reaction Using Tetrazole-based Ligand (Sch. Sci., Tokai Univ.) NAKAMURA, Kaori; KOGUCHI, Shinichi
- 2G3-20** Oxidation of Alcohol Using IBX-based Ionic Liquid (Sch. Sci., Tokai Univ.) MIHOYA, Aya; KOGUCHI, Shinichi

Friday, March 27, PM

Chair: ISHIMARU, Yoshihiro (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2G3-28, 2G3-29, 2G3-30, 2G3-31, 2G3-32, 2G3-33)
- 2G3-28** NHC-catalyzed reaction, the reactivity of Breslow intermediate in nucleophilic acylation (Grad. Sch. of Sci. Technol., Sophia Univ.; Grad. Sch. Sci., Rikkyu Univ.) DOBASHI, Kohei; SUZUKI, Yumiko; IWATA, Naoto; ISHITHUBO, Erika; TOKIWA, Hiroaki
- 2G3-29** Catalytic Aerobic Oxidation of Alcohols by a Mesoionic Derivative (Grad. Sch. Eng., Nagoya Inst. of Tech.) OITO, Satomi; HIRASHITA, Tsunehisa; ARAKI, Shuki
- 2G3-30** Reactivity of N-Phosphine Oxide-Substituted N-Heterocyclic Carbene (Grad. Sch. Eng., Osaka Univ.) ASADA, Takahiro; HOSHIMOTO, Yoichi; OHASHI, Masato; SENSUKE, Ogoshi
- 2G3-31** Synthesis of Novel Thienopyrazines Bearing an Amino Group Using Hypervalent Iodine Reagent and Their Properties (Grad. Sch. Eng., Osaka Univ.) UETA, Satoshi; TAKEDA, Youhei; MINAKATA, Satoshi
- 2G3-32** Preparation Conditions of Novel Oligomers Giving Gold-Like Coatings (Grad. Sch. Adv. Integration Sci., Chiba Univ.) KOBAYASHI, Makoto; MASU, Hyuma; ITOH, Tsutomu; HOSHINO, Katsuyoshi
- 2G3-33** Synthesis and spectrum of dithenylloxadiazolopyridines emitting FL in NIR region (Grad. Sch. Eng., Kyushu Sangyo Univ.) IWASAKI, Wataru; NAOMOTO, Kensuke; NAKASHIMA, Takahiro; MATSUOKA, Yohei; YAZUMI, Takashi; KASHIWA, Yuki; NISHI, Kentaro; ISOBÉ, Shin-ichiro

Chair: HOSHIMOTO, Yoichi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2G3-35, 2G3-36, 2G3-37, 2G3-38, 2G3-39, 2G3-40)
- 2G3-35** Investigation of the steric hindrance factor in antiaromatic porphyrin analog (Grad. Sch. Sci., Eng., Saitama Univ.) SHIBA, Haruaki; FUJIHARA, Takashi; SETSUNE, Jun-ichiro; ISHIMARU, Yoshihiro
- 2G3-36** Synthesis and properties of new antiaromatic porphyrin analog containing hetero cycles (Grad. Sch. Sci., Eng., Saitama Univ.) IKEDA, Ryo; FUJIHARA, Takashi; SETSUNE, Jun-ichiro; ISHIMARU, Yoshihiro
- 2G3-37** Synthesis and properties of large porphyrinoid compounds with BODIPY (Grad. Sch. Sci., Eng., Saitama Univ.) TAKAHASHI, Fumiya; FUJIHARA, Takashi; SETSUNE, Jun-ichiro; ISHIMARU, Yoshihiro
- 2G3-38** Synthesis and properties of Thieno[2,3-*d*:5,4-*d'*]bisthiazole 4-oxide (Fac. Eng., Gifu Univ.; Fac. Eng., Saitama Univ.) OKAWAI, Yasuhiro; KAGA, Shigesaki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 2G3-39** Synthesis and evaluation of novel dyes with heterocyclic anchoring group (Yokohama Coll. of Pharmacy; Grad. Sch. Sci., Eng., Tokyo Tech; Grad. Sch. Life Sci. Sys. Eng., KIT) MASUI, Hisashi; FUSE, Shinichiro; MAITANI, Masato; WADA, Yuji; OGOMI, Yuhei; HAYASE, Shuji; TAKAHASHI, Takashi
- 2G3-40** Synthesis of novel conjugated phenol derivatives bridged by heterocycles having amyloid- β aggregation inhibitory activity (Grad. Sch. Eng., Iwate Univ.) KAWANO, Tomikazu; OHASHI, Toshika; OGAWA, Satoshi

Saturday, March 28, AM

Chair: OKAUCHI, Tatsuo (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3G3-01, 3G3-02, 3G3-03, 3G3-04, 3G3-05, 3G3-06)
- 3G3-01** Asymmetric Michael/Henry Reaction Using Chiral Bis(imidazolidine)pyridine-Nickel Complex: Synthesis of Novel Chiral Thiochromanyl-Spirooxindole Compounds (Grad. Sch. Sci., Chiba Univ.) ○OGAWA, Hiroki; ARAI, Takayoshi
- 3G3-02** BICMAP-Rhodium Catalyzed Asymmetric 1,4-Addition to Coumarins (Grad. Sch. Eng., Chiba Univ.) MINO, Takashi; ○MIURA, Kazuki; MIZUTANI, Yuki; TAGUCHI, Hiroyuki; SAKAMOTO, Masami
- 3G3-03** Asymmetric Alcohol Addition Reaction Using Isatin-derived Ketimines Catalyzed by Chiral Bis(imidazolidine)pyridine-metal Complex (Grad. Sch. Sci., Chiba Univ.) ○TSUCHIYA, Kento; MATSUMURA, Eri; ARAI, Takayoshi
- 3G3-04[#]** Development of Catalytic Asymmetric Diels-Alder Reaction of Nitro Olefin and Furans Using Chiral Organocatalyst (Grad. Sch. Sci., Osaka City Univ.) ○UEDA, Shota; SHINADA, Tetsuro
- 3G3-05** Synthesis of chiral hydroxamic acids having pyrroloimidazole structure and their application in asymmetric oxidation (Yokohama Natl. Univ. Engineering Science) ○MORITA, Junya; HOSHINO, Yujiro; HONDA, Kiyoshi
- 3G3-06** The development of multifunctional *N*-Heterocyclic carbene ligands bearing a pyridine moiety: Copper-catalyzed asymmetric alkylation of *N*-sulfonylimines with dialkylzinc reagents (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○ISHIZAKA, Tomohiro; SOETA, Takahiro; UKAJI, Yutaka

Chair: SOETA, Takahiro (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3G3-08, 3G3-09, 3G3-10, 3G3-11, 3G3-12, 3G3-13)
- 3G3-08** Optical resolution of 2-hydroxymethyltriethylenediamine (Sagami Chemical Research Institute; Grad. Sch. Sci., Kitasato Univ.) ○OHTA, Hayato; SHIOSAKI, Masahiro; INOUE, Munenori
- 3G3-09** Novel Chiral Ionic Liquids Containing hydroxy- or cyano group for Asymmetric Michael Reaction. (Fac. Eng., Oita Univ.) ○TANGE, Masakazu; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 3G3-10** Synthetic Study of Chiral Imidazolium Salts bearing a Bulky Bornane Substituent (Fac. Eng., Iwate Univ.) SHIMADA, Kazuaki; ○FUKUMA, Kodai; KORENAGA, Toshinobu
- 3G3-11[#]** Enantioselective Synthesis of Hetero Helicenes bearing 1,2,3-Triazole units (ISIR, Osaka Univ.) ○SAKAI, Tomohiro; YOSHIDA, Yasushi; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 3G3-12[#]** Novel Chiral Benzimidazole Ligands Having a Spiro Skeleton: Design, Preparation and Application (ISIR, Osaka Univ.) ○TAKATANI, Shuhei; SAWADA, Kazuya; TAKENAKA, Kazuhiro; SASAI, Hiroaki
- 3G3-13** Synthesis and reaction of chiral guanidinodiazonium salt (Grad. Sch. Eng., KIT; Grad. Sch. Eng., KIT) ○ISHIKAWA, Akihiro; OKAUCHI, Tatsu; KITAMURA, Mitsuru

Room G4
Bldg.12 1234

Organic Chemistry -Reaction and Synthesis-
Organic Photochemistry

Friday, March 27, AM

Chair: NISHIMURA, Yoshinobu (10 : 00 ~ 10 : 40)

- * 9:50-10:00: interval for laptop PC connection.(2G4-07, 2G4-08, 2G4-09, 2G4-10)
- 2G4-07** Study on the active site property of firefly luciferase with amino-substituted dehydroluciferin analogs (Sci. Eng., The Univ. of Electro-Communications) ○AZAMI, Takehiro; MAKI, Shojiro; HIRANO, Takashi
- 2G4-08** Effect of Substituents on Silicon and Pyrene Ring upon Absorption and Fluorescence Properties of Silylthynylpyrenes (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○UENO, Ryota; SHOJI, Tomokazu; MAEDA, Hajime; SEGI, Masahito
- 2G4-09** Synthesis and Fluorescence Properties of Pyrene-core Dendrimer Molecules (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○TAKAYAMA, Nana; MAEDA, Hajime; SEGI, Masahito
- 2G4-10** "Excited State C-C Bond Cleavage-Emission" Phenomenon of Cyclopropane Derivatives Possessing a Benzophenone Moiety (Grad. Sch. Eng., Osaka Pref. Univ.; Osaka Pref. Univ. The Research Institute for Molecular Electronic Devices) ○OISHI, Toru; MATSUI, Yasunori; OHTA, Eisuke; IKEDA, Hiroshi

Chair: HIRANO, Takashi (10 : 50 ~ 11 : 50)

- * 10:40-10:50: interval for laptop PC connection.(2G4-12, 2G4-13, 2G4-14,

2G4-16)

- 2G4-12** Study of photoreaction mechanism of the caged compound which has intramolecular hydrogen bond (Sch. Sci. Eng., Univ. of Tsukuba) ○SUGIMOTO, Ryo; ARAI, Tatsuo
- 2G4-13** Development of photolabile protecting groups with two-photon absorption ability for physiological studies (Grad. Sch. Sci., Hiroshima Univ.) ○KOMORI, Naomitsu; ABE, Manabu
- 2G4-14[#]** Synthesis and Evaluation of Novel Caged Antisenseoligonucleotide possessing fluorescence property (Grad. Sch. Mat. Sci., NAIST) ○NISHIYAMA, Yasuhiro; SASAKI, Yasuo; HISAI, Terunobu; HIKAGE, Shin; KAKIUCHI, Kiyomi
- 2G4-16^{*}** Mechanistic Study on the Novel Photocyclodimerization of 2,6-Anthracenedicarboxylate Mediated by Human Serum Albumin (Osaka Univ. Office for University-Industry Collaboration; Grad. Sch. Eng., Osaka Univ.) ○NISHIJIMA, Masaki; TANAKA, Koichiro; MORI, Tadashi; FUKUHARA, Gaku; INOUE, Yoshihisa

Friday, March 27, PM

Chair: MAEDA, Hajime (13 : 20 ~ 14 : 10)

- * 13:10-13:20: interval for laptop PC connection.(2G4-27, 2G4-28, 2G4-29, 2G4-30, 2G4-31)
- 2G4-27** External Manipulation of Enantiodifferentiating Photocyclodimerization of 2-Anthracenedicarboxylate Mediated by Molecularly Imprinted Polymer (Grad. Sch. Eng., Osaka Univ.; Osaka Univ. Office for University-Industry Collaboration.) ○KUROKAWA, Yuki; TANAKA, Hidekazu; NISHIJIMA, Masaki; FUKUHARA, Gaku; MORI, Tadashi; INOUE, Yoshihisa
- 2G4-28** Study of intramolecular hydrogen bonding and excited state properties of hydroxychalcone derivatives having diene moiety (Sch. Sci. Eng., Univ. of Tsukuba) ○SHINOZAKI, Yukino; ARAI, Tatsuo
- 2G4-29** Higher-Order Supramolecular Complexation and Photocyclodimerization of 1*H*-Indene-2-carboxylic Acid Mediated by Chiral Templates. (Grad. Sch. Eng., Osaka Univ.; Osaka Univ. Office for University-Industry Collaboration) ○TAKAWA, Shun; NISHIJIMA, Masaki; MORI, Tadashi; FUKUHARA, Gaku; INOUE, Yoshihisa
- 2G4-30** Synthesis and Photochemical Behavior of Rigid Eneidyne Dendrimers having Polyphenylene Type Dendrons (Sch. Sci. Eng., Univ. of Tsukuba) ○KOBAYASHI, Tetsuya; ARAI, Tatsuo
- 2G4-31** The recognition of anions by coumarin-urea derivative (Sch. Sci. Eng., Univ. of Tsukuba) ○SHINODA, Tomoyuki; NISHIMURA, Yoshinobu; ARAI, Tatsuo

Chair: OHTA, Eisuke (14 : 20 ~ 15 : 10)

- * 14:10-14:20: interval for laptop PC connection.(2G4-33, 2G4-34, 2G4-35, 2G4-36, 2G4-37)
- 2G4-33** Excitation Wavelength-Controlled Photochemistry of Donor-Acceptor Systems. Effect of Charge-Transfer Interaction on Paternó-Büchi Reaction (Grad. Sch. Eng., Osaka Univ.) ○NAGASAKI, Keisuke; MORI, Tadashi; FUKUHARA, Gaku; INOUE, Yoshihisa
- 2G4-34** Excitation Wavelength-Controlled Photochemistry of Donor-Acceptor Systems. Comparison of Stereoselectivity in Photo and Thermal Cyclization of Tethered Anthracene-Fumarate System (Grad. Sch. Eng., Osaka Univ.) ○ICHIKAWA, Makoto; MORI, Tadashi; FUKUHARA, Gaku; INOUE, Yoshihisa
- 2G4-35** Excitation Wavelength-Controlled Photochemistry of Donor-Acceptor Systems. Controlling Intramolecular Photocyclization/Rearrangement through Hyperconjugation in the Excited State (Grad. Sch. Eng., Osaka Univ.) ○MATSUKI, Nobuo; MORI, Tadashi; FUKUHARA, Gaku; INOUE, Yoshihisa
- 2G4-36** Intramolecular [2+2] Photocycloaddition Reaction of Chromonecarboxylic Acid Derivatives Combined with Polyether (Grad. Sch. Eng., Chiba Univ.) SAKAMOTO, Masami; ○KATABIRA, Satoshi; TAIRA, Ryo; YOSHIDA, Wataru; YAGISHITA, Fumitoshi; MINO, Takashi
- 2G4-37** Generation and amplification of chirality by photoisomerization of aroylacrylamide (Grad. Sch. Eng., Chiba Univ.) SAKAMOTO, Masami; ○SHIRATSUKI, Ko; DOUKE, Mio; ISHIKAWA, Hiroki; MINO, Takashi

Chair: HIRAI, Katsuyuki (15 : 20 ~ 16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(2G4-39, 2G4-40, 2G4-41, 2G4-42, 2G4-43, 2G4-44)
- 2G4-39** Meta-photocycloadditions of Methyl 2-Naphthoate Derivatives with Alkenes (Shimane Univ. Graduate School of Science and Engineering; Fac. Sci. Eng., Shimane Univ.) ○WATABE, Hajime; SHIRATORI, Hideo; KUBO, Yasuo
- 2G4-40** Sequential 1,3-Dipolar Cycloaddition/Aromatization Reaction Using Photooxidative Method (Gifu Pharm. Univ.) ○FUJIYA, Akitoshi; TANAKA, Masanori; YAMAGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika
- 2G4-41** Development of Photoaddition Reaction of Tetrahydrofuran to Allylic Alcohols (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○WATANABE, Yasutaka; SAKAI, Takahiro; UKAJI, Yutaka
- 2G4-42** Addition of Anion Formed by Photoinduced Decarboxylation of Carboxylic Acids Having Electron-withdrawing Group to Aldehyde (Univ. of Fukui Graduate School of Engineering) ○KUMAGAI, Yuta; YOSHIMI, Yasuharu

2G4-43 A Study on photochemical [2+2] cycloaddition of allylamine derivatives (Grad. Sch. Sci., Hiroshima Univ.) ○UCHIHASHI, Kengo; ABE, Manabu

2G4-44 Photochemical Amide Formation of Aromatic Boronate Derivatives with Aliphatic Amines (Grad. Sch. Fac. Sci. Eng., Shimane Univ.) ○SHIRATORI, Hideo; FUJIWARA, Ryoji; NAGAI, Yuki; KUBO, Yasuo

Chair: FUKUHARA, Gaku (16 : 30~17 : 30)

* 16:20-16:30: interval for laptop PC connection.(2G4-46, 2G4-47, 2G4-48, 2G4-49, 2G4-50, 2G4-51)

2G4-46 Radical Cyclization of Alicyclic Carboxylic Acids to Aromatic Rings via Photoinduced Decarboxylation (Univ. of Fukui Graduate School of Engineering) YAMADA, Tomoaki; ○YOSHIMI, Yasuharu

2G4-47 Hydrolysis and Photoinduced Decarboxylative Radical Reactions of Aliphatic Esters (Univ. of Fukui Graduate School of Engineering) ○SAITO, Hikaru; YOSHIMI, Yasuharu

2G4-48 Intermolecular cyclopropanation using iodine and visible light via carbon-iodine bond cleavage (Gifu Pharm. Univ.) ○USAMI, Kaoru; YAMAGACHI, Eiji; TADA, Norihiro; ITOH, Akichika

2G4-49 Photochemical radical initiation abilities of iridium cyclometalated complexes having an oxime ester group (Fac. Eng., Chiba Univ.) ○WATAHAKI, Kosuke; URABE, Hikaru; YAGAI, Shiki; KITAMURA, Akihiko; KARATSU, Takashi

2G4-50 Reaction of Triplet (9-Anthryl)(phenyl)carbenes Protected by Triptycyl Groups (Grad. Sch. Eng., Mie Univ.; Mie Univ. Community-University Research Cooperation Center) ○TACHI, Minoru; HASHIMOTO, Yuichi; HIRAI, Katsuyuki; KITAGAWA, Toshikazu

2G4-51 Generation and Characterization of Triplet Di(9-anthryl)carbene Protected by Triptycyl Groups (Grad. Sch. Eng., Mie Univ.; Mie Univ. Community-University Research Cooperation Center) ○NAKAMURA, Ryota; HIRAI, Katsuyuki; KITAGAWA, Toshikazu

Saturday, March 28, AM

Chair: OHKUBO, Kei (10 : 00~10 : 50)

* 9:50-10:00: interval for laptop PC connection.(3G4-07, 3G4-08, 3G4-09, 3G4-10, 3G4-11)

3G4-07 Photoinduced Thioacetalization of Aldehydes with a Flavin Catalyst (The Univ. of Tokushima) ○MIHARA, Tomohiro; ARAKAWA, Yukihiko; MINAGAWA, Keiji; IMADA, Yasushi

3G4-08 Metal-Free Photoredox Reactions Catalyzed by Flavins (The Univ. of Tokushima) ○TAGAMI, Takuma; ARAKAWA, Yukihiko; MINAGAWA, Keiji; IMADA, Yasushi

3G4-09 Axial Ligand Adsorption of Aluminum Porphyrins on Semiconductor and Visible-Light-Induced Oxygenation (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) ○ONUKI, Satomi; YAMAMOTO, Daisuke; KUTTASSERY, Fazalurahman; MATHEW, Siby; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo

3G4-10* Photophysical and Electrochemical Properties of Tin Metalloporphyrins as Water Oxidation Catalyst (Urban Environmental Sci., Tokyo Metropolitan Univ.) ○THOMAS, Arun; YAMAMOTO, Daisuke; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo

3G4-11 Axial coordinated porphyrin complex/TiO₂ hybrid system for electron transfer system (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) ○YAMAMOTO, Daisuke; MATHEW, Siby; KUTTASSERY, Fazalurahman; ONUKI, Satomi; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo

Chair: YASUDA, Masahide (11 : 00~12 : 00)

* 10:50-11:00: interval for laptop PC connection.(3G4-13, 3G4-14, 3G4-15, 3G4-17)

3G4-13 Photooxygenation of Saturated Hydrocarbons with 2,3-Dichloro-5,6-dicyano-*p*-benzoquinone (Osaka Univ.; ALCA, JST) ○HIROSE, Kensaku; OHKUBO, Kei; FUKUZUMI, Shunichi

3G4-14 Reaction of cinnamionitrile with dimethylketene silyl acetal using alkylpyrene as a photosensitizer via photoinduced electron transfer (Grad. Sch. Sci., Eng., Tokyo Tech) ○MORISHITA, Naoya; KONISHI, Gen-ichi

3G4-15** Silicon Porphyrins as molecular catalyst for water activation (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) ○REMELLO, Sebastian Nybin; HIRANO, Takehiro; YAMAMOTO, Daisuke; ONUKI, Satomi; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo

3G4-17** Supramolecular Assemblies of Aluminum Porphyrins Through Weak Interactions and Confinement for Artificial Photosynthesis (Urban Environmental Sci., Tokyo Metropolitan Univ.) ○MATHEW, Siby; KUTTASSERY, Fazalurahman; YAMAMOTO, Daisuke; ONUKI, Satomi; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo

Asian International Symposium -Photochemistry-

Saturday, March 28, PM

Chair: Biju, Vasudevan P. (13 : 30~14 : 20)

3G4-28* Keynote Lecture Modelling optical features near metal nanostructures: Implications for surface-enhanced spectroscopy (Indian Institute of Science Education and Research Thiruvananthapuram India) Rotti

Srinivasamurthy Swathi (13:30~14:00)

3G4-31* Invited Lecture Design and Application of Functional Materials for Energy and Material Conversion (Tokyo Univ. of Science) Nakata, Kazuya (14:00~14:20)

Chair: Ueno, Kosei (14 : 20~15 : 10)

3G4-33* Keynote Lecture Femtosecond laser Micro-Nano-Fabrication: A universal machine tool for diverse materials (Jilin Univ.) Qidai Chen (14:20~14:50)

3G4-36* Invited Lecture Dynamic Hybridization of Polythiophene with Glucans. Mechanism Elucidation (Osaka Univ.) Fukuhara, Gaku (14:50~15:10)

Chair: Itoh, Tamitake (15 : 20~16 : 00)

3G4-39* Invited Lecture Development of molecular systems for sing switchable circularly polarized light (NAIST) Yuasa, Junpei (15:20~15:40)

3G4-41* Invited Lecture Spatio and temporal properties of plasmons revealed by advanced imaging techniques (Waseda Univ.) Imura, Kohei (15:40~16:00)

Chair: Oshikiri, Tomoya (16 : 00~17 : 00)

3G4-43* Invited Lecture Control of Exciton Dynamics in a Single Quantum Dot Using Metal Nanostructures (Kwansei Gakuin Univ.) Masuo, Sadahiro (16:00~16:20)

3G4-45* Invited Lecture Anomalous diffusion of guest molecules in polymer thin films as revealed by three-dimensional single-molecule tracking (Osaka Univ.) Ito, Syoji (16:20~16:40)

3G4-47* Invited Lecture Photoelectrochemical Characterization of Ag-based Solid Solution Nanocrystals for Solar Energy Conversion (Nagoya Univ.) Kameyama, Tatsuya (16:40~17:00)

Room H1

Bldg.2 222B

Physical Chemistry -Properties-

Thursday, March 26, AM

Optical properties · dielectric properties

Chair: IMURA, Kohei (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1H1-01, 1H1-03, 1H1-04, 1H1-05)

1H1-01* Carrier Transfer Dynamics in CdSe Nanoplatelets-Molecular Acceptor Complexes (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○OKUHATA, Tomoki; TAMAI, Naoto

1H1-03 Effects of Size and Number of Layers on Auger Recombination Dynamics of CdSe Nanoplatelets (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○USUI, Yuki; OKUHATA, Tomoki; TAHARA, Kazuaki; TAMAI, Naoto

1H1-04 Synthesis and Electron Transfer Dynamics of Pt Nanoparticle-attached CdSe Nanoplatelets (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○MAEDA, Kingo; USUI, Yuki; TAHARA, Kazuaki; OKUHATA, Tomoki; TAMAI, Naoto

1H1-05* Ultrafast dynamics of excimers of dicyano aurate(I) complexes in aqueous solutions and their nuclear wavepacket motions (Grad. Sch. Sci. Eng., Univ. of Toyama) ○IWAMURA, Munetaka; WAKABAYASHI, Ryo; MAEBA, Junichi; NOZAKI, Koichi; TAKEUCHI, Satoshi; TAHARA, Tahei

Chair: IWAMURA, Munetaka (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1H1-08, 1H1-09, 1H1-10, 1H1-12)

1H1-08 Fabrication of hexagonal arranged gold nanoparticle assembly and its application to surface enhanced spectroscopy (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○UCHIDA, Takako; IMURA, Kohei

1H1-09 Fabrication of gold nanoparticles thin film and its application to plasmon induced photochemical processes (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○NISHIKADO, Yui; MIZOBATA, Hidetoshi; IMURA, Kohei

1H1-10* Quantum wavepacket dynamics study of strong vibronic coupling effects on singlet fission (Grad. Sch. Eng. Sci., Osaka Univ.) ○ITO, Soichi; ITO, Naoto; NAKANO, Masayoshi

1H1-12* Theoretical study on structural dependences of third-order nonlinear optical property for phenalenyl radical dimers (Dept. of Chem. Eng., NNCT) ○YONEDA, Kyohei; FUKUDA, Kotaro; MATSUI, Hiroshi; MINAMIDA, Yuka; NAKANO, Masayoshi

Chair: NAMAI, Asuka (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1H1-15, 1H1-16, 1H1-17, 1H1-18, 1H1-19)

1H1-15 The Effect of Substrates on Ultrafast Carrier Dynamics of Graphene

(Sch. Sci. Tech., Kwansai Gakuin Univ.) ○YAMADA, Atsushi; SHIGEMASA, Hidehumi; KUTSUMA, Yasunori; KANEKO, Tadaaki; TAMAI, Naoto

1H1-16 Withdrawn

1H1-17 Introduction of Chiral Structure into Ferroelectric Alkylamide-Substituted Pyrene Derivative (Grad. Sch. Eng., Tohoku Univ.; IMRAM, Tohoku Univ.) ○ANETAI, Hayato; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

1H1-18 Liquid crystallinity, photophysical, and dielectric properties of tetraphenylethylene with long alkylamide chains (IMRAM, Tohoku Univ.) ○TAKEDA, Takashi; ANETAI, Hayato; AKUTAGAWA, Tomoyuki

1H1-19** Dense Formate Frameworks with an ABX₃ Perovskite-like Architecture: Tuning Properties by A-site Substitution (Grad. Sch. Sci., Tohoku Univ.; The University of Cambridge; CREST, JST) ○KUMAGAI, Shohei; KIESLICH, Gregor; CHEETHAM, Anthony K; TAKAISHI, Shinya; YAMASHITA, Masahiro

Thursday, March 26, PM

Surface • thin films • nano materials

Chair: KIGUCHI, Manabu (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1H1-28, 1H1-30, 1H1-31, 1H1-32, 1H1-33)

1H1-28* Conversion of -OR to -SR' anchoring group in porphyrin arrays and their single molecule electronic properties (Grad. Sch. Sci., Osaka Univ.) ○TAMAKI, Takashi; YAMADA, Ryo; TADA, Hirokazu; OGAWA, Takuji

1H1-30 Theoretical study on the spin polarization effects on the single-molecule conductivity of polyacenes (Grad. Sch. Eng. Sci., Osaka Univ.) ○TAKEBAYASHI, Taku; KITAGAWA, Yasutaka; SHIGETA, Yasuteru; OKUMURA, Mitsutaka; NAKANO, Masayoshi

1H1-31 Formation of polyoxometalate nanostructure and electronic property (Grad. Sch. Sci., Osaka Univ.) ○KISHIMOTO, Hiroyuki; YAMAGUCHI, Harumasa; CHE, Dock-chil; MATSUO, Haruka; TSUNASHIMA, Ryo; MATSUMOTO, Takuya

1H1-32 Control of Exciton Dynamics in a Single Quantum Dot by a Silver-coated AFM Tip (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TAKATA, Hiroki; MASUO, Sadahiro

1H1-33 Evaluation of exciton dynamics in a single quantum dot - metal nanowire system (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○YAMANAKA, Akihiro; MASUO, Sadahiro

Chair: MASUO, Sadahiro (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1H1-35, 1H1-37, 1H1-38, 1H1-39, 1H1-40)

1H1-35* Photochemical Surface Passivation of Semiconductor Quantum Dots for Blinking Suppression and Photoluminescence Enhancement (HRI, AIST; Grad. Sch. Eng., Kagawa Univ.) ○HAMADA, Morihiko; TAKENOKOSHI, Norifumi; WAKIDA, Shin-ichi; NAKANISHI, Shunsuke; BIJU, Vasudevanpillai

1H1-37 Formation and electron transport properties of pyrazine molecular junctions using Au, Ag, and Cu electrodes (Grad. Sch. Sci., Eng., Tokyo Tech) ○TAKAHASHI, Ryoji; KANEKO, Satoshi; KIGUCHI, Manabu

1H1-38 Fine structure of charge distribution in organic photovoltaic thin film (Sch. Sci., Osaka Univ.) ○ARAKI, Kento; IE, Yutaka; ASO, Yoshio; MATSUMOTO, Takuya

1H1-39 Low-Energy Inverse Photoemission Study of Image Potential States of Shuttlecock-shaped Phthalocyanines on HOPG (ICR, Kyoto Univ.; ICR, Kyoto Univ.) ○YOSHIDA, Hiroyuki; SHIRAIISHI, Ryo; SATO, Naoki

1H1-40 Molecular orientation-dependent ionization energy and electron affinity of pentacene-6,13-dione thin films (ICR, Kyoto Univ.) ○YAMADA, Kazuto; YOSHIDA, Hiroyuki; SATO, Naoki

Chair: YOSHIDA, Hiroyuki (15 : 50~16 : 40)

* 15:40-15:50: interval for laptop PC connection.(1H1-42, 1H1-43, 1H1-44, 1H1-45)

1H1-42 (1×1)TiO₂ ultrathin film on Ag(110):NEXAFS study (Grad. Sch. Sci., Rikkyo Univ.) ○SUGIZAKI, Yuichi; ISHIDA, Shuhei; NAKAMURA, Takuya; EDAMOTO, Kazuyuki; OZAWA, Ken-ichi

1H1-43 Electrical conductivity measurement for Bi₂212 copper oxide high-T_c superconductor with and without alkali metal adsorption (GREEN, NIMS) ○SAKAI, Chikako; OHNISHI, Yohei; KUWAKO, Atsushi; YOSHIKAWA, Masaaki; TAKEDA, Sakura; DAIMON, Hiroshi

1H1-44 Shear Stress Effect on Photochromism of Diarylethene CMTE (Tokyo Univ. of Sci., Yamaguchi Graduate School of Science and Engineering) ○INOUE, Takeshi; FUNASAKO, Yusuke; INOKUCHI, Makoto

Carbon materials

1H1-45* New physical chemistry of three dimensional nanoporous graphene (WPI-AIMR, Tohoku Univ.) ○ITO, Yoshikazu; FUJITA, Takeshi; CHEN, Mingwei

Chair: FUJIMORI, Toshihiko (16 : 50~17 : 30)

* 16:40-16:50: interval for laptop PC connection.(1H1-48, 1H1-50)

1H1-48* Direct Synthesis of Linear Diamondoid-polymers inside Carbon Nanotubes from Bridgehead-halogenated Diamondoids (Grad. Sch. Sci., Nagoya Univ.) ○NAKANISHI, Yusuke; OMACHI, Haruka; FOKINA, Natalie A; KITAURA, Ryo; SCHREINER, Peter R; DAHL, Jeremy E. P; CARLSON, Robert M. K; SHINOHARA, Hisanori

1H1-50** Automatic Gradient Elution Gel Filtration for Separation of Metallic and Semiconducting Single-wall Carbon Nanotubes (Grad. Sch. Sci., Nagoya Univ.) ○THENDIE, Boanerges; OMACHI, Haruka; KITAURA, Ryo; MIYATA, Yasumitsu; SHINOHARA, Hisanori

Friday, March 27, AM

Electrical conductors • magnetism

Chair: NAKAMURA, Toshikazu (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2H1-01, 2H1-03, 2H1-04, 2H1-05)

2H1-01* Photo-induced doping in a molecular conductor utilizing photochromism (Institute for Molecular Science; RIKEN) ○SUDA, Masayuki; KATO, Reizo; YAMAMOTO, Hiroshi

2H1-03 Electrical and Magnetic Behavior of Copper(II) Dithiolen Complex Salts with Photo-controllable Spin Distribution (Grad. Sch. Sci., Eng., Ehime Univ.) ○NOMA, Hiroki; OHARA, Keishi; YAMAMOTO, Takashi; NAITO, Toshio

2H1-04 Mechanism of high photoconductivity of NMQ[Ni(dmit)₂] (Grad. Sch. Sci., Eng., Ehime Univ.) ○NAGAYAMA, Naoki; OHARA, Keishi; YAMAMOTO, Takashi; NAITO, Toshio

2H1-05* Magnetism and Conductivity of the π-d Mixed Crystal (DIETSe)₂-FeBr₃Cl (Grad. Sch. Sci., Kyoto Univ.; Nagaoka Univ. of Tech.; JST-CREST; NHMFL) ○KAWAGUCHI, Genta; MAESATO, Mitsuhiro; KOMATSU, Tokutaro; IMAKUBO, Tatsuro; KITAGAWA, Hiroshi; GRAF, David; KISWANDHI, Andhika; BROOKS, James S.

Chair: AKUTSU, Hiroki (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2H1-08, 2H1-09, 2H1-10, 2H1-11, 2H1-12, 2H1-13)

2H1-08 Magnetic Resonance Investigation of Charge and Spin State in Oxo-Bridged Dinuclear Ruthenium Mixed-Valence Complex (Institute for Molecular Science Department of Materials Molecular Science) ○NAKAMURA, Toshikazu; YOSHIDA, Masaki; KONDO, Mio; MASAOKA, Shigeyuki

2H1-09 Crystal Structure and Physical Properties of Single-component Molecular Conductor, [Zu(tmdt)₂] with a Tetrahedral Geometry (Coll. Hum. Sci., Nihon Univ.) ○ZHOU, Biao; OGURA, Satomi; LIU, Qizhi; KOBAYASHI, Akiko

2H1-10 Development of a molecular conductor composed of iron(III) tetrabenzoporphyrin as a new π-d system (Grad. Sch. Sci. Technol., Kumamoto Univ.; Grad. Sch. Sci., Osaka Univ.; IMRAM, Tohoku Univ.) ○NISHI, Miki; MATSUDA, Masaki; IKEDA, Mitsuo; HANASAKI, Noriaki; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

2H1-11 Electrochemical Crystallization of Axially Substituted Porphyrin Conductors (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○KUROKAWA, Masashi; INABE, Tamotsu; HARADA, Jun; TAKAHASHI, Yukihiko; HASEGAWA, Hiroyuki

2H1-12 Synthesis, structure and physical properties of transition metal thiolate complexes using TTF derivatives with a pyridine ring (Osaka Pref. Univ. Graduate School of Science) ○OKUNO, Ryota; FUJIWARA, Hideki

2H1-13 Development of new multifunctional materials using TTF derivatives containing stable organic radicals (Osaka Pref. Univ. Graduate School of Science) ○HORIKIRI, Kazuki; FUJIWARA, Hideki

Chair: YAMOCHI, Hideki (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2H1-15)

2H1-15 CSJ Award for Creative Works Systematic Study of Electronic Structures in Organic Conductors and the Characteristic Physical Properties (Grad. Sch. Sci., Eng., Tokyo Tech) ○MORI, Takehiko

Friday, March 27, PM

Chair: MATSUDA, Masaki (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2H1-28, 2H1-29, 2H1-30, 2H1-31, 2H1-32, 2H1-33)

2H1-28 Synthesis, Structures, and Physical Properties of Novel Organic Conductors based on a Bis-catechol-fused TTF Derivative (ISSP, The Univ. of Tokyo) ○YOSHIDA, Junya; UEDA, Akira; MORI, Hatsumi

2H1-29 Deuterium and Electron Transfer-based Phase Transition Phenomenon in a Hydrogen-bonded Purely Organic Conductor Composed of a Selenium-incorporated Catechol-fused TTF Derivative (ISSP, The Univ. of Tokyo; Grad. Sch. Sci., Tokyo Univ. of Sci.; KEK) ○UEDA, Akira; HATAKEYAMA, Akari; ENOMOTO, Masaya; KUMAI, Reiji; MURAKAMI, Youichi; MORI, Hatsumi

2H1-30 Preparation, structural and physical properties of (TP-EDTT)₂Br (LTM, Kyoto Univ.) ○ISHIKAWA, Manabu; NAKANO, Yoshiaki;

URUICHI, Mikio; OTSUKA, Akihiro; YAMOCHI, Hideki

- 2H1-31** Organic field-effect transistors using charge-transfer complexes with structural phase transitions (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.)
○YOKOKURA, Seiya; TAKAHASHI, Yukihiko; HASEGAWA, Hiroyuki; HARADA, Jun; INABE, Tamotsu; MATSUSHITA, Michio; AWAGA, Kunio
- 2H1-32** FET characteristics and negative differential resistance of TTF-TCNQ in the Peierls transition phase (Sch. Sci., Nagoya Univ.) ○TONOUCHI, Daiki; MATSUSHITA, Michio; AWAGA, Kunio
- 2H1-33** Thermoelectric power measurements of molecular conductor β'' -(DODHT)₂X (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○OKANO, Hitomi; NISHIKAWA, Hiroyuki

Chair: MATSUSHITA, Michio-m. (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2H1-35, 2H1-36, 2H1-37, 2H1-39, 2H1-40)
- 2H1-35** Structures and properties of molecular conductors based on DSDTF with ethylenedioxy group (Grad. Sch. Sci., Eng., Ehime Univ.) ○OKA, Yusuke; SHIRAHATA, Takashi; MISAKI, Yohji
- 2H1-36** Preparation of Charge-transfer Salts of 2,4-disulfoanilinium mono-anion and its PO radical derivative dianion (Grad. Sch. Sci., Osaka Univ.)
○AKUTSU, Hiroki; NAKAZAWA, Yasuhiro
- 2H1-37*** sub-nanospace templated synthesis of one-dimensional conductors using chalcogen elements (Shinshu Univ. Center for Energy and Environmental Science; JST, PRESTO) ○FUJIMORI, Toshihiko; KANEKO, Katsumi
- 2H1-39** Conduction Properties at the Contact Interface between Phthalocyanine Nickel (Ni(Pc)) and Tetracyanoquinodimethane (TCNQ) Derivatives Single Crystals (Sch. Sci., Hokkaido Univ.) ○SHIMADA, Takuro; TAKAHASHI, Yukihiko; HASEGAWA, Hiroyuki; HARADA, Jun; INABE, Tamotsu
- 2H1-40** Cation and Anion Recognitions of Quinoxalinone derivative (IMRAM, Tohoku Univ.) ○NAKANE, Yuta; TKEDA, Takashi; HOSHINO, Norihisa; SAKAI, Ken-ichi; AKUTAGAWA, Tomoyuki

Chair: FUJITA, Wararu (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2H1-42, 2H1-44, 2H1-45, 2H1-46, 2H1-47)
- 2H1-42*** Synthesis of rhodium substituted epsilon-iron oxide nanomagnet exhibiting gigantic coercive field and high-frequency millimeter wave absorption (Grad. Sch. Sci., The Univ. of Tokyo) ○NAMAI, Asuka; YOSHIKIYO, Marie; OHKOSHI, Shin-ichi
- 2H1-44** Construction of supramolecular structures by σ -hole on sulfur and physical properties of metalladithiolene complexes (Grad. Sch. Sci., The Univ. of Tokyo) ○OHDE, Chie; KUSAMOTO, Tetsuro; NISHIHARA, Hiroshi
- 2H1-45** Theoretical studies on magnetic interaction of TOT dimer (Grad. Sch. Sci., Osaka Univ.) ○KINOSHITA, Keiji; KAWAKAMI, Takashi; SAITO, Toru; YAMANAKA, Shusuke; OKUMURA, Mitsutaka
- 2H1-46** Theoretical investigation of magnetic interaction in organic spin systems by the DMRG-CAS method (Grad. Sch. Sci., Osaka Univ.)
○KAWAKAMI, Takashi; KINOSHITA, Keiji; SAITO, Toru; YAMANAKA, Shusuke; OKUMURA, Mitsutaka; SHOJI, Mitsuo; TAKANO, Yu; YAMAGUCHI, Kizashi
- 2H1-47** Carrier doping in a molecular spin ladder system using solid state ion exchange (Grad. Sch. Sci., Hiroshima Univ.) ○ICHIHASHI, Katsuya; NISHIHARA, Sadafumi; KONNO, Daisuke; MACHIDA, Ryo; KATO, Chisato; MARYUNINA, Kseniya; INOUE, Katsuya; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi

Saturday, March 28, AM

Liquid crystal · Liquid · Phase transition · others

Chair: TAKAISHI, Shinya (9 : 00 ~9 : 40)

- * 8:50-9:00: interval for laptop PC connection.(3H1-01, 3H1-02, 3H1-03, 3H1-04)
- 3H1-01** Structural Phase Transition of Hydrogen-bonding Molecular Crystals of (Imidazolium)(3-Hydroxy-2-quinoxalinecarboxylate) through H₂O Adsorption-Desorption (Grad. Sch. Eng., Tohoku Univ.) ○YOSHII, Yuya; SAKAI, Ken-ichi; HOSHINO, Norihisa; TAKEDA, Takashi; NORO, Shin-ichiro; NAKAMURA, Takayoshi; AKUTAGAWA, Tomoyuki
- 3H1-02** Synthesis and Functions of Tetraalkylamide-Substituted Dibenzo[18] crown-6 Derivative (Grad. Sch. Eng., Tohoku Univ.) ○KIMURA, Yuku; KOBAYASHI, Takayuki; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki
- 3H1-03*** Single-molecule fluorescence detections of extracellular and intracellular transport of nanobioconjugates (AIST Health Research Institute)
○BIJU, Vaudevan; WAKIDA, Shinichi; SUZUKI, Yasuhiro
- 3H1-04** Two-photon induced photoluminescence from single gold nanoparticle studied by optical microscopy (Sch. Advanced Sci. Eng., Waseda Univ.)
○MA, Shomin; IMURA, Kohei

Saturday, March 28, PM

Chair: MIZUNO, Motohiro (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(3H1-25, 3H1-26, 3H1-27, 3H1-28, 3H1-29, 3H1-30)
- 3H1-25** Discotic Liquid Crystals of Organic Transition Metal Complexes (115): Effect of Chain Length on Mesomorphism of PcCu(II) having an Alkoxy Group at the m-Position of Phenoxy Groups (Fac. Textile Sci. Technol., Shinshu Univ.) ○NAKAMURA, Hiromu; YOSHIOKA, Miho; IGARASHI, Kensaku; SATO, Hiroyuki; OHTA, Kazuchika
- 3H1-26** Discotic Liquid Crystals of Organic Transition Metal Complexes (116): Synthesis and Alignment of Dyads based on alkylthio-substituted Pc and C60 Linked by Vanillin or Isovanillin (Grad. Sch. Sci. Technol., Shinshu Univ.) ○YAJIMA, Shin-nosuke; WATARAI, Ayumi; OHTA, Kazuchika
- 3H1-27** Synthesis of Novel Discotic Liquid Crystals based on 3,5-Dicyano-2,4,6-trisubstituted-pyridine and Effect of the Number of Peripheral Chains on their Mesomorphism (Grad. Sch. Sci. Technol., Shinshu Univ.) ○YATABE, Masashi; ONO, Kenta; OHTA, Kazuchika
- 3H1-28** Study on molecular orientation of the chiral nematic liquid crystal exhibiting blue phases by polarized microscopic FT-IR spectroscopy (Grad. Sch. Nat. Sci., Nagoya City Univ.) ○MATSUMURA, Masanori; KATAYAMA, Norihisa
- 3H1-29** Effects of Substituents on the Thermal Properties of Ionic Liquids Based on Ruthenium Sandwich Complexes (Sch. Sci., Kobe Univ.)
○HIGASHI, Tomomi; UEDA, Takahiro; KOMURASAKI, Aina; MOCHIDA, Tomoyuki
- 3H1-30** Reactivity Control of Photo-Curable Ionic liquids Based on Ruthenium Sandwich Complexes (Grad. Sch. Sci., Kobe Univ.) ○UEDA, Takahiro; FUNASAKO, Yusuke; MOCHIDA, Tomoyuki

Chair: MOCHIDA, Tomoyuki (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(3H1-32, 3H1-34, 3H1-35, 3H1-36, 3H1-37)
- 3H1-32*** A Universal Equation of State for Hydrocarbons (Hosei Univ.)
○KATAOKA, Yosuke; YAMADA, Yuri
- 3H1-34** Interactions between Imidazolium-based Ionic Liquid and Molecular Liquids Depending on Their Electron-donicity (Grad. Sch. Sci. Eng., Saga Univ.; University of Lille 1 Laboratoire de Spectrochimie Infrarouge et Raman; MURORAN INST. OF TECH.) ○TAKAMUKU, Toshiyuki; HOKE, Hiroshi; IDRISSE, Abdenacer; MAREKHA, Bogdan; MOREAU, Myriam; HONDA, Yusuke; UMECKY, Tatsuya; SHIMOMURA, Takuya
- 3H1-35** Interaction site between the SCN⁻ ion and protein aggregation due to the intermolecular β -sheet structure (Dept. Appl. Chem., Nat. Def. Acad.)
○YAMAGUCHI, Erika; TAKEKIYO, Takahiro; ABE, Hiroshi; YOSHIMURA, Yukihiro
- 3H1-36** Hydration structure of hydrated polypeptides and proteins by X-ray diffraction (Fac. Sci., Fukuoka Univ.) ○YOSHIDA, Koji; YAMAGUCHI, Toshio
- 3H1-37** Quantitative estimation of concentration of NaCl aqueous solution in SBA-16 mesopore by NMR method (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○MIYATOU, Tatsuya; OHASHI, Ryutarou; IDA, Tomonori; MIZUNO, Motohiro; KITAKA, Shigeharu

Room H2
Bldg.2 242A

Physical Chemistry -Chemical Kinetics and Dynamics-

Thursday, March 26, AM

Chair: MIYASAKA, Hiroshi (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1H2-01, 1H2-03, 1H2-04, 1H2-05)
- 1H2-01*** FTIR spectroelectrochemical measurement of the redox potential of the secondary quinone QB in photosystem II (Grad. Sch. Sci., Nagoya Univ.) ○KATO, Yuki; NAGAO, Ryo; NOGUCHI, Takumi
- 1H2-03** Pressure effect on the reaction of the BLUF photoreceptor SyPixD (Grad. Sch. Sci., Kyoto Univ.) ○NAKAJIMA, Tsubasa; KUROI, Kunisato; OKAJIMA, Koji; IKEUCHI, Masahiko; TOKUTOMI, Satoru; TERAZIMA, Masahide
- 1H2-04** Time-resolved study of a blue-light receptor protein: phototropin LOV2 kinase (Grad. Sch. Sci., Kyoto Univ.) ○TAKAKADO, Akira; NAKASONE, Yusuke; OKAJIMA, Koji; TOKUTOMI, Satoru; TERAZIMA, Masahide
- 1H2-05*** Spectroscopic study on the Na⁺ transport mechanisms of sodium pump rhodopsin (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○INOUE, Keiichi; KATO, Yoshitaka; YOSHIZUMI, Rei; KANDORI, Hideki

Chair: TERAZIMA, Masahide (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1H2-08, 1H2-09, 1H2-10, 1H2-11, 1H2-12, 1H2-13)

1H2-08 Alkyl chain length dependence of singlet oxygen lifetime in morpholinium based ionic liquids (Grad. Sch. Sci., Eng., Tokyo Tech) ○YOSHIDA, Tsuyoshi; KAWAI, Akio; KHARA, Chandra Dinesh; SAMANTA, Anunay

1H2-09 The photochemical reaction of amino acid residues that induces protein crystallization and search for template molecules (Grad. Sch. Sci. Tech., Gunma Univ.) ○SUGIYAMA, Kaori; HORIUCHI, Hiroaki; OKUTSU, Tetsuo

1H2-10 Study of intermolecular hydrogen bonding of urea derivatives having double anthryl groups (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○MATSUMOTO, Hisato; NISHIMURA, Yoshinobu; ARAI, Tatsuo

1H2-11 Photoisomerization of water-soluble dendrimer having 3,3'-bis(styryl)biphenyl at the core (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SAKURAI, Hiroya; ARAI, Tatsuo

1H2-12 Ultrafast energy transfer dynamics of β -carotene in photosystem II (PSII) (Grad. Sch. Eng. Sci., Osaka Univ.) ○YONEDA, Yusuke; KATAYAMA, Tetsuro; NAGASAWA, Yutaka; MIYASAKA, Hiroshi; UMENA, Yasufumi

1H2-13 Photoconversion process of pentacenediketone derivatives in the crystalline phase (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○MIYAMOTO, Yuya; OE, Mariko; AOTAKE, Tatsuya; SUZUKI, Mitsuharu; YAMADA, Hiroko; MASUO, Sadahiro

Chair: ARAI, Tatsuo (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1H2-15, 1H2-17, 1H2-18, 1H2-19, 1H2-20)

1H2-15* Development of laser trapping method enabling spatio-temporal control of molecular assembling (National Chiao Tung University Department of Applied Chemistry and Institute of Molecular S) ○YUYAMA, Ken-ichi; SUGIYAMA, Teruki; MASUHARA, Hiroshi

1H2-17 Radical Ions of Cycloparaphenylenes: Size-Dependence Contrary to the Neutral Molecules (ISIR, Osaka Univ.; ICR, Kyoto Univ.) ○FUJITSUKA, Mamoru; TOJO, Sachiko; IWAMOTO, Takahiro; KAYAHARA, Eiichi; YAMAGO, Shigeru; MAJIMA, Tetsuro

1H2-18 Analysis of Electrochemical Behavior at Room-temperature Ionic Liquid / Natural Graphite Negative Electrode Interface (Grad. Sch. Eng., Iwate Univ.) ○UI, Koichi; SATO, Hiroki; KAROUJI, Tomohiro; TOWADA, Jun; KADOMA, Yoshihiro; TAKEGUCHI, Tatsuya

1H2-19[#] Electrochemically H₂O₂ production by Nitrogen-doped Carbons via Oxygen Reduction Reaction (Grad. Sch. Eng., The Univ. of Tokyo) ○WANG, Song; ZHAO, Yong; KAMIYA, Kazuhide; NAKANISHI, Shuji; HASHIMOTO, Kazuhito

1H2-20 Electrochemical analyses of platinum-modified covalent triazine frameworks as a methanol-tolerant oxygen reduction electrocatalysts (Fac. Eng., The Univ. of Tokyo) ○YAMAGUCHI, Shingi; KAMAI, Ryo; KAMIYA, Kazuhide; HASHIMOTO, Kazuhito; NAKANISHI, Shuji

Thursday, March 26, PM

Chair: FUJITSUKA, Mamoru (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1H2-28, 1H2-29, 1H2-30, 1H2-31, 1H2-32, 1H2-33)

1H2-28 Electrochemical intercalation of TFSI anion into graphitic carbon (Fac. Eng., Kyushu Univ.) ○KURIHARA, Takuya; FUKUDA, Taro; IDA, Shintaro; ISHIHARA, Tatsumi

1H2-29 Examination of the Li air battery using the gel electrolyte (Fac. Eng., Kyushu Univ.) ○EGUCHI, Masato; HAGIWARA, Hidehisa; IDA, Shintaro; ISHIHARA, Tatsumi

1H2-30 Examination of Microwave Effects on Electron Transfer at interface of electrode (Grad. Sch. Sci., Eng., Tokyo Tech) ○KAWAMURA, Shinichiro; KISHIMOTO, Fuminao; MOCHIZUKI, Dai; MAITANI, Masato; SUZUKI, Eiichi; WADA, Yuji

1H2-31 Microwave Effect to Control Growth Process of Nanoparticles on Substrate (Grad. Sch. Sci., Eng., Tokyo Tech) ○YAMADA, Takuya; MOCHIZUKI, Dai; MAITANI, Masato; SUZUKI, Eiichi; WADA, Yuji

1H2-32 Chemotactic behavior of a liquid droplet: (1) Sending and escape motion against an unfavorable gas (Fac. Life Med. Sci., Doshisha Univ.; Fac. Sci., Ochanomizu Univ.; Dokkyo Med. Univ. Chemistry) ○SAKUTA, Hiroki; MAGOME, Nobuyuki; MORI, Yoshihito; YOSHIKAWA, Kenichi

1H2-33 Chemotactic behavior of a liquid droplet: (3) Response to pH jump by autocatalytic reaction (Dokkyo Med. Univ. Dept. Chem.; Fac. Sci., Ochanomizu Univ.; Grad. Sch. Life Med. Sci., Doshisha Univ.) ○MAGOME, Nobuyuki; SAKUTA, Hiroki; UMEZAWA, Noriko; OKUDA, Tatsuya; MORI, Yoshihito; YOSHIKAWA, Kenichi

Chair: NAKATA, Satoshi (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1H2-35, 1H2-37, 1H2-38, 1H2-39)

1H2-35* Catalytic micromotors propelled by consuming alcohol as fuel (Fac. Sci. Eng., Doshisha Univ.) ○YAMAMOTO, Daigo; TAKADA, Tsuyoshi; TACHIBANA, Masashi; SHIOI, Akihisa; YOSHIKAWA, Kenichi

1H2-37 Creating novel type of DC Micro-Motor without Switching Device

(Fac. Life Med. Sci., Doshisha Univ.; Fac. Sci. Eng., Doshisha Univ.)

○MORI, Seori; YAMAMOTO, Ryota; MIKI, Masako; YAMAMOTO, Daigo; SHIOI, Akihisa; YOSHIKAWA, Kenichi

1H2-38 Motion of a float on an oil/water interface depending on cation species (Fac. Sci. Eng., Doshisha Univ.) YASUI, Daisuke; YAMAMOTO, Daigo; ○SHIOI, Akihisa

1H2-39* Self-propelled motion of deformable micrometer-sized oil droplets (Grad. Sch. Arts and Sci., The Univ. of Tokyo; Grad. Sch. Sci., Chiba Univ.; PRESTO, JST) ○BANNO, Taisuke; ASAMI, Arisa; KITAHATA, Hiroyuki; TOYOTA, Taro

Chair: MAGOME, Nobuyuki (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1H2-42, 1H2-43, 1H2-45, 1H2-46)

1H2-42 Bifurcation Phenomena of oscillatory motion of a camphor boat depending on the position of a camphor disk (Grad. Sch. Sci., Hiroshima Univ.) ○YOSHII, Miyu; NAKATA, Satoshi; SUEMATSU, Nobuhiko

1H2-43* Dynamic pattern formation of camphor particles (Grad. Sch. Sci., Hiroshima Univ.) ○MATSUDA, Yui; SUEMATSU, Nobuhiko; KITAHATA, Hiroyuki; IKURA, Yumihiko; NISHIMORI, Hiraku; NAKATA, Satoshi

1H2-45 The dynamics of chemical wave on a local pulse irradiation (Grad. Sch. Sci., Hiroshima Univ.) ○SUZUKI, Shogo; NAKATA, Satoshi; EZAKI, Takato; KITAHATA, Hiroyuki; NISHI, Kei; NISHIURA, Yasumasa

1H2-46* Self-propelled droplets coupled with chemical oscillatory reaction (Grad. Sch. Adv. Mathematics Sci., Meiji Univ.) ○SUEMATSU, Nobuhiko; ITO, Katsura; AMEMIYA, Takashi; NAKATA, Satoshi; MORI, Yoshihito

Chair: HONDA, Kazuhiro (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1H2-49, 1H2-50, 1H2-52, 1H2-53, 1H2-54)

1H2-49 Mode Bifurcation of reciprocating motion of a butyl salicylate droplet on a SDS solution (Grad. Sch. Sci., Hiroshima Univ.) ○SOGABE, Yoshimi; NAKATA, Satoshi; TANAKA, Shinpei

1H2-50* Structural analysis of alpha-gel that induces blebbing motion of oil-water interface (Fac. Sci., Tokyo Univ. of Sci.) ○SUMINO, Yutaka; HONDA, Takuya; SAITO, Takanori; HISHIDA, Mafumi

1H2-52* Analysis of the Intermittent Oscillatory Behavior that Occurs in the Acrylamide Added Belousov-Zhabotinsky Reaction System (Fac. Sci. Tech., Keio Univ.) ○FURUE, Yuka; OKANO, Kumihiko; ASAKURA, Kouichi

1H2-53 External stimulation-driven mode change in bacterial bioluminescence oscillation (Sch. Biosci. Biotech., TUT) ○SASAKI, Satoshi; HOSOKI, Mayuri; KATOH, Hiroshi; SATOH, Takuya; KIYONAGA, Yusuke

1H2-54 Time-dependent change of calcium phosphate Liesegang precipitation patterns. (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○KAMINAGA, Akiko

Chair: KAMINAGA, Akiko (18 : 10~18 : 30)

* 18:00-18:10: interval for laptop PC connection.(1H2-56, 1H2-57)

1H2-56 Decomposition of the prussian blue in the alkali aqueous solution (Fac. Eng., KAIT) ○HONDA, Kazuhiro

1H2-57 Spontaneous interfacial fluctuation and electrical potential oscillation in three-phase liquid membrane system (Fac. Eng., Kanagawa Univ.) ○NANZAI, Ben; TERASHITA, Daisuke; IGAWA, Manabu

Friday, March 27, AM

Chair: ITO, Syoji (9 : 00~9 : 50)

* 8:50-9:00: interval for laptop PC connection.(2H2-01, 2H2-02, 2H2-03, 2H2-04, 2H2-05)

2H2-01 Transient temperature elevation anthracene nanoparticles induced by intense nanosecond laser excitation (Fac. Eng., Ehime Univ.) ○KIHARA, Ryo; SHIKAMA, Kohta; ASAHI, Tsuyoshi

2H2-02 Transient temperature elevation of organic microcrystals in water by nanosecond pulse laser excitation (Grad. Sch. Sci., Eng., Ehime Univ.) ○SHIKAMA, Kohta; KIHARA, Ryou; ISHIKAWA, Takayuki; ASAHI, Tsuyoshi

2H2-03 Temperature dependence of fluorescence spectra of perylene nanocrystal (Grad. Sch. Sci., Eng., Ehime Univ.) ○SASAKI, Shino; ASAHI, Tsuyoshi

2H2-04 Reaction Dynamics of Diarylethene Nanoparticles Prepared by Reprecipitation Method (Grad. Sch. Sci., Eng., Ehime Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○ISHIBASHI, Yukihide; OGURA, Yumi; KATAYAMA, Tesuro; MIYASAKA, Hiroshi; ASAHI, Tsuyoshi

2H2-05 Nanoparticle formation of phthalocyanine and photochromism induced by nanosecond laser excitation (Grad. Sch. Sci., Eng., Ehime Univ.) ○ASAHI, Tsuyoshi; IMADA, Syusuke

Chair: ASAHI, Tsuyoshi (10 : 00~10 : 50)

* 9:50-10:00: interval for laptop PC connection.(2H2-07, 2H2-08, 2H2-10)

2H2-07 Single-Particle Photoluminescence Observation of Pt-Modified Au Nanorods (Grad. Sch. Sci., Kobe Univ.; ISIR, Osaka Univ.) ○TACHIKAWA, Takashi; ZHENG, Zhaoke; MAJIMA, Tetsuro

2H2-08[#] Light induced temperature increase of a single gold nanoparticle: driving thermophoretic movement and optofluidics (Sch. Eng. Sci., Osaka

Univ.) ○SETOURA, Kenji; ITO, Soyoji; MIYASAKA, Hiroshi

2H2-10* Dynamics of exciton-plasmon coupling states between J-aggregate and metal hybrid nanostructure (RIES, Hokkaido Univ.) ○UEHARA, Hiroyo; OSHIKIRI, Tomoya; UENO, Kosei; MISAWA, Hiroaki

Chair: YAMADA, Yusuke (11 : 00~11 : 50)

* 10:50-11:00: interval for laptop PC connection.(2H2-13, 2H2-14, 2H2-15, 2H2-16)

2H2-13 Development of an in-situ 3-dimensional XAFS imaging technique for polymer electrolyte fuel cells by limited-angle computed tomography (Innovation Res. Ctr. for Fuel Cells, The Univ. of Electro-Communications; RCMS, Nagoya Univ.) ○SEKIZAWA, Oki; URUGA, Tomoya; MATSUI, Hirotsugu; ISHIGURO, Nozomu; KITYAKARN, Sutasinee; IWASAWA, Yasuhiro; TADA, Mizuki

2H2-14 Three-dimensional imaging of the local structure of a Pt electrode catalyst under PEFC operating conditions by in situ CT-XAFS (RCMS, Nagoya Univ.; Spring-8 BL36XU) ○MATSUI, Hirotsugu; SEKIZAWA, Oki; ISHIGURO, Nozomu; URUGA, Tomoya; YOKOYAMA, Toshihiko; TADA, Mizuki

2H2-15 Imaging of Ce oxidation state in a Pt-attached $Ce_2Zr_2O_8$ catalyst particle by in situ scanning nano-XAFS (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.; Innovation Res. Ctr. for Fuel Cells, The Univ. of Electro-Communications; JASRI) ○ENOMOTO, Kaori; ISHIGURO, Nozomu; MATSUI, Hirotsugu; KITYAKARN, Sutasinee; SEKIZAWA, Oki; URUGA, Tomoya; TADA, Mizuki

2H2-16* Structural Kinetics Study of Pt_3M ($M=Co, Ni$) Alloy Cathode Electrocatalysts in PEFC by In situ Time-resolved XAFS (RCMS, Nagoya Univ.; IMS; Innovation Res. Ctr. for Fuel Cells, The Univ. of Electro-Communications; JASRI) ○ISHIGURO, Nozomu; KITYAKARN, Sutasinee; URUGA, Tomoya; SEKIZAWA, Oki; NAGASAWA, Kensaku; YOKOYAMA, Toshihiko; TADA, Mizuki

Friday, March 27, PM

Chair: TUKUDA, Tatsuya (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(2H2-25, 2H2-27, 2H2-29, 2H2-30)

2H2-25* Mechanistic Insights of Ligand Exchange Reaction in Thiolate-Protected Metal Clusters Studied by High-Resolution High-Performance Liquid Chromatography (Fac. Sci., Tokyo Univ. of Sci.) ○NIHORI, Yoshiki; MATSUZAKI, Mikio; KIKUCHI, Yoshihiro; NEGISHI, Yuichi

2H2-27* Synthesis and characterization of novel thiolate protected trimetallic clusters (Fac. Sci., Tokyo Univ. of Sci.) ○KURASHIGE, Wataru; SHARMA, Sachil; NOBUSADA, Katsuyuki; NEGISHI, Yuichi

2H2-29 Synthesis of size-controlled gold nanoparticles using hydroquinone (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○HIROTA, Tetsuya; SHIBATA, Kenichi; AMEMIYA, Takashi; ITOH, Kiminori

2H2-30 Synthesis of ring-shaped multi-nuclear Pt-thiolate complexes (Chem. Res. Lab., Tokyo Tech) ○ISHIHARA, Kentaro; TSUCHIYA, Shogo

Chair: NEGISHI, Yuichi (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(2H2-32, 2H2-34, 2H2-35, 2H2-36, 2H2-37)

2H2-32* Selective Optical Trapping of Metallic Nanoparticles with Gold Nanohole Arrays (Grad. Sch. Sci., Osaka City Univ.) ○SHOJI, Tatsuya; TSUBOI, Yasuyuki

2H2-34 Trapping a liquid micro-droplet generated in a vacuum (Grad. Sch. Sci., Kyushu Univ.) ○ANDO, Kota; ARAKAWA, Masashi; TERASAKI, Akira

2H2-35 Photodissociation spectroscopy of silver cluster cations: two-photon absorption manifested in large sizes (Grad. Sch. Sci., Kyushu Univ.) ○TOBITA, Kenichiro; ITO, Tomonori; KIYOMURA, Yuya; ARAKAWA, Masashi; TERASAKI, Akira

2H2-36 Photofragment-ion imaging from $(CO_2)_2^+$ using a linear-type tandem reflectron mass spectrometer (Sch. Sci., Tohoku Univ.) ○FUJIMOTO, Keita; YAMAZAKI, Kenichiro; OKUTSU, Kenichi; NAKANO, Motoyoshi; OHSHIMO, Keiji; MISAIZU, Fuminori

2H2-37 Studies on Oxidation of Transition Metal Cluster by using FT-ICR Mass Spectrometer (Grad. Sch. Eng., The Univ. of Tokyo) ○TOBARI, Yuta; OGASAWARA, Kazuki; SATO, Yoshinori; SAITO, Makoto; CHIASHI, Shohei; MARUYAMA, Shigeo; SUGAI, Toshiaki

Chair: TUKUDA, Tatsuya (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(2H2-39, 2H2-40, 2H2-41, 2H2-42, 2H2-43)

2H2-39 Control of Photoluminescence Property of Graphene Quantum Dots Derived from Single-walled Carbon Nanotubes (Fac. Sci., Toho Univ.) ○TAKAHASHI, Misaki; ○SUGAI, Toshiaki

2H2-40 Measurement on charges of particles by newly developed ion mobility system (Fac. Sci., Toho Univ.) ○HIROSHIBA, Yasuhiro; MATSUBAYASHI, Hironobu; MIMURO, Kazuki; JINNOUCHI, Ryota; ○SUGAI, Toshiaki

2H2-41 Photoelectrochemical catalysis by $SrTiO_3(100)$ decorated with size-selected platinum nanocluster co-catalysts: Size effect in photoelectro-oxidation co-catalysis (Fac. Sci. Tech., Keio Univ.; ERATO, JST; KiPAS)

○YAMANO, Yohei; ZHANG, Chuhan; KOBAYASHI, Ryota; EGUCHI, Toyoaki; TSUNOYAMA, Hironori; NAKAJIMA, Atsushi

2H2-42 Solution-phase catalysis of size-selected Pd/ $SrTiO_3$ nanoclusters: Size effect in Suzuki-Miyaura coupling reaction (Grad. Sch. Sci. Tech., Keio Univ.; ERATO, JST; KiPAS) ○KOBAYASHI, Ryota; EGUCHI, Toyoaki; TSUNOYAMA, Hironori; NAKAJIMA, Atsushi

2H2-43* Size Dependence of Low-Temperature Catalytic Activity of CO Oxidation Driven by Platinum Clusters Directly Bound to Silicon Substrate Surface (Toyota Technological Institute Cluster Research Laboratory) ○YASUMATSU, Hisato; FUKUI, Nobuyuki

Chair: SUGAI, Toshiaki (16 : 30~17 : 30)

* 16:20-16:30: interval for laptop PC connection.(2H2-46, 2H2-47, 2H2-48, 2H2-49, 2H2-50, 2H2-51)

2H2-46* Thermal reactivity of nitric oxide on cobalt cluster cations (The Univ. of Tokyo Grad. Sch. Arts and Sci., Dept. of Basic Sci.) ○KWIATKOWSKI, Michal Piotr; MIYAJIMA, Ken; MAFUNE, Fumitaka

2H2-47 O_2 release of $Mn_4O_m^+$ ($m=4-11$) clusters by temperature-programmed desorption and quantum chemical calculation (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KOYAMA, Kohei; KUDOH, Satoshi; MIYAJIMA, Ken; MAFUNE, Fumitaka

2H2-48 Reactivity of Ceria Clusters with NO Revealed by Temperature-programmed Desorption in the Gas Phase (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○NAGATA, Toshiaki; MIYAJIMA, Ken; MAFUNE, Fumitaka

2H2-49 Size-dependent reactions of silver-cobalt alloy cluster ions with oxygen (Grad. Sch. Sci., Kyushu Univ.) ○SARUGAKU, Shun; MURAKAMI, Ryohei; ARAKAWA, Masashi; TERASAKI, Akira

2H2-50 Reactivity of Early-Transition-Metal Doped Copper Cluster Cations toward NO: Comparison with O_2 (Genesis Res. Inst., Inc.) ○HIRABAYASHI, Shinichi; ICHIHASHI, Masahiko

2H2-51 Structures and CO-adsorption of nickel oxide cluster cations investigated by ion mobility mass spectrometry (Grad. Sch. Sci., Tohoku Univ.) ○AZUMA, Shohei; KOMUKAI, Tatsuya; MORIYAMA, Ryoichi; NAKANO, Motoyoshi; OHSHIMO, Keiji; MISAIZU, Fuminori

Chair: TERASAKI, Akira (17 : 40~18 : 40)

* 17:30-17:40: interval for laptop PC connection.(2H2-53, 2H2-54, 2H2-55, 2H2-56, 2H2-57, 2H2-58)

2H2-53 Structures and stable compositions of chromium oxide cluster anions studied by ion mobility mass spectrometry (Grad. Sch. Sci., Tohoku Univ.) ○SATO, Ryuki; KOMUKAI, Tatsuya; MORIYAMA, Ryoichi; NAKANO, Motoyoshi; OHSHIMO, Keiji; MISAIZU, Fuminori

2H2-54* Stable stoichiometric compositions and geometrical structures of vanadium oxide cluster ions studied by ion mobility mass spectrometry (Sch. Sci., Tohoku Univ.) ○WU, Jenna Wen Ju; MORIYAMA, Ryoichi; NAKANO, Motoyoshi; OHSHIMO, Keiji; MISAIZU, Fuminori

2H2-55* Reaction of atomic gold anion to abstract halogen from halomethane (Grad. Sch. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.) ○MURAMATSU, Satoru; KOYASU, Kiichiro; TSUKUDA, Tatsuya

2H2-56 Composition Dependence of Oxygen Release Temperatures of the Palladium Oxide Clusters (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○MIYAJIMA, Ken; MAFUNE, Fumitaka

2H2-57 Hydrogen desorption from hydrogen storage palladium clusters (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TAKENOCHI, Masato; MIYAJIMA, Ken; MAFUNE, Fumitaka

2H2-58 Reactions of rhodium cationic clusters, Rh_n^+ , with NO in thermal energy region (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TAWARAYA, Yuki; MIYAJIMA, Ken; MAFUNE, Fumitaka

Saturday, March 28, AM

Chair: KOTANI, Hiroaki (9 : 00~9 : 40)

* 8:50-9:00: interval for laptop PC connection.(3H2-01, 3H2-02, 3H2-03)

3H2-01 Effects of Plasmon and Magnetic Field on Photocurrents of Zinc Porphyrin-Viologen Linked Compound-Metal Nanoparticle Composite Films (Grad. Sch. Eng., Kyushu Univ.) ○YONEMURA, Hiroaki; NIIMI, Tomoki; YAMADA, Sunao

3H2-02 Photoinduced electron transfer in supramolecular complexes composed of lithium-ion-encapsulated fullerene and porphyrin-peptide oligomers (Grad. Sch. Eng., Osaka Univ.; ALCA, JST; Louis Pasteur Univ.) ○HASEGAWA, Tetsuya; OHKUBO, Kei; SOLLADIE, Nathalie; FUKUZUMI, Shunichi

3H2-03* Electron transfer dynamics and vibrational coherence of inhomogeneous photoelectric conversion systems by means of femtosecond VIS-NIR transient absorption spectroscopy (Osaka Univ. Institute for NanoScience Design) ○KATAYAMA, Tetsuro; MIYASAKA, Hiroshi

Saturday, March 28, PM

Chair: NAKAJIMA, Atsushi (13 : 10~14 : 00)

* 13:00-13:10: interval for laptop PC connection.(3H2-26, 3H2-28, 3H2-29, 3H2-30)

3H2-26* Pump-probe coincidence momentum imaging of ultrafast hydrogen migration in methanol induced by few-cycle intense laser pulses (Grad. Sch.

Sci., The Univ. of Tokyo) ○ANDO, Toshiaki; SHIMAMOTO, Akihiro; MIURA, Shun; NAKAI, Katsunori; XU, Huailiang; IWASAKI, Atsushi; YAMANOUCHI, Kaoru

3H2-28[#] Development of an angular-resolved time-of-flight type femtosecond laser-assisted electron scattering apparatus (Grad. Sch. Sci., The Univ. of Tokyo) ○ISHIDA, Kakuta; KANYA, Reika; YAMANOUCHI, Kaoru

3H2-29 Determination of absolute CEP of circularly-polarized few-cycle laser pulses by angular distribution of tunnel-ionized photoelectrons (Grad. Sch. Sci., The Univ. of Tokyo) ○FUKAHORI, Shinichi; ANDO, Toshiaki; MIURA, Shun; KANYA, Reika; YAMANOUCHI, Kaoru; RATHJE, Tim; PAULUS, Gerhard G.

3H2-30 Anisotropic Coulomb Explosion of CO Ligands in Group VI Metal Carbonyl Complexes (Grad. Sch. Sci., Osaka City Univ.) ○TANAKA, Hiroki; NAKASHIMA, Nobuaki; YATSUHASHI, Tomoyuki

Chair: SUZUKI, Mitsuharu (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(3H2-32, 3H2-34, 3H2-36)

3H2-32* Electron Transfer Processes from Excited Naphthalene Diimide Radical Anions (ISIR, Osaka Univ.) ○FUJITSUKA, Mamoru; KIM, Sung Sik; LU, Chao; TOJO, Sachiko; MAJIMA, Tetsuro

3H2-34* Near-Infrared Photoelectrochemical Conversion of Supramolecular Complexes Composed of $\text{Li}^+@C_{60}$ and Anionic Phthalocyanines by Long-Lived Photoinduced Charge Separation (Grad. Sch. Eng., Osaka Univ.; Universidad Miguel Hernández de Elche; Fac. Sci. Tech., Keio Univ.) ○KAWASHIMA, Yuki; OHKUBO, Kei; MANUEL BLAS-FERRANDO, Vicente; SAKAI, Hayato; HASOBE, Taku; SASTRE-SANTOS, Ángela; FUKUZUMI, Shunichi

3H2-36** Unusual heat-trapping and sensing within nano-layered microenvironment formed by polyfluorinated cationic surfactants (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) ○RAMAKRISHNAN, Vivek; HORIGUCHI, Haruo; YAMAMOTO, Daisuke; NABETANI, Yu; SHIMADA, Tetsuya; TACHIBANA, Hiroshi; INOUE, Haruo

Chair: KOBORI, Yasuhiro (15 : 20~16 : 30)

* 15:10-15:20: interval for laptop PC connection.(3H2-39, 3H2-44)

3H2-39[#] Special Lecture From Materials Science to Structural Biology: Putting a Spin on it with EPR Spectroscopy (University College London Institute of Structural and Molecular Biology) ○W. M. KAY, Christopher

3H2-44* Photoinitiated Radical Polymerization of Diethyl Fumarate and Diethyl Maleate as Studied by Time-resolved EPR Spectroscopy (Grad. Sch. Sci., Eng., Tokyo Tech) ○TAKAHASHI, Hirona; KAWAI, Akio

Chair: IKOMA, Tadaaki (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(3H2-47, 3H2-48, 3H2-49, 3H2-50, 3H2-51, 3H2-52)

3H2-47 Time-resolved EPR study on photocurrent generation mechanism in P3HT:PCBM organic thin-film solar cell (Sch. Sci., Kobe Univ.) ○AKO, Takumi; MIURA, Taku; TACHIKAWA, Takashi; MARUMOTO, Kazuhiro; KOBORI, Yasuhiro

3H2-48 Time-Resolved EPR Study on the Electronic Structures of the Excited Triplet State of [26] and [28]Hexaphyrins (Grad. Sch. Sci., Kobe Univ.; Grad. Sch. Sci., Nagoya Univ.; Grad. Sch. Sci., Kyoto Univ.; IMRAM, Tohoku Univ.; Grad. Sch. Sci., Osaka City Univ.) ○EMA, Fumitoshi; SAITO, Shohei; OSUKA, Atsuhiko; TANABE, Mana; YAMAUCHI, Seigo; SUGISAKI, Kenji; SATO, Kazunobu; TAKUI, Takeji; TACHIKAWA, Takashi; KOBORI, Yasuhiro

3H2-49 Magnetic Field Effects on Photo-Induced Electron Transfer Reaction in an Ionic Liquid: Observation of Magnetic Field Effects Due to the Level Crossing Mechanism (Grad. Sch. Sci., Eng., Saitama Univ.) ○YAGO, Tomoaki; ISHII, Yuya; WAKASA, Masanobu

3H2-50 Magnetic field effects on singlet fission (Grad. Sch. Sci., Eng., Saitama Univ.) ○KAISE, Mana; YAGO, Tomoaki; KATOH, Ryuuji; WAKASA, Masanobu

3H2-51 Development of method to evaluate rate constant for addition reaction in early stage of photopolymerization as studied by flow-injection ESR method (KIT) ○MIYAKE, Yusuke; YANASE, Keisuke; YAMASHITA, Tomoyuki; KANAORI, Kenji; TAJIMA, Kunihiko; NIWA, Masahito; HIRANO, Keisuke

3H2-52 Time-resolved EPR observation of complex of amyloid fibrils-anthraquinone sulfonate by using time-resolved electron paramagnetic resonance method (Sch. Sci., Kobe Univ.) ○ABE, Tomoka; CHATANI, Eri; TACHIKAWA, Takashi; KOBORI, Yasuhiro

Sunday, March 29, AM

Chair: HIRADE, Tetsuya (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4H2-01, 4H2-02, 4H2-03, 4H2-04, 4H2-05, 4H2-06)

4H2-01 Study on distribution of functionalized region in polymer by EB-grafting (Sch. Advanced Sci. Eng., Waseda Univ.) ○URUSHIBATA, Ryo; TAKURA, Takashi; TSUKAMOTO, Atsushi; SAKAI, Yusuke; OSHIMA, Akihiro; WASHIO, Masakazu

4H2-02 Development of organic/inorganic hybrid proton exchange membrane for PEFCs in low- or non-humidity condition (WISE) ○TAKASHI, Takura; YOSHIDA, Satoki; TSUKAMOTO, Atsushi; SAKAI, Yusuke;

HANAZAKI, Yu; OSHIMA, Akihiro; WASHIO, Masakazu

4H2-03 Fabrication of thermo responsive membrane using EB-grafting for developing DDS nanodevices (Sch. Advanced Sci. Eng., Waseda Univ.) ○YAMAHARA, Yumi; TAKAHASHI, Atsushi; OSHIMA, Akihiro; WASHIO, Masakazu

4H2-04 Radiation-sterilization of poly (L-lactic acid) for applying to bio-device (WISE) ○TAKAHASHI, Atsushi; OSHIMA, Akihiro; OYAMA, Tomoko; NAGASAWA, Naotsugu; TAGUCHI, Mitsumasa; WASHIO, Masakazu

4H2-05 Ageing study of cable insulation by means of microwave absorption method (Fac. Eng., FUT; Grad. Sch. Eng., Osaka Univ.; Grad. Sch. Eng., The Univ. of Tokyo; Univ. of Fukui Research Institute of Nuclear Engineering) ○SUNAGAWA, Takeyoshi; SAEKI, Akinori; SEKI, Shu; KUDOU, Hisaaki; IZUMI, Yoshinobu

4H2-06 Study of iodine collection by atmospheric pressure microwave discharge technique (Fac. Eng., FUT; University of Ontario Institute of Technology Faculty of Energy Systems and Nuclear Science) ○YAMAMOTO, Kaho; HARVEL, Glenn; SUNAGAWA, Takeyoshi

Chair: SUNAGAWA, Takeyoshi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4H2-08, 4H2-10, 4H2-12)

4H2-08* Positronium in room temperature ionic liquids (NSED, JAEA) ○HIRADE, Tetsuya

4H2-10* Change of transient absorption spectra induced by irradiation in alcohol containing 1,2-dibromotetrafluoroethane (Tokyo Metropolitan Ind. Tech. Res. Inst.; Grad. Sch. Eng., The Univ. of Tokyo) ○NAKAGAWA, Seiko; YAMASHITA, Shinichi; KATSUMURA, Yosuke

4H2-12* The study of geminate ion recombination and decomposition in n-dodecane by a femtosecond pulse radiolysis (ISIR, Osaka Univ.) ○KONDOH, Takafumi; NISHII, Satoshi; GOHDO, Masao; KAN, Koichi; YANG, Jinfeng; NORIZAWA, Kimihiro; TAGAWA, Seiichi; YOSHIDA, Yoichi

Chair: TAKEUCHI, Satoshi (11 : 20~11 : 50)

* 11:10-11:20: interval for laptop PC connection.(4H2-15)

4H2-15 CSJ Award for Young Chemists Development of Novel Reactions Induced by Coherent Molecular Vibrational Excitation and Direct Observation of Molecular Structural Change during Thermal Reactions (Fac. Eng., Kanagawa Univ.) ○IWAKURA, Izumi

Sunday, March 29, PM

Chair: WASHIO, Masakazu (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(4H2-25, 4H2-26, 4H2-27, 4H2-28, 4H2-29)

4H2-25 Picosecond pulse radiolysis study on n-propanol at high temperature (ISIR, Osaka Univ.) ○YOSHIDA, Tetsuro; MUROYA, Yusa; YAMASHITA, Shinichi; KATSUMURA, Yosuke; KOZAWA, Takahiro

4H2-26 Photochemistry between Unsaturated Compound and Chlorine in Solid Phase at Low Temperature (Grad. Sch. Eng., Yokohama Natl. Univ.) ○MASUDA, Tatsuru; SEKI, Kanekazu

4H2-27 Elucidation of fluorescence blinking statistics produced by interfacial charge transfer between single adsorbed dyes and TiO_2 (Grad. Sch. Sci., Rikkyo Univ.) ○UNNO, Aki; MITSUI, Masaaki

4H2-28 Electroabsorption spectroscopy of ionic liquid dispersed in a polymer thin film (MURORAN INST. OF TECH.; RIES, Hokkaido Univ.) ○FUNAMOTO, Yuuki; ITO, Ryuichi; OHTA, Nobuhiro; ○IIMORI, Toshifumi

4H2-29* Polymer-matrix effects on the lifetimes of long-lived photoinduced charge-separated states in triphenylamine - naphthalenediimide dyads. (Grad. Sch. Sci. Eng., Univ. of Toyama) ○KIMOTO, Kenshi; SATO, Tsubasa; HORIKOSHI, Takafumi; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji; IWAMURA, Munetaka; NOZAKI, Koichi

Chair: KAWAI, Akio (14 : 10~15 : 00)

* 14:00-14:10: interval for laptop PC connection.(4H2-32, 4H2-34, 4H2-36, 4H2-37, 4H2-38, 4H2-39)

4H2-32* Spatio-temporal imaging of plasmon dynamics in a single gold nanorod (Institute for Molecular Science) ○NISHIYAMA, Yoshio; NARUSHIMA, Tetsuya; IMURA, Kohei; OKAMOTO, Hiromi

4H2-34* Development of broadband and sensitive femtosecond time-resolved circular dichroism spectroscopy (Grad. Sch. Sci., The Univ. of Tokyo) ○HIRAMATSU, Kotaro; NAGATA, Takashi

4H2-36 Photocycloaddition of *trans*-stilbene to fumarate ester in a micro-reactor (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○YOSHIMURA, Misako; ISOZAKI, Tasuku; MORI, Tadashi; INOUE, Yoshihisa; SUZUKI, Tadashi

Chair: ISHII, Kunihiko (15 : 00~15 : 30)

4H2-37 Charge transfer quenching of singlet oxygen by electron donor molecules in room temperature ionic liquids as studied by near IR spectroscopy (Grad. Sch. Sci., Eng., Tokyo Tech) ○KATO, Mai; YOSHIDA, Tsuyoshi; KAWAI, Akio

4H2-38 Physicochemical self-organizing phenomenon of starch with chemical substances (Fac. Life Med. Sci., Doshisha Univ.) ○MATSUURA, Hirotsato;

YOSHIOKA, Risa

4H2-39 Influence of Chirality of Phospholipid Derivatives on their Crystallization Behavior (Fac. Sci. Tech., Keio Univ.) ○INA, Yuki; OKANO, Kunihiko; ASAKURA, Kouichi

Room H3

Bldg.2 243

Physical Chemistry -Structure-

Thursday, March 26, AM

Nonlinear Optics

Chair: EGASHIRA, Kazuhiro (9 : 00 ~ 9 : 50)

* 8:50-9:00: interval for laptop PC connection.(1H3-01, 1H3-03, 1H3-04)

1H3-01* Theoretical study on second hyperpolarizabilities of asymmetric singlet open-shell condensed-ring conjugated molecules (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAKANO, Masayoshi; FUKUDA, Kotaro

1H3-03 Theoretical study on substituent effects on electronic excitation and optical response properties of 1,3-diradical compounds (Grad. Sch. Eng. Sci., Osaka Univ.; Grad. Sch. Sci., Hiroshima Univ.) ○SAITO, Michika; KISHI, Ryohei; MORITA, Keisuke; ABE, Manabu; NAKANO, Masayoshi

1H3-04* Theoretical study on the excitation and optical response properties of one-dimensional phenalenyl radical aggregates (Grad. Sch. Eng. Sci., Osaka Univ.; Dept. of Chem. Eng., NNCT) ○KISHI, Ryohei; MORITA, Keisuke; YONEDA, Kyohei; NAKANO, Masayoshi

Chair: NAGASAKA, Masanari (10 : 00 ~ 10 : 50)

* 9:50-10:00: interval for laptop PC connection.(1H3-07, 1H3-09, 1H3-10, 1H3-11)

1H3-07* Theoretical study on the open-shell singlet nature and the second hyperpolarizabilities of curved fused-ring conjugated systems involving five-membered rings (Grad. Sch. Eng. Sci., Osaka Univ.) ○FUKUDA, Kotaro; MINAMIDA, Yuka; NAKANO, Masayoshi

1H3-09 Theoretical study on diradical characters and the second hyperpolarizabilities of open-shell singlet curved π -conjugated systems involving corannulene framework (Grad. Sch. Eng. Sci., Osaka Univ.) ○MINAMIDA, Yuka; FUKUDA, Kotaro; NAKANO, Masayoshi

1H3-10 Theoretical studies on photoabsorption properties of BODIPY (Grad. Sch. Eng. Sci., Osaka Univ.) ○ASAOKA, Mizuki; MIYAGI, Koji; TAKEBAYASHI, Taku; KITAGAWA, Yasutaka; NAKANO, Masayoshi

1H3-11 Theoretical study on the relationship between diradical character and second hyperpolarizability of π -stacked thiazyl radical multimers (Sch. Eng. Sci., Osaka Univ.) ○MATSUI, Hiroshi; FUKUDA, Kotaro; MINAMIDA, Yuka; NAKANO, Masayoshi

X-ray Scattering & Absorption

Chair: NAKANO, Masayoshi (11 : 00 ~ 12 : 00)

* 10:50-11:00: interval for laptop PC connection.(1H3-13, 1H3-15, 1H3-17)

1H3-13* An experimental evidence for screening effect on ionic liquid structures in carbon nanospaces. (Shinshu Univ.) ○FUTAMURA, Ryusuke; TAKASAKI, Yuma; IYAMA, Taku; FUJIMORI, Toshihiko; SIMON, Patrice; GOGOTSI, Yury; KANEKO, Katsumi

1H3-15* Dynamics of photoexcitation states of WO_3 studied by pico- and femto-second time resolved XAFS (Institute for Molecular Science Materials Molecular Science, Electronic Structure; Institute for Molecular Science) ○UEMURA, Yohei; KIDO, Taiki; WAKISAKA, Yuki; UEHARA, Hiromitsu; OBA, Tadashi; NIWA, Yasuhiro; NOZAWA, Shunsuke; SATO, Tokushi; ICHIYANAGI, Kohei; FUKAYA, Ryo; ADACHI, Shinichi; KATAYAMA, Tetsuo; YABASHI, Makina; TAKAKUSAGI, Satoru; OHTANI, Bunsho; YOKOYAMA, Toshihiko; ASAKURA, Kiyotaka

1H3-17* Local Structures of Aqueous Solutions Studied by Soft X-ray Absorption Spectroscopy: Aqueous Pyridine and Acetonitrile Solutions (IMS) ○NAGASAKA, Masanari; YUZAWA, Hayato; KOSUGI, Nobuhito

Thursday, March 26, PM

Gas Phase

Chair: FUKUSHIMA, Masaru (13 : 10 ~ 14 : 00)

* 13:00-13:10: interval for laptop PC connection.(1H3-26, 1H3-27, 1H3-29)

1H3-26 Near-infrared spectroscopy of T_2O (Fac. Sci., Univ. of Toyama; Univ. of Toyama HRC; Fac. Sci., Toho Univ.) ○KOBAYASHI, Kaori; SAITO, Moemi; KUMASAKA, Akihiro; HARA, Masanori; HATANO, Yuji; OZEKI, Hiroyuki

1H3-27* Decay dynamics between the ion-pair states of I_2 (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.; Fac. of Edu., Tokyo Gakugei Univ.; Fac.

Info. Sci., Hiroshima City Univ.) ○HOSHINO, Shoma; ARAKI, Mitsunori; NAKANO, Yukio; ISHIWATA, Takashi; TSUKIYAMA, Koichi

1H3-29* Structural fluctuation among the multiple stable isomers in mono-solvated cluster cations (Grad. Sch. Sci., Kyushu Univ.) ○IKEDA, Takamasa; SAKOTA, Kenji; SEKIYA, Hiroshi

Chair: KOBAYASHI, Kaori (14 : 10 ~ 15 : 00)

* 14:00-14:10: interval for laptop PC connection.(1H3-32, 1H3-34, 1H3-36)

1H3-32** Molecular chirality: a new approach from a dynamical point of view (SOKENDAI The Central Office) ○HIROTA, Eizi

1H3-34* Jet spectroscopy of metal containing free radicals (Grad. Sch. Info. Sci., Hiroshima City Univ.) ○FUKUSHIMA, Masaru; ISHIWATA, Takashi

1H3-36 Magnetic properties of the chromium dimer cation: Determination by photoabsorption (Genesis Research Institute, Inc. East Tokyo Laboratory; Grad. Sch. Nanobioscience, Yokohama City Univ.) ○EGASHIRA, Kazuhiro; YAMADA, Yurika; KITA, Yukiomi; TACHIKAWA, Masanori

Solid Interface

Chair: MASUDA, Shigeru (15 : 10 ~ 16 : 10)

* 15:00-15:10: interval for laptop PC connection.(1H3-38, 1H3-40, 1H3-41, 1H3-42, 1H3-43)

1H3-38* Aggregation effects on carrier dynamics and reactivity of photocatalyst $BiVO_4$ studied with transient absorption microscopy (Grad. Sch. Sci., Kyoto Univ.) ○YABUTA, Mitsunori; NORIOKA, Shinpei; JIA, Qingxin; WATANABE, Kazuya; KUDO, Akihiko; SUGIMOTO, Toshiaki; MATSUMOTO, Yoshiyasu

1H3-40 Study of PES and XAS for Vanadium oxide thin films on Ag(100) (Grad. Sch. Sci., Rikkyo Univ.) ○NAKAMURA, Takuya; SUGIZAKI, Yuichi; ISHIDA, Shuhei; CHIKABA, Tadashi; YOSHIKAWA, Syunsaku; EDAMOTO, Kazuyuki

1H3-41 Change in the surface electronic structure of $Fe_2P(0001)$ induced by P segregation (Grad. Sch. Sci., Rikkyo Univ.) ○ISHIDA, Shuhei; SUGIZAKI, Yuichi; NAKAMURA, Takuya; YAMAGUCHI, Yuta; TAKIGAWA, Saki; EDAMOTO, Kazuyuki

1H3-42 Unoccupied States of Rubrene/Au(111) Studied by Two-photon Photoemission Spectroscopy (Grad. Sch. Sci., Osaka Univ.) ○NISHIMURA, Fumiya; UEBA, Takahiro; KUNIEDA, Syougo; YAMADA, Takashi; KATOU, Hiroyuki; MUNAKATA, Toshiaki

1H3-43 Dependence of calculated activation energies of silicon surface reactions with H_2 and HCl on cluster size (Grad. Sch. Creative Sci. Eng., Waseda Univ.) ○ANZAI, Keisuke; KUNIOSHI, Nilson; FUWA, Akio

Chair: EDAMOTO, Kazuyuki (16 : 20 ~ 17 : 10)

* 16:10-16:20: interval for laptop PC connection.(1H3-45, 1H3-46, 1H3-47, 1H3-48, 1H3-49)

1H3-45 Electronic structure of silicene multilayers grown on Ag(111) (The Univ. of Tokyo Graduate School of Frontier Science; The Univ. of Tokyo Graduate School of Arts and Sciences) NAGAO, Ryo; HAGINO, Takeshi; LIN, Chun Liang; ARAFUNE, Ryoichi; ○TAKAGI, Noriaki; KAWAI, Maki; AOKI, Masaru; MASUDA, Shigeru

1H3-46 Film structure and valence electronic state of dinaphthothienothiophene layers (The Univ. of Tokyo) KUBOKI, Shingo; ○ITO, Yujiro; AOKI, Masaru; MASUDA, Shigeru

1H3-47 Raman investigation of pentacene: C_{60} bulk-heterojunction films (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○IWASAWA, Yasuhiro; FURUKAWA, Yukio

1H3-48 Principles and Application of Heterodyne Scanning Tunneling Spectroscopy (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○MATSUYAMA, Eiji; KONDO, Takahiro; OIGAWA, Haruhiro; GUO, Donghui; NEMOTO, Shojiro; NAKAMURA, Junji

1H3-49 Coadsorption effects on the adsorption and reaction of C_2H_4 on Cu (410)surface (Grad. Sch. Sci., Osaka Univ.; Jozef Stefan Institute) ○MAKINO, Takamasa; KOKALJ, Anton; OKADA, Michio

Nano Structure

Chair: TAKAGI, Noriaki (17 : 20 ~ 18 : 20)

* 17:10-17:20: interval for laptop PC connection.(1H3-51, 1H3-53, 1H3-54, 1H3-56)

1H3-51* Study of SERS-inactive molecular behavior by using power law analysis of blinking SERS (Sch. Sci. Tech., Kwansai Gakuin Univ.; Grad. Sch. Eng., Kagawa Univ.; HRI, AIST) ○KITAHAMA, Yasutaka; ARAKI, Daichi; YAMAMOTO, S. Yuki; ITOH, Tamitake; OZAKI, Yukihiko

1H3-53 Measurement of surface-enhanced Raman scattering (SERS) and surface-enhanced hyper-Raman scattering (SEHRS) spectra of molecules adsorbed on optically-trapped silver nanoparticles (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○HAYASHI, Hiroaki; KITAHAMA, Yasutaka; ITOU, Tamitake; OZAKI, Yukihiko

1H3-54* Chirality Sensing of Biomolecules Using Achiral Gold Nanostructures and Achiral Light Source (Univ. of Glasgow School of Chemistry; Institute for Molecular Science) ○HASHIYADA, Shun; TULLIUS, Ryan; KARIMULLAH, Affar; OKAMOTO, Hiromi; KADODWALA, Malcolm

1H3-56 Spectroelectrochemistry for Strong Coupling System of Localized Surface Plasmons and Dye Excitons (Grad. Sch. Chi Sci. and Eng., Hokkaido

Univ.) ○OHNUKI, Atsuyori; NAGASAWA, Fumika; SUZUKI, Kentaro; YASUDA, Satoshi; MURAKOSHI, Kei

Asian International Symposium -Physical Chemistry/Theoretical and Computational Chemistry-

Friday, March 27, AM

Chair: MATUBAYASI, Nobuyuki (9:00~10:20)

2H3-01[#] Opening Remarks (Shizuoka Univ.) TORII, Hajime (09:00~09:10)

2H3-02[#] Keynote Lecture Enthalpic Depletion Forces in Complex Solutions (The Hebrew Univ. of Jerusalem) HARRIES, Daniel (09:10~09:40)

2H3-05[#] Invited Lecture Molecular Dynamics Study on Cyclodextrin Based Drug Delivery System (Chulalongkorn Univ.) RUNGROTMONGKOL, Thanyada (09:40~10:00)

2H3-07[#] Invited Lecture Spectroscopic Study on the Dynamics and Structure of Sodium Pump Rhodopsin (Nagoya Institute of Technology, JST PRESTO) INOUE, Keiichi (10:00~10:20)

Chair: SATO, Hirofumi (10:30~11:40)

2H3-10[#] Keynote Lecture Molecular Approach in the Evaluations of Hydration Properties Obtained from Molecular Dynamics Simulation (Chulalongkorn Univ.) VCHIRAWONGKWIN, Viwat (10:30~11:00)

2H3-13[#] Invited Lecture Toward Molecular Understanding of Excitation Energy Transfer in Light-Harvesting Antennas (Univ. of the Ryukyus) HIGASHI, Masahiro (11:00~11:20)

2H3-15[#] Invited Lecture Structure and Dynamics of Self-Localized Excitations in Photoconductive Polymers Studied by Femtosecond Near-IR Stimulated Raman Spectroscopy (Gakushuin Univ.) TAKAYA, Tomohisa (11:20~11:40)

Friday, March 27, PM

Chair: KIM, Yousoo (13:10~14:20)

2H3-26[#] Keynote Lecture Ultrafast Electron Microscopy Principle and Demonstrations in Chemical and Materials Science (Ulsan National Institute of Science and Technology) KWON, Oh-Hoon (13:10~13:40)

2H3-29[#] Invited Lecture Sequentially Timed All-Optical Mapping Photography for Sub-Nanosecond Single-Shot Imaging (The Univ. of Tokyo) Nakagawa, Keiichi (13:40~14:00)

2H3-31[#] Invited Lecture Exploration of the Nature of Non-Adiabatic Electron Dynamics in Chemistry (The Univ. of Tokyo) ○YONEHARA, Takehiro; TAKATSUKA, Kazuo (14:00~14:20)

Chair: YAMAMOTO, Hiroshi (14:30~15:40)

2H3-34[#] Keynote Lecture The Rise of Organic-Inorganic Lead Halide Perovskite Solar Cells (Nanyang Technological Univ.) SUM, Tze Chien (14:30~15:00)

2H3-37[#] Invited Lecture Quantitative Determination of Weak Electronic Interaction in Organic Thin Films and Interfaces Using High-Resolution Photoemission Spectroscopy (Institute for Molecular Science) YAMANE, Hiroyuki (15:00~15:20)

2H3-39[#] Invited Lecture Optical Response of Supported Nanoclusters at a Dielectric Interface (Institute for Molecular Science) IIDA, Kenji (15:20~15:40)

Chair: NAKAI, Hiromi (15:50~17:10)

2H3-42[#] Keynote Lecture Density Functional Approaches to the Energy Storage and Environmental Materials: Theory and Applications (Korea Advanced Institute of Science and Technology) JUNG, Yousung (15:50~16:20)

2H3-45[#] Invited Lecture DFT-MD Study of Superconcentrated Electrolytes for Chemically Stable and Fast-Charging Lithium-Ion Batteries (ESICB, Kyoto Univ. / MANA, NIMS) SODEYAMA, Keitaro (16:20~16:40)

2H3-47[#] Invited Lecture Ion Conductive Coordination Frameworks: Their Ion Transport Mechanism and Application (Kyoto Univ.) HORIKE, Satoshi (16:40~17:00)

2H3-49[#] Closing Remarks (Gakushuin Univ.) IWATA, Koichi (17:00~17:10)

Physical Chemistry -Structure-

Saturday, March 28, PM

liquid interface

Chair: IWATA, Koichi (13:10~14:10)

* 13:00-13:10: interval for laptop PC connection.(3H3-26, 3H3-28, 3H3-29, 3H3-30)

3H3-26^{*} The effect of Pt(111) substrate on the ice rules breaking in ferroelectric ice films (Grad. Sch. Sci., Kyoto Univ.) ○AIGA, Norihiro; OTSUKI, Yuji; HARADA, Kuniaki; SUGIMOTO, Toshiki; WATANABE, Kazuya; MATSUMOTO, Yoshiyasu

3H3-28 IV-SFG studies on the ultra-slow relaxation process of the surface

structure of dicationic ionic liquids ($[C_n(\text{Mim})_2][\text{TfSA}]_2$) (Sch. Eng., Nagoya Univ.; Grad. Sch. Sci., Eng., Tokyo Tech) ○SAKAI, Yasunari; TOBITA, Natsuko; MANDAI, Toshihiko; NISHIKAWA, Keiko; IWAHASHI, Takashi; KIM, Doseok; OUCHI, Yukio

3H3-29[#] Water Structure at the Biocompatible Polymer Interface Studied with Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy (RIKEN) ○MYALITSIN, Anton; NIHONYANAGI, Satoshi; YAMAGUCHI, Shoichi; YANAGISAWA, Junji; AOKI, Takashi; TAHARA, Tahei

3H3-30[#] Effect of Fermi resonance on water dynamics at charged interfaces revealed by 2D HD-VSFG spectroscopy (RIKEN) ○INOUE, Ken-ichi; SINGH, Prashant; NIHONYANAGI, Satoshi; YAMAGUCHI, Shoichi; TAHARA, Tahei

Chair: NIHONYANAGI, Satoshi (14:20~15:10)

* 14:10-14:20: interval for laptop PC connection.(3H3-33, 3H3-35, 3H3-36, 3H3-37)

3H3-33^{*} Single-channel heterodyne-detected sum frequency generation spectroscopy (Fac. Eng., Saitama Univ.) ○YAMAGUCHI, Shoichi

3H3-35 Heterodyne-detected sum frequency generation spectroscopy of free OH at the water/vapor interface (Fac. Eng., Saitama Univ.) ○SUZUKI, Yuda; YAMAGUCHI, Shoichi

3H3-36 Heterodyne-detected sum frequency generation spectroscopy of the methanol/vapor interface (Fac. Eng., Saitama Univ.) ○SARUTA, Moeko; YAMAGUCHI, Shoichi

3H3-37 Molecular orientation at ionic liquid/solid interfaces; Sum Frequency Generation spectroscopy and molecular simulation analysis (WPI-AIMR, Tohoku Univ.) ○IMAMURA, Takako; MIZUKAMI, Masashi; KURIHARA, Kazue

Chair: YAMAGUCHI, Shoichi (15:20~15:50)

* 15:10-15:20: interval for laptop PC connection.(3H3-39, 3H3-40)

3H3-39 Study of Electronic Transitions of Polyethylene Glycol by using Attenuated Total Reflectance Spectroscopy in the Far-Ultraviolet Region (Fac. Sci. Eng., Kinki Univ.) ○UENO, Nami; MORISAWA, Yusuke

3H3-40^{*} Effects of Alumina Surface on Electronic State of Interfacial Water Studied by Variable-Angle Attenuated Total Reflection Far-Ultraviolet Spectroscopy (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○GOTO, Takeyoshi; OZAKI, Yukihiro

spin&magnetic field

Chair: YAMADA, Michio (16:00~16:40)

* 15:50-16:00: interval for laptop PC connection.(3H3-43, 3H3-44, 3H3-45, 3H3-46)

3H3-43 ESR Spectral Manipulation based on Coherent Microwave Multi-Pulses (Grad. Sch. Sci., Osaka City Univ.; Fac. Eng., Aichi Inst. of Tech.) ○SATO, Kazunobu; NAKAZAWA, Shigeaki; TOYOTA, Kazuo; SHIOMI, Daisuke; MORITA, Yasushi; TAKUI, Takeji

3H3-44 An alternating linewidth effect on an ESR spectrum of an anionic naphthalene diimide derivative (Grad. Sch. Sci., Osaka City Univ.) ○SATO, Kazunobu; ARAKI, Tohru; SUZUKI, Shuichi; TOYOTA, Kazuo; SHIOMI, Daisuke; OKADA, Keiji; TAKUI, Takeji

3H3-45 Electronic structures of compact nitroxide-based triplet diradicals as studied by single-crystal ESR/ENDOR spectroscopy and quantum chemical calculations of their magnetic tensors (Fac. Sci., Osaka City Univ.) ○SAWADA, Shun; NAKAZAWA, Shigeaki; KAWAMORI, Moeko; SUGISAKI, Kenji; SATO, Kazunobu; TOYOTA, Kazuo; SHIOMI, Daisuke; OMUKAI, Kosuke; FURUI, Takanori; KURATSU, Masato; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji; TAKUI, Takeji

3H3-46 A Single-Crystal ESR Study of High-Spin Rhenium Complexes with a Biimidazole Ligand and Quantum Chemical Calculations of their Magnetic Tensors (Grad. Sch. Sci., Osaka City Univ.) ○NAKAGAWA, Tomoki; YAMANE, Takeshi; SATO, Kazunobu; SUGISAKI, Kenji; KANZAKI, Yuki; TOYOTA, Kazuo; SHIOMI, Daisuke; YOSHIZAWA, Makoto; TADOKORO, Makoto; TAKUI, Takeji

Chair: SHIMOAKA, Takafumi (16:50~17:50)

* 16:40-16:50: interval for laptop PC connection.(3H3-48, 3H3-49, 3H3-51, 3H3-53)

3H3-48[#] Magnetic field effects on crystal structures and pore properties of porous coordination polymers of Zn/triazole/oxalic acid (Shinshu Univ. Faculty of Science) ○ZUBIR, Moondra; OZEKI, Sumio; HAMASAKI, Atom

3H3-49^{*} The structure of SWCNTs prepared in magnetic fields. (Fac. Sci., Shinshu Univ.) ○HAMASAKI, Atom; UCHIMURA, Jin; SAKAGUCHI, Ayumi; TAKASHIMA, Yasumasa; OZEKI, Sumio

3H3-51[#] Hiding and Recovering Electrons in a Dimetallic Endohedral Fullerene: Air-Stable Products from Radical Additions (Dept. of Chem., Tokyo Gakugei Univ.) ○YAMADA, Michio; KURIHARA, Hiroki; SUZUKI, Mitsuaki; SAITO, Masayoshi; SLANINA, Zdenek; UHLIK, Filip; AIZAWA, Toshihiro; KATO, Tatsuhisa; OLMSTEAD, Marilyn, M; BALCH, Alan, L; MAEDA, Yutaka; NAGASE, Shigeru; LU, Xing; AKASAKA, Takeshi

3H3-53 Indirect implementation of multiple quantum gates in molecular spin

quantum computers by an electron spin qubit (Grad. Sch. Sci., Osaka City Univ.) ○SHIBATA, Taiki; NAKAZAWA, Shigeaki; HOSSEINI, Elham; MARUYAMA, Kouji; TOYOTA, Kazuo; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji

Sunday, March 29, AM

IR&Raman

Chair: TAKAYA, Tomohisa (9 : 40 ~ 10 : 40)

- * 9:30-9:40: interval for laptop PC connection.(4H3-05, 4H3-06, 4H3-07, 4H3-08, 4H3-09)
- 4H3-05** Infrared Spectrum of Nitro(5,10,15,20-tetraphenylporphyrinato)(4-methylpyridine)cobalt(III) (part 7) (non non) ○YAMAMOTO, Kenichi
- 4H3-06** Frequencies and absorption intensities of the fundamental and the overtone of NH stretching vibrations of pyrrole-pyridine complex studied by density-functional-theory calculation (NIT, Kumamoto College Dept. Bio. and Chem. Sys. Eng.) ○FUTAMI, Yoshisuke; OZAKI, Yasushi; HAMADA, Yoshiaki; OZAKI, Yukihiko
- 4H3-07** Matrix-isolation infrared study of formic acid clusters (RIEMT, AIST) ○FUMIYUKI, Ito
- 4H3-08** Study on structural isomerization and its temperature-dependence of acetylene large clusters by two-dimensional correlation infrared spectroscopy (Grad. Sch. Sci., Shizuoka Univ.) ○MATSUMOTO, Yoshiteru; YOSHIURA, Ryuuto; HONMA, Kenji
- 4H3-09*** Selective observation of large amplitude bridged ring vibrations: Near-infrared resonance low-frequency Raman spectroscopy of [3₄](1,2,4,5) cyclophane radical cation (Coll. Sci. Eng., Aoyama Gakuin Univ.; IMCE, Kyushu Univ.) ○OKAJIMA, Hajime; SAKAMOTO, Akira; SHINMYOZU, Teruo

Chair: OKAJIMA, Hajime (10 : 50 ~ 11 : 50)

- * 10:40-10:50: interval for laptop PC connection.(4H3-12, 4H3-14, 4H3-15, 4H3-16, 4H3-17)
- 4H3-12*** Effects of Aromatic Groups in Room Temperature Ionic Liquids on the Low-Frequency Spectra (Grad. Sch. Adv. Integration Sci., Chiba Univ.; Fac. Sci., Chiba Univ.; Brookhaven National Laboratory Chemistry Department) ○SHIROTA, Hideaki; MATSUZAKI, Hironori; RAMATI, Sharon; WISHART, James
- 4H3-14** Femtosecond Time-Resolved Near-IR Stimulated Raman Spectra of Poly(3-hexylthiophene) in Solution and Band Analysis by Singular Value Decomposition (Fac. Sci., Gakushuin Univ.) ○TAKAYA, Tomohisa; IWATA, Koichi
- 4H3-15** Femtosecond time-resolved near-infrared spectroscopy of oligothiophenes(n=3-8)-observation of low-energy electronically excited states. (Fac. Sci., Gakushuin Univ.) ○OKINO, Shunosuke; TAKAYA, Tomohisa; IWATA, Koichi
- 4H3-16** Characterization of the Ca²⁺-coordination structures of plastins by FTIR spectroscopy (Tokyo Med. and Dental Univ. College of Liberal Arts and Sciences) ○NARA, Masayuki; FURUTA, Yuka; MIYAZONO, Kenichi; SHINOMIYA, Hiroto; MORII, Hisayuki; SHIMIZU, Takashi; MIYAKAWA, Takuya; TANOKURA, Masaru
- 4H3-17** Analytical technique of molecular orientation in a polythiophene thin film using IR MAIRS (ICR, Kyoto Univ.) ○SHIOYA, Nobutaka; SHIMOAKA, Takafumi; HASEGAWA, Takeshi

Sunday, March 29, PM

Chair: MIZUTANI, Yasuhisa (13 : 00 ~ 14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(4H3-25)
- 4H3-25** CSJ Award for Creative Works Development of Multiple-Angle Incidence Resolution Spectrometry and Application Studies of Two-Dimensional Molecular Aggregates (ICR, Kyoto Univ.) ○HASEGAWA, Takeshi

Chemometrics

Chair: SHIROTA, Hideaki (14 : 10 ~ 15 : 00)

- * 14:00-14:10: interval for laptop PC connection.(4H3-32, 4H3-34, 4H3-35, 4H3-36)
- 4H3-32*** Chemical Structural Analysis of Antifreeze Solution by Using Infrared Spectroscopy with an Aid of Chemometrics (ICR, Kyoto Univ.) ○SHIMOAKA, Takafumi; HASEGAWA, Takeshi
- 4H3-34** Multivariate Analysis of Visible Absorption Spectra for Acid-base Indicators (Fac. Edu., Hirosaki Univ.; ICR, Kyoto Univ.) ○SHIMADA, Toru; HASEGAWA, Takeshi

Biomolecules

- 4H3-35** Hydrogen Bond in the Chromophore of Newly Discovered Chloride Ion Pump (Sch. Sci., Osaka Univ.) ○KUBOTA, Shinji; MIZUNO, Misao; KANDORI, Hideki; MIZUTANI, Yasuhisa
- 4H3-36*** Effect of intersubunit interaction with an N-terminus residue of the α subunit on dynamics of human hemoglobin (Grad. Sch. Sci., Osaka Univ.) ○CHANG, Shanyan; MIZUNO, Misao; ISHIKAWA, Haruto; MIZUTANI, Yasuhisa

Chair: MATSUMOTO, Yoshiteru (15 : 10 ~ 16 : 10)

- * 15:00-15:10: interval for laptop PC connection.(4H3-38, 4H3-40, 4H3-42)
- 4H3-38*** Anisotropy of intraprotein energy transfer monitored by time-resolved ultraviolet resonance anti-Stokes Raman spectroscopy (Grad. Sch. Sci., Osaka Univ.) ○KONDOH, Masato; MIZUNO, Misao; MIZUTANI, Yasuhisa
- 4H3-40*** Ultrafast structural dynamics and anharmonic vibrational coupling on excited state of GFP: new insight from time-resolved impulsive stimulated Raman spectroscopy (RIKEN Molecular Spectroscopy Lab.) ○FUJISAWA, Tomotsumi; KURAMOCHI, Hikaru; TAKEUCHI, Satoshi; TAHARA, Tahei
- 4H3-42*** Unique hydrogen-bonding network in Channelrhodopsin revealed by Fourier-Transform Infrared Spectroscopy (Grad Sch. Eng., Nagoya Inst. of Tech.) ○ITO, Shota; KATO, Hideaki; OISHI, Satomi; TANIGUCHI, Reiya; IWATA, Tatsuya; NUREKI, Osamu; KANDORI, Hideki

Room J1

Bldg.5(School of Pharmacy)

Natural Products Chemistry

Thursday, March 26, AM

alkaloids

Chair: ISHIKAWA, Hayato (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1J1-01, 1J1-02, 1J1-03, 1J1-04, 1J1-05, 1J1-06)
- 1J1-01** Enantioselective synthesis of the A-ring moiety of madangamines (Grad. Sch. Sci. Tech., Keio Univ.) ○KUROSU, Yasuhiro; SUTO, Takahiro; YANAGITA, Yuta; SATO, Takaaki; CHIDA, Noritaka
- 1J1-02** Syntheses of the Common Intermediate of Madangamines (Grad. Sch. Sci. Tech., Keio Univ.) ○SUTO, Takahiro; YANAGITA, Yuta; MATSUO, Naoya; KUROSU, Yasuhiro; SATO, Takaaki; CHIDA, Noritaka
- 1J1-03** synthetic study of (-)-stemonine (Grad. Sch. Sci. Tech., Keio Univ.) ○YORITATE, Makoto; TAKAHASHI, Yoshito; SATO, Takaaki; CHIDA, Noritaka
- 1J1-04** Application of Substituted Piperazinones Synthesis Based on Michael Addition of α -Amino Esters to Nitroalkenes (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KAGIMOTO, Sachiko; KUDOH, Takayuki; SAKAKURA, Akira
- 1J1-05** Total Syntheses of Lepadiformines through Hg(OTf)₂-catalyzed Novel Cycloisomerization as a Key Step (Grad. Sch. Sci., Osaka City Univ.) ○YAMAUCHI, Kengo; KIKUCHI, Seiho; EZAKI, Sinnosuke; KOYAMA, Tomoyuki; NOKUBO, Haruka; KODAMA, Takeshi; NISHIKAWA, Keisuke; TACHI, Yoshimitsu; MORIMOTO, Yoshiki
- 1J1-06** One-Pot Synthesis and Neural Differentiation Activity of Ageladine A Derivatives (RIKEN Biofunctional Synthetic Chemistry; Grad. Sch. Sci., Osaka Univ.; Grad. Sch. Advanced Sci. Eng., Waseda Univ.; Kazan Univ. A. Butlerov Institute of Chemistry; JST-PRESTO) ○IWATA, Takayuki; OTSUKA, Satoshi; ARAI, Daisuke; FUKASE, Koichi; NAKAO, Yoichi; TANAKA, Katsunori

Chair: HIRAI, Go (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1J1-08, 1J1-09, 1J1-10, 1J1-11, 1J1-12, 1J1-13)
- 1J1-08** Synthetic study of halichrome A (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○SUZUKI, Yutaro; ABE, Takahiro; KAWAZOE, Yoshinori; WATABE, Taeko; YAMADA, Kaoru; UEMURA, Daisuke
- 1J1-09*** Synthetic Studies of 11-Saxitoxinethanoic Acid *Via* Modified Mukaiyama Aldol Condensation Reaction (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○WANG, Chao; NISHIKAWA, Toru; NAGASAWA, Kazuo
- 1J1-10*** Synthetic study of trans-dihydrolycoricidine utilizing 1,4-Type catalytic asymmetric Friedel-Crafts Reaction (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KATO, Masaru; NAGASAWA, Kazuo
- 1J1-11** Synthetic study of lycorine-type alkaloids (Grad. Sch. Sci. Tech., Keio Univ.) ○SEKI, Yuna; ISHIBASHI, Mizuki; SATO, Takaaki; CHIDA, Noritaka
- 1J1-12** Synthetic study of Lepadiformine (Grad. Sch. Sci. Tech., Keio Univ.) ○MINAMIKAWA, Ryo; SATO, Takaaki; CHIDA, Noritaka
- 1J1-13** Total Synthesis of Palau'amine (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.; Inst. Health Bio., The Univ. of Tokushima) ○TAKEUCHI, Kohei; KAIHARA, Yukari; NAMBA, Kosuke; TANINO, Keiji

Chair: SATO, Takaaki (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1J1-15, 1J1-17, 1J1-19)
- 1J1-15*** Synthetic studies on palau'amine (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○IWATA, Makoto; IMAOKA, Takuya; MATSUO, Hiroki; NAGASAWA, Kazuo
- 1J1-17*** Concise Syntheses of Dictyodendrin A and F by a Sequential C-H

Functionalization Strategy (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; Emory University) ○YAMAGUCHI, Atsushi; CHEPIGA, Kathryn M.; YAMAGUCHI, Junichiro; ITAMI, Kenichiro; DAVIES, Huw M. L.

- 1J1-19[#]** Synthetic Study of α -skytanthine via Asymmetric Domino Michael/Hemiaminalization Reaction (Grad. Sch. Sci. Technol., Kumamoto Univ.) ○SHIOMI, Shinya; SUGAHARA, Erika; ISHIKAWA, Hayato

Thursday, March 26, PM

Amino Acid, Peptide

Chair: OIKAWA, Masato (13:30~14:30)

* 13:20-13:30: interval for laptop PC connection.(1J1-28, 1J1-31, 1J1-32, 1J1-33)

- 1J1-28** Young Scholar Lectures of CSJ Natural Product Syntheses based on Micro-flow, Site Selective Reactions (Grad. Sch. Sci., Eng., Tokyo Tech) ○FUSE, Shinichiro

- 1J1-31[#]** Development of Caspase-3 Inhibitors using Squaric Acid-containing Peptide (Grad. Sch. Sci., Osaka City Univ.) ○MAEDA, Kentaro; SHINADA, Tetsuro

- 1J1-32[#]** Synthetic Study of Kaitocephalin Analogs toward Fluorescent Labeling (Grad. Sch. Sci., Osaka City Univ.) ○YOSHIDA, Yuya; YASUNO, Yoko; OHFUNE, Yasufumi; SHINADA, Tetsuro

- 1J1-33[#]** Synthesis of Dihydrokainic Acid by an Intramolecular Cyclization (Grad. Sch. Sci., Osaka City Univ.) ○YAMADA, Azusa; SHINADA, Tetsuro

Chair: SUENAGA, Kiyotake (14:40~15:40)

* 14:30-14:40: interval for laptop PC connection.(1J1-35, 1J1-36, 1J1-37, 1J1-38, 1J1-39, 1J1-40)

- 1J1-35** Synthesis of 1,2-Aminoalcohols through the Orthoamide-type Overman rearrangement and the S_N2' reaction (Grad. Sch. Sci. Tech., Keio Univ.) ○YASUSHIMA, Daichi; TSUZAKI, Shun; OISHI, Hiroki; SATO, Takaaki; CHIDA, Noritaka

- 1J1-36** Synthetic study of (-)-Kaitocephalin (Grad. Sch. Sci. Tech., Keio Univ.) ○USUI, Shunme; SUGAI, Tomoya; SATO, Takaaki; CHIDA, Noritaka

- 1J1-37** Studies on divergent synthesis of C-ring analogs of IKM-159, the AMPA receptor inhibitor (Grad. Sch. Nanobioscience, Yokohama City Univ.) ○CHIBA, Manami; FUJIMOTO, Chikako; OIKAWA, Masato

- 1J1-38** Synthetic study of clickable dysiherbaine (Yokohama City Univ. Graduate School of Nanobioscience) ○FUKUSHIMA, Koichi; OIKAWA, Masato

- 1J1-39** Synthetic study of ligands for neuronal receptors using enzymatic deacetylation (Grad. Sch. Nanobioscience, Yokohama City Univ.) ○TANAKA, Kento; OIKAWA, Masato

- 1J1-40** Synthetic studies of protoaculeine B (Grad. Sch. Nanobioscience, Yokohama City Univ.) ○SUGAHARA, Hajime; OIKAWA, Masato

Chair: FUSE, Shinichiro (15:50~16:50)

* 15:40-15:50: interval for laptop PC connection.(1J1-42, 1J1-43, 1J1-44, 1J1-45, 1J1-46, 1J1-47)

- 1J1-42** Development of chemoenzymatic synthesis of Saframycins (Sch. Sci., Hokkaido Univ.; Sch. Sci., Hokkaido Univ.) ○TANIFUJI, Ryo; KOUKETSU, Kento; TAKAKURA, Michiko; MINAMI, Atsushi; OGURI, Hiroki; OIKAWA, Hideaki

- 1J1-43** Phenacyl group as a protecting group for thiol in peptide ligation using a recombinant peptide as a C-terminal building block (IPR, Osaka Univ.) ○KAWAKAMI, Toru; HOJO, Hironobu

- 1J1-44** Synthetic study of lymbgacyclamides A and B, cyclic dodecapeptides (Fac. Sci., Kanagawa Univ.) ○HORIKOSHI, Miho; GOTO, Hiromi; MASUDA, Shun; MARU, Norihito; UEMURA, Daisuke

- 1J1-45** Synthesis and biological activity of an anti-inflammatory cyclic peptide, stylissatin A (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SUNABA, Taiki; GISE, Baro; AKINDELE, Tito; KITA, Masaki; KIGOSHI, Hideo

- 1J1-46** Total synthesis of kurahynes (Fac. Sci. Tech., Keio Univ.) ○OKAMOTO, Shinichiro; IWASAKI, Arihiro; OHNO, Osamu; SUENAGA, Kiyotake

- 1J1-47** Synthetic Study on Miuraenamide A, an Antimicrobial Depsipeptide (Fac. Sci. Tech., Keio Univ.) ○YASUI, Ayano; TOHYAMA, Koh; TOKUZUMI, Keita; ITO, Kayoko; TORIIHARA, Eisuke; SUENAGA, Kiyotake

Chair: KITA, Masaki (17:00~17:50)

* 16:50-17:00: interval for laptop PC connection.(1J1-49, 1J1-50, 1J1-51, 1J1-52, 1J1-53)

- 1J1-49** Synthetic Study on Bisebromoamides, Cytotoxic Marine Peptides (Fac. Sci. Tech., Keio Univ.) ○NAGAMATSU, Yumi; SHIMIZU, Yuto; TODOROKI, Seizi; WATANABE, Atsushi; SUENAGA, Kiyotake

- 1J1-50** Isolation, Structural Elucidation and Synthetic Study on Maedamide, a linear depsipeptide. (Fac. Sci. Tech., Keio Univ.) ○TAKAYANAGI, Ayano; IWASAKI, Arihiro; OHNO, Osamu; SUENAGA, Kiyotake

- 1J1-51** Structure of novel linear lipopeptide which contained unique fatty acid,

isolated from a marine cyanobacterium. (Grad. Sch. Sci. Tech., Keio Univ.) ○SUMIMOTO, Shinpei; IWASAKI, Arihiro; OHNO, Osamu; INUZUKA, Toshiyasu; TERUYA, Toshiaki; SUENAGA, Kiyotake

- 1J1-52** Isolation and Structure of a Novel Cyclic Lipopeptide including a t-Bu group from the Marine Cyanobacteria (Fac. Sci. Tech., Keio Univ.) ○OGAWA, Hidetoshi; IWASAKI, Arihiro; SUMIMOTO, Shinpei; OHNO, Osamu; SUENAGA, Kiyotake

- 1J1-53[#]** A Wewakazole-related Cyclic Peptide from the Marine Cyanobacterium *Moorea producens* (Grad. Sch. Env. Sci., Hokkaido Univ.) ○LOPEZ, Julius Adam Velasco; AL-LIHAIBI, Sultan S.; OKINO, Tatsufumi

Asian International Symposium -Natural Products Chemistry, Chemical Biology/Bio-functional Chemistry and Biotechnology- Friday, March 27, PM

Chair: Shimamoto, Keiko (13:00~13:20)

- 2J1-25[#] Invited Lecture** Therapeutic in vivo synthetic chemistry: Synthetic studies of bioactive compounds in live mouse (RIKEN) Pradipta, Ambara Rachmat (13:00~13:20)

Chair: Matsumori, Nobuaki (13:20~13:40)

- 2J1-27[#] Invited Lecture** Sterol-dependent membrane activity of marine sponge-derived bicyclic peptide theonellamide A (Osaka Univ.) Cornelio, Kimberly (13:20~13:40)

Chair: Atomi, Haruyuki (13:40~14:00)

- 2J1-29[#] Invited Lecture** Hyperpolarized MR chemical probes toward in vivo analysis (The Univ. of Tokyo) Nonaka, Hiroshi (13:40~14:00)

Chair: Takeyama, Haruko (14:10~14:40)

- 2J1-32[#] Keynote Lecture** Nanobiophotonics: Nano meets Bio for Photonics (Chinese Academy of Sciences) Wang, Qiangbin (14:10~14:40)

Chair: Oishi, Tohru (14:40~15:10)

- 2J1-35[#] Keynote Lecture** Synthesis and Evaluation of Natural Products - Large and Small - as Therapeutic Leads (The Univ. of Sydney) Payne, Richard J. (14:40~15:10)

Chair: Kikuchi, Kazuya (15:20~15:50)

- 2J1-39[#] Keynote Lecture** Protein Chemistry Tools at the Host-Pathogen Interface (Peking Univ.) Chen, Peng (15:20~15:50)

Chair: Fujimoto, Yukari (15:50~16:20)

- 2J1-42[#] Keynote Lecture** Complex natural product as a driving force for discovery in organic synthesis and chemical biology (Peking Univ.) Lei, Xiaoguang (15:50~16:20)

Chair: Fuwa, Haruhiko (16:30~16:50)

- 2J1-46[#] Invited Lecture** Total Synthesis of Chiriquitoxin, an Analogue of Tetrodotoxin Isolated from the Skin of a Dart Frog (Nagoya Univ.) Adachi, Masaatsu (16:30~16:50)

Chair: Asanuma, Hiroyuki (16:50~17:10)

- 2J1-48[#] Invited Lecture** Fluorescent probes for in vivo imaging and epigenetic analysis (Osaka Univ.) Hori, Yuichiro (16:50~17:10)

Chair: Usuki, Toyonobu (17:10~17:30)

- 2J1-50[#] Invited Lecture** Isolation and functional analysis of a novel thiazole containing polyketide with selective cytotoxicity under nutrient starvation conditions (Keio Univ.) Ohno, Osamu (17:10~17:30)

Natural Products Chemistry

Saturday, March 28, AM

Others

Chair: MURATA, Michio (9:40~10:40)

* 9:30-9:40: interval for laptop PC connection.(3J1-05, 3J1-08, 3J1-09, 3J1-10)

- 3J1-05** CSJ Award for Young Chemists Development of Methods to Determine Molecular Configuration and Conformation by Vibrational Circular Dichroism (Grad. Fac. Life Sci., Hokkaido Univ.) ○TANIGUCHI, Tohru

- 3J1-08** Studies on detoxification compounds against ciguatera fish poisoning isolated from *Capsicum frutescens* L. (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○KARIYAZAKI, Aya; HIRATA, Mitsunobu; ONITSUKA, Satoaki; OKAMURA, Hiroaki; HAMADA, Toshiyuki

- 3J1-09** Studies on secondary metabolites from the Malaysian sponges *Niphates caribica* (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○YAMASHITA, Keisuke; HIRATA, Mitsunobu; HARADA, Daisuke; ONITSUKA, Satoaki; OKAMURA, Hiroaki; VAIRAPPAN, Charles; HAMADA, Toshiyuki

- 3J1-10** Bromoperoxidases from three *Laurencia* species (Grad. Sch. Env. Sci., Hokkaido Univ.) ○KANEKO, Kensuke; KOBAYASHI, Daiki; WASHIO, Kenji; MORIKAWA, Masaaki; OKINO, Tatsufumi

terpenes

Chair: TAKAMURA, Hiroyoshi (10 : 50~11 : 50)

- * 10:40-10:50: interval for laptop PC connection.(3J1-12, 3J1-13, 3J1-14, 3J1-15, 3J1-16)
- 3J1-12** Asymmetric Total Synthesis of 22-Hydroxy-15(28)-dehydroavenustriol Isolated from the Marine Red Alga *Laurencia viridis* (Grad. Sch. Sci., Osaka City Univ.) ○TOKITA, Moe; TAKI, Naoto; NAKAI, Haruka; HOSHINO, Akihiro; MORINO, Miyako; NISHIKAWA, Keisuke; TACHI, Yoshimitsu; MORIMOTO, Yoshiaki
- 3J1-13** Asymmetric Total Synthesis of Marine Cytotoxic Polyether Jubol and Revision of Its Stereochemical Structure (Grad. Sch. Sci., Osaka City Univ.) ○TAKI, Naoto; TOKITA, Moe; NAKAI, Haruka; HOSHINO, Akihiro; MORINO, Miyako; NISHIKAWA, Keisuke; TACHI, Yoshimitsu; MORIMOTO, Yoshiaki
- 3J1-14** Development of the Methodology to Construct CDEFGH-ring of Physalins Using C-H Insertion Reaction (RIKEN Synthetic Organic Chemistry Laboratory; Tokyo Med. and Dental Univ. Graduate School of Medical and Dental Sciences; CREST, JST) ○KOJIMA, Shuntaro; MORITA, Masaki; HIRAI, Go; SODEOA, Mikiko
- 3J1-15** Development of the Methodology to Construct C-ring of Physalins (RIKEN Synthetic Organic Chemistry Laboratory; CREST, JST; Tokyo Med. and Dental Univ. Graduate School of Medical and Dental Sciences; RIKEN CSRS) ○MORITA, Masaki; KOJIMA, Shuntaro; HIRAI, Go; SODEOKA, Mikiko
- 3J1-16***# Synthesis of Taxol (Fac. Sci. Tech., Keio Univ.) ○FUKAYA, Keisuke; SUGAI, Tomoya; YAMAZAKI, Hirohisa; KODAMA, Keisuke; YAMAGUCHI, Yu; SATO, Takaaki; CHIDA, Noritaka

Saturday, March 28, PM

terpenes

Chair: YOSHIMURA, Fumihiko (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(3J1-25, 3J1-26, 3J1-27, 3J1-28, 3J1-29, 3J1-30)
- 3J1-25** Annulation reaction of zerumbone via Favorskii rearrangement (Grad. Sch. Agr. Sci., Kinki Univ.) ○FUKUSHIMA, Miyuki; UTAKA, Yoshimi; TAKAHASHI, Issei; IFUKU, Masashi; KAWAI, Yasushi; KITAYAMA, Takashi
- 3J1-26** Synthetic studies on stronglylophorine analogs (Grad. Sch. Nanobioscience, Yokohama City Univ.) ○UCHIYAMA, Daiki; ISHIKAWA, Yuichi
- 3J1-27** Isolation and Structure Analysis of Novel 9,11-*deco*-steroids from the Sea Hare *Aplysia kurodai* (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○KAWAMURA, Atsushi; KITA, Masaki; KIGOSHI, Hideo
- 3J1-28** Total Synthesis of Sarcophytonolide H (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KIKUCHI, Takahiro; TAKAMURA, Hiroyoshi; KADOTA, Isao
- 3J1-29** Synthetic Studies of Perforatumone (Fac. Sci. Tech., Keio Univ.) ○NAKAJIMA, Tatsuki; ITO, Aya; YOSHIDA, Keisuke; TAKAO, Ken-ichi
- 3J1-30** Synthetic Studies of Guttiferone A (Fac. Sci. Tech., Keio Univ.) ○OKUYAMA, Genki; AKIYA, Takashi; YOSHIDA, Keisuke; TAKAO, Ken-ichi

terpenes

Chair: HIRAI, Go (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(3J1-32, 3J1-33, 3J1-34, 3J1-35, 3J1-36, 3J1-37)
- 3J1-32** Total Synthesis of (+)-Vibsanin A (Fac. Sci. Tech., Keio Univ.) ○NISHIMURA, Yoshiyasu; TSUNODA, Kohei; KURISU, Takuya; SAKAMA, Akihiro; YOSHIDA, Keisuke; TADANO, Kin-ichi; TAKAO, Ken-ichi
- 3J1-33** Synthesis of Clavilactone Analogs (Fac. Sci. Tech., Keio Univ.) ○MOGI, Takuma; YOSHIDA, Keisuke; TAKAO, Ken-ichi; MIYAZAKI, So; SASAZAWA, Yukiko; SIMIZU, Siro
- 3J1-34** Total synthesis of axenol using stereoselective allylic substitution (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○ZAKI, Takuri; ○KOBAYASHI, Yuichi
- 3J1-35** Synthetic Study of Integrifolin (Grad. Sch. Sci., Eng., Tokyo Tech) ○SHIMOMAKI, Katsuya; KUSAMA, Hiroyuki; IWASAWA, Nobuharu
- 3J1-36** Studies directed toward the enantioselective synthesis of brasilicardin A aglycone (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○ITOH, Ryusei; TORIZUKA, Makoto; MORI, Genki; YOSHIMURA, Fumihiko; TANINO, Keiji
- 3J1-37** Research on the Enantioselective Total Synthesis of Cotylenin A (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○NAGATANI, Kotaro; NAKADA, Masahisa

terpenes

Chair: YOSHIDA, Keisuke (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(3J1-39, 3J1-40, 3J1-41, 3J1-42, 3J1-43, 3J1-44)
- 3J1-39** Synthetic Studies of Itol A using Pinacol Coupling Reaction (Grad. Sch. Life Sci., Tohoku Univ.) ○MINOTA, Yoshinobu; XU, Shu; ITTO, Kaori; ARIMOTO, Hirokazu
- 3J1-40** Synthetic Studies on Amomaxin B (Grad. Sch. Life Sci., Tohoku Univ.) ○NINOMIYA, Ryota; ITTOU, Kaori; ARIMOTO, Hirokazu
- 3J1-41** Synthetic studies on cyathins (Grad. Sch. Life Sci., Tohoku Univ.) ○MIZUNO, Shota; ITTO, Kaori; ARIMOTO, Hirokazu
- 3J1-42** Development of Concise Asymmetric Synthetic Route to 6-Azartemisinins (Fac. Sci., Hokkaido Univ.; Kitasato Univ.) ○SUZUKI, Shun; HIRUMA, Takahisa; MIZOGUCHI, Haruki; OCHIAI, Kyohei; ISHIYAMA, Aki; IWATSUKI, Masato; OTOGURO, Kazuhiko; OMURA, Satoshi; OGURI, Hiroki; OIKAWA, Hideaki
- 3J1-43*** Syntheses of All-*trans* Dolichol Analogs (Grad. Sch. Sci., Osaka City Univ.) ○TOTSUKA, Yusuke; SHINADA, Tetsuro
- 3J1-44*** Development of Novel E-β-Ethynylvinylstannane for Cross Coupling Reaction and Efficient Synthesis of Peridinin Derivatives (Grad. Sch. Sci., Osaka City Univ.) ○KINASHI, Naoto; SAKAGUCHI, Kazuhiko; SHINADA, Tetsuro; KATSUMURA, Shigeo

terpenes

Chair: OGURI, Hiroki (16 : 30~17 : 20)

- * 16:20-16:30: interval for laptop PC connection.(3J1-46, 3J1-47, 3J1-48, 3J1-49, 3J1-50)
- 3J1-46** Computational and X-ray diffraction investigation of (all-*E*)-lycopene (Sch. Eng., The Univ. of Shiga Pref.) KITAMURA, Chitoshi; ○KUWA, Takahiro; INOUE, Yoshinori; TAKEHARA, Munenori
- 3J1-47** Structure Determination and Chemical Synthesis of the Sperm Activating and Attracting Factor Isolated from the Ascidian *Ascidia sydneiensis* (Grad. Sch. Sci., Kyushu Univ.) ○WATANABE, Tomohiro; EBINE, Makoto; SHIBATA, Hajime; TSUCHIKAWA, Hiroshi; MATSUMORI, Nobuaki; MURATA, Michio; YOSHIDA, Manabu; MORISAWA, Masaaki; OISHI, Tohru
- 3J1-48** Stereochemistry of the Dehydrogenation in the Formation of 22-Unsaturated Sterols in Higher Plants (Grad. Sch. Sci., Eng., Tokyo Tech) TSUKAGOSHI, Yuki; MASUBUTI, Hironori; MASATANI, Chieko; OHYAMA, Kiyoshi; ○FUJIMOTO, Yoshinori
- 3J1-49** Reduction mechanism of $\Delta^{24(28)}$ -intermediate in C28-plantsterol biosynthesis (Grad. Sch. Sci., Eng., Tokyo Tech) ○TSUKAGOSHI, Yuki; OHYAMA, Kiyoshi; SEKI, Hikaru; MURANAKA, Toshiya; SUZUKI, Hideyuki; FUJIMOTO, Yoshinori
- 3J1-50** Identification of a P450 gene encoding C-22 hydroxylation associated with 20-hydroxyecdysone biosynthesis in *Ajuga hairy root* (Grad. Sch. Sci., Eng., Tokyo Tech) ○OHYAMA, Kiyoshi; TSUKAGOSHI, Yuki; SEKI, Hikaru; MURANAKA, Toshiya; SUZUKI, Hideyuki; FUJIMOTO, Yoshinori

Sunday, March 29, AM

Others

Chair: OHYAMA, Kiyoshi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4J1-01, 4J1-02, 4J1-03, 4J1-05, 4J1-06)
- 4J1-01** Biosynthetic study of phospholipase A2 inhibitor cinatrin (1) (Sch. Sci., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.; Grad. Sch. Agric. Sci., Tohoku Univ.) ○TAKEUCHI, Ichiro; MINAMI, Atsushi; GOMI, Katsuya; OIKAWA, Hideaki
- 4J1-02** Biosynthesis study of fungal dimeric anhydrides using fungal expression system (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.; Grad. Sch. Agric. Sci., Tohoku Univ.) ○FUJII, Ryuya; MINAMI, Atsushi; GOMI, Katsuya; OIKAWA, Hideaki
- 4J1-03*** The reaction mechanism of 3-aminobenzoate synthase in pactamycin biosynthesis (Grad. Sch. Sci., Eng., Tokyo Tech) ○HIRAYAMA, Akane; MIYANAGA, Akimasa; KUDO, Fumitaka; EGUCHI, Tadashi
- 4J1-05** Biosynthetic Study of Antitubercular Agent Hirsutellone(1) (Sch. Sci., Hokkaido Univ.; Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.; Grad. Sch. Agric. Sci., Tohoku Univ.) ○YAMANE, Momoka; FUJII, Ryuya; MINAMI, Atsushi; GOMI, Katsuya; OIKAWA, Hideaki
- 4J1-06*** Genome mining of novel terpenes (Sch. Sci., Hokkaido Univ.; Grad. Sch. Agric. Sci., Tohoku Univ.) ○YE, Ying; MINAMI, Atsushi; CHIBA, Ryouta; GOMI, Katsuya; OIKAWA, Hideaki

Others

Chair: OGURI, Hiroki (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(4J1-08, 4J1-09, 4J1-10, 4J1-11, 4J1-12)

- 4J1-08[#]** Synthetic Studies on Tetrodotoxin Model Compound Using Mercury (II) Triflate-catalyzed Novel Cycloisomerization (Grad. Sch. Sci., Osaka City Univ.) ○MARUYAMA, Takahiro; KIKUCHI, Seiho; KOYAMA, Tomoyuki; NISHIKAWA, Keisuke; TACHI, Yoshimitsu; MORIMOTO, Yoshiaki
- 4J1-09** Synthetic Studies on Tetrodotoxin (Grad. Sch. Sci., Osaka City Univ.) ○KIKUCHI, Seiho; ARAKI, Yusuke; MARUYAMA, Takahiro; YOSHIYAMA, Haruka; NISHIKAWA, Keisuke; TACHI, Yoshimitsu; MORIMOTO, Yoshiaki
- 4J1-10** 2-Naphthylmethoxymethyl (NAPOM) Group -A New Member of the BOM Protecting Group Family- (Kyushu Univ. Department of Chemistry, Faculty of Sciences) ○SATO, Takuya; OISHI, Tohru; TORIKAI, Kohei
- 4J1-11** Synthetic study of phytotoxic natural product foeniculoxin (Fac. Sci., Sophia Univ.) ○EGOSHI, Yuki; SUZUKI, Noriyuki; SUZUKI, Yumiko; MASUYAMA, Yoshiro; USUKI, Toyonobu
- 4J1-12** Synthesis of Deuterated Desmosine for Quantitative Analysis of COPD Biomarker (Fac. Sci., Sophia Univ.; Mount Sinai School of Medicine) ○SUZUKI, Rina; HAYASHI, Takahiro; YANUMA, Hiroto; LIN, Yong Y.; USUKI, Toyonobu

Others

Chair: SAIKAWA, Yoko (11 : 10~12 : 00)

- * 11:00-11:10: interval for laptop PC connection.(4J1-14, 4J1-15, 4J1-16, 4J1-17)
- 4J1-14** Extraction and Isolation of Caffeoylquinic Acids from Sweet Potato Leaves Utilizing an Ionic Liquid (Sophia University Faculty of Science and Technology) ○ONDA, Shingo; FUJITA, Masahiro; RIKUKAWA, Masahiro; USUKI, Toyonobu
- 4J1-15** A study on the search for natural products from dinoflagellate which inhibit protein kinase, GSK-3 β . (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○SUZUKI, Tomoya; YABE, Joto; KAWAZOE, Yoshinori; UEMURA, Daisuke
- 4J1-16** Studies on the search for bioactive substances from marine organisms. (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○KOBAYASHI, Satomi; KAWAZOE, Yoshinori; UEMURA, Daisuke
- 4J1-17*** Structures and biological activities of novel lipopeptides from marine microalgae (Fac. Sci. Tech., Keio Univ.) ○IWASAKI, Arihiro; OHNO, Osamu; SUMIMOTO, Shinpei; SUENAGA, Kiyotake

Room J2

Bldg.5(School of Pharmacy)

Natural Products Chemistry

Thursday, March 26, AM

Fatty acids, polyphenols, and the related compounds

Chair: FUJIWARA, Kenshu (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1J2-01, 1J2-02, 1J2-03, 1J2-04, 1J2-05, 1J2-06)
- 1J2-01** Synthetic study on tomuruline (Fac. Sci. Tech., Keio Univ.) ○KUDO, Chihiro; OHNO, Osamu; SAME, Kyuhei; SUENAGA, Kiyotake
- 1J2-02** Synthetic Study on Actinorhodin, Dimeric Pyranonaphthoquinone Antibiotic (Grad. Sch. Sci., Eng., Tokyo Tech) ○NINOMIYA, Mamiko; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke
- 1J2-03** Regiochemistry in inter- and intramolecular S_NAr reactions of polyfluorinated benzophenone derivatives en route to substituted xanthenes. (Sch. Pharm., TUPLS) ○ITO, Hiromi; FUJIMOTO, Yuuki; HOSHI, Hiroki; DOBASHI, Yasuo; YANAI, Hikaru; ANDO, Yoshio; SUZUKI, Keisuke; MATSUMOTO, Takashi
- 1J2-04** Synthetic Study of Resolvin D4 (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○OGAWA, Narihito; KOBAYASHI, Yuichi
- 1J2-05** Synthetic Study of Resolvin D5 (Grad. Sch. Biosci. Biotech., Tokyo Tech; Grad. Sch. Biosci. Biotech., Tokyo Tech) ○SUGIYAMA, Takuo; OGAWA, Narihito; KOBAYASHI, Yuichi
- 1J2-06** Synthetic study of Arenicolides (3) (Fac. Eng., Kogakuin Univ.) ○SUNAGAWA, Sho; NAITOU, Minako; YASUI, Eiko; MIYASHITA, Masaaki; NAGUMO, Shinji

Chair: YASUI, Eiko (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1J2-08, 1J2-09, 1J2-10, 1J2-11, 1J2-12, 1J2-13)
- 1J2-08** Synthetic Studies of 6-Epipseudomajucinone Using Reductive Cyclization Reaction (Fac. Sci., Tokyo Univ. of Sci.) SHIINA, Isamu; ○SUWA, Yuki; MURATA, Takatsugu; UOSAKI, Kousuke
- 1J2-09** Asymmetric Total Synthesis of AMF-48 by the Stereoselective Intramolecular Diels-Alder (IMDA) and Reductive Amination reactions (Fac. Sci., Tokyo Univ. of Sci.) SHIINA, Isamu; ○TAKANANO, Atsuhiko; TANAKA, Anna; TASAKI, Yasutaka

- 1J2-10** Diversity-oriented Synthesis of Peroxybotcinin Derivatives Having Various Side-chains (Fac. Sci., Tokyo Univ. of Sci.) SHIINA, Isamu; FUJISHIRO, Moe; ○YOSHINAGA, Yutaka; MATSUMOTO, Yuhei
- 1J2-11** Synthetic study on Mururin B (Grad. Sch. Sci., Eng., Tokyo Tech) ○HIROSE, Yuki; FUKUDA, Emi; OHMORI, Ken; SUZUKI, Keisuke
- 1J2-12** Synthetic study of spirofungin A (Grad. Sch. Sci. Eng., Univ. of Toyama) ○MIYAZAWA, Masahiro; SHIMADA, Takahiro; SANGA, Takao; TATSUNO, Ryota; YOKOYAMA, Hajime; HIRAI, Yoshiro
- 1J2-13** Studies toward the Stereoselective Construction of C10-O-C11' Ether Linkage of Nigriganoside A (Fac. Sci., Hokkaido Univ.) FUJIWARA, Kenshu; ○TSUNODA, Takayuki; KINASHI, Naoto; KATOONO, Ryo; SUZUKI, Takanori

Chair: FUJIWARA, Kenshu (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1J2-15, 1J2-16, 1J2-17, 1J2-18, 1J2-19, 1J2-20)
- 1J2-15** An Efficient Synthesis of Carboxylic Esters and Lactones Using Aromatic Acid Anhydrides or Aromatic Acid Halides with Triethylamine in the Presence of a Catalytic Amount of DMAP (Fac. Sci., Tokyo Univ. of Sci.) SHIINA, Isamu; ○TONOI, Takayuki
- 1J2-16** Asymmetric Total Synthesis of (16E,20E)-Eushearilide (Fac. Sci., Tokyo Univ. of Sci.) TONOI, Takayuki; ○KAWAHARA, Ryo; INOHANA, Takehiko; SHIINA, Isamu
- 1J2-17** Asymmetric Total Synthesis of (-)-Astakolactin and Determination of Its Relative Stereochemistry (Fac. Sci., Tokyo Univ. of Sci.) TONOI, Takayuki; ○FUJISHIRO, Moe; YOSHINAGA, Yutaka; MATSUMOTO, Yuhei; SHIINA, Isamu
- 1J2-18** Synthetic Study on Ardimerin; C₂-Symmetric C-Glycoside (Sch. Sci., Tokyo Tech) ○NAKAYAMA, Ryota; TANZER, Eva-maria; AOKI, Yoshifumi; OHMOI, Ken; SUZUKI, Keisuke
- 1J2-19** Development of Macrolactonization Based on Oxidative Activation of 3-Pyrroline Amides (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○YAMAMOTO, Ayaka; SAKAKURA, Akira
- 1J2-20** Synthetic study on antibiotic resistoflavin (Grad. Sch. Sci., Eng., Tokyo Tech) ○NOZUE, Ami; TSUKAMOTO, Tatsuhiro; TAKIKAWA, Hiroshi; SUZUKI, Keisuke

Thursday, March 26, PM

Chair: UEDA, Minoru (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1J2-28, 1J2-29, 1J2-31, 1J2-32)
- 1J2-28** Synthesis of Alkylated Flavonoids and their Application toward Dye-sensitized Solar Cells (Grad. Sch. Info. Sci., Nagoya Univ.) ○KIMURA, Yuki; OYAMA, Kin-ichi; WAKAMIYA, Atsushi; KONDO, Tadao; YOSHIDA, Kumi
- 1J2-29[#]** Improvement of sandwich ELISA detection of ciguatoxins (Grad. Sch. Sci., Osaka Pref. Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) ○TSUMURAYA, Takeshi; HIRAMA, Masahiro; FUJII, Ikuo
- 1J2-31** Structures and biological activities of new biselyngbyaside analogs, from the marine cyanobacterium (Fac. Sci. Tech., Keio Univ.) ○WATANABE, Ayane; OHNO, Osamu; MORITA, Maho; SUENAGA, Kiyotake
- 1J2-32*** Crystal structures of biselyngbyasides in complex with Ca²⁺-pump unveil inhibitory mechanism for Ca²⁺ transport (Fac. Sci. Tech., Keio Univ.; IMCB, The Univ. of Tokyo; JFCR cancer chemotherapy center) ○MORITA, Maho; OGAWA, Haruo; TSUEDA, Junko; OHNO, Osamu; YAMORI, Takao; TOYOSHIMA, Chikashi; SUENAGA, Kiyotake

Chair: UEDA, Minoru (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1J2-35, 1J2-38, 1J2-39, 1J2-40)
- 1J2-35** CSJ Award for Outstanding Young Women Chemists Efficient Synthesis of Valuable Polyketides Featuring Late-stage Skeletal Construction (Fac. Sci. Tech., Keio Univ.) ○SAIKAWA, Yoko
- 1J2-38** Synthesis of biselyngbyasides (Fac. Sci. Tech., Keio Univ.) ○SATO, Eisuke; TANABE, Yurika; NAKAJIMA, Naoya; OHKUBO, Akifumi; SUENAGA, Kiyotake
- 1J2-39** Synthetic study of a marine macrolide koshikalide and determination of absolute configuration (Fac. Sci. Tech., Keio Univ.) ○KUNIFUDA, Kazuki; NAGAMOTO, Masashi; IWASAKI, Arihiro; SUENAGA, Kiyotake
- 1J2-40** Total synthesis and stereochemical reassignment of lyngbyaloside B (Grad. Sch. Life Sci., Tohoku Univ.) ○OKUAKI, Yuta; FUWA, Haruhiko; SASAKI, Makoto

Chair: HATA, Takeshi (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1J2-42, 1J2-43, 1J2-44, 1J2-45, 1J2-46, 1J2-47)
- 1J2-42** Synthetic Study of the WXYZ Ring System of Maitotoxin (Fac. Sci., Kyushu Univ.) ○TOMA, Yoshiki; TORIKAI, Kohei; EBINE, Makoto; OISHI, Tohru
- 1J2-43** Synthetic Studies of the *ent*-LMNO Ring System of Maitotoxin (Fac. Sci., Kyushu Univ.) ○MARUBAYASHI, Riho; TORIKAI, Kohei; EBINE, Makoto; OISHI, Tohru
- 1J2-44** Synthetic Study of the NOPQRS Ring System of Maitotoxin (Fac.

Sci., Kyushu Univ.) ○ONOUE, Hisaaki; ISHIKAWA, Erina; TORIKAI, Kohei; EBINE, Makoto; KONOKI, Keiichi; OISHI, Tohru

- 1J2-45** Development of the Pd(II)-catalyzed cyclization and its application to the synthetic studies of BCD ring of Yessotoxin (Univ. of Toyama, Graduate school of science and engineering) ○YOKOYAMA, Hajime; MORIYAMA, Genki; UEJI, Haruya; KUSUMOTO, Yasuhiro; SUMIYOSHI, Koshiro; MIYAZAWA, Masahiro; HIRAI, Yoshiro
- 1J2-46** An Efficient, Enantioselective Synthesis of Substituted Dibenzocyclooctadiene Derivatives Toward the Synthesis of the Gomisins-Type Lignans (Sch. Pharm., TUPLS) ○INOUE, Asami; YANAGISAWA, Daisuke; SAKAMOTO, Kayo; YAMAGUCHI, Satoru; YANAI, Hikaru; SUZUKI, Keisuke; MATSUMOTO, Takashi
- 1J2-47** Synthetic studies on C22-C48 segment of aflastatin A (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○MURAKOSHI, Sawato; HOSOKAWA, Sejiro

Chair: EBINE, Makoto (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1J2-49, 1J2-50, 1J2-51, 1J2-53, 1J2-54)

- 1J2-49** Formal Total Synthesis of Optically Active Aquayamycin by the Use of Rh-catalyzed C-H Bond Activation (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○HATA, Takeshi; KATSUMI, Keiichi; URABE, Hirokazu
- 1J2-50[#]** Synthetic Studies of (+)-Zincophorin by the Repeated Use of Iron-Catalyzed Methylation (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○KWEK, Cheah Ming; GOTOH, Hideyuki; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
- 1J2-51^{#*}** Rapid Access to Triarylpyridines and Synthesis of GE2270s (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○AMAIKE, Kazuma; YAMAGUCHI, Junichiro; ITAMI, Kenichiro
- 1J2-53** Synthetic Study of Laurallene (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○OKADA, Taku; YOSHIMURA, Fumihiko; TANINO, Keiji
- 1J2-54** Synthetic study of hellinoyl group (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○ISHIMOTO, Takayuki; TSUKASA, Hirokane; YAMADA, Hidetoshi

Friday, March 27, PM

Carbohydrates

Chair: OKAMOTO, Ryo (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(2J2-25, 2J2-26, 2J2-27, 2J2-28, 2J2-29, 2J2-30)

- 2J2-25** Enzymatic transformation of carbohydrate to six-membered carbocycle (Grad. Sch. Sci., Eng., Tokyo Tech) ○MORI, Ayaka; KOIDE, Mai; MIYANAGA, Akimasa; KUDO, Fumitaka; EGUCHI, Tadashi
- 2J2-26** Prebiotic synthesis of carbohydrates by aqueous aldol reaction using water-compatible prolinamide catalysts. (Sch. Sci. Eng., Meisei Univ.) ○BABA, Masakazu; MIURA, Daisuke; FUJIMOTO, Takashi; MACHINAMI, Tomoya
- 2J2-27[#]** Withdrawn
- 2J2-28** Development of glycosylated prodrug of NF- κ B inhibitor DHMEQ (Keio Univ.; Aichi Med. Univ.) ○HANAMURA, Shun; HANAYA, Kengo; SHOJI, Mitsuru; UMEZAWA, Kazuo; SUGAI, Takeshi
- 2J2-29** Synthesis and structural analysis of one of hydrophilic motifs of plant cell wall component, extensin (RIKEN) ○ISHIWATA, Akihiro; KAEOTHIP, Sophon; TAKEDA, Yoichi; ITO, Yukishige
- 2J2-30** Regioselective glycosylation with silylated saccharide acceptor (Grad. Sch. Sci., Eng., Saitama Univ.) ○ITO, Ryo; MATSUMOTO, Takuma; KONOSE, Ryuhei; KOYAMA, Tetsuo; MATSUOKA, Koji; HATANNO, Ken

Chair: HANAYA, Kengo (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(2J2-32, 2J2-33, 2J2-35, 2J2-36, 2J2-37)

- 2J2-32** Synthetic study of N-glycan containing poly lactosamine by use of natural source (Osaka University The department of science; Sch. Sci., Osaka Univ.) ○MIMA, Takanori; MAKI, Yuta; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro
- 2J2-33^{#*}** A systematic synthesis of intact human-type triantennary complex type N-glycans by use of biantennary glycan isolated from natural source (Grad. Sch. Sci., Osaka Univ.) ○MAKI, Yuta; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro
- 2J2-35** Demonstration of neighboring group participation from C-5 in the α selective sialylation (Grad. Sch. Ind. Sci. Technol., Tokyo Univ. of Sci.) ○IDE, Anna; HORITO, Shigeomi; MIZUNOE, Saori
- 2J2-36** An effect of new dianhydro-type protecting groups on α -mannosylation by the neighboring group participation of the acyl group (Grad. Sch. Ind. Sci. Technol., Tokyo Univ. of Sci.) ○OGAWA, Norie; NAKANO, Masanori; HORITO, Shigeomi
- 2J2-37** Neighboring group participation of new dianhydro-type protecting groups in mannosylation reaction. (Grad. Sch. Ind. Sci. Technol., Tokyo Univ. of Sci.) ○NAKANO, Masanori; KIMURA, Moeko; HORITO, Shigeomi

Chair: TAKAHASHI, Daisuke (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(2J2-39, 2J2-40, 2J2-41, 2J2-42, 2J2-43, 2J2-44)

- 2J2-39** α -Selective sialylation using N-acetyl sialyl donor possessing free hydroxyls (Grad. Sch. Sci., Eng., Tokyo Tech) ○AOYAGI, Taku; OHIRA, Shuichi; FUSE, Shinichiro; TANAKA, Hiroshi
- 2J2-40[#]** Additive-assisted glycosylation with triazinyl glycoside donors under Pd-catalyzed reductive conditions (Grad. Sch. Eng., Tohoku Univ.) ○LI, Gefei; NOGUCHI, Masato; SHODA, Shin-ichiro
- 2J2-41** Protection-free Glycosylation of N-Acetyl-2-amino Oligosaccharides (Grad. Sch. Eng., Tohoku Univ.) ○NOGUCHI, Masato; NAGAKI, Marina; LI, Gefei; SHODA, Shin-ichiro
- 2J2-42** Glycosylation Reaction Promoted by Chemical Species *in situ* Generated (Grad. Sch. Eng., Tohoku Univ.) ○MIZUNO, Yuuki; SAITO, Sachie; NOGUCHI, Masato; SHODA, Shin-ichiro
- 2J2-43** Regio and stereoselective synthesis of 3-isopurine nucleosides by using intramolecular glycosylation (Aoyama Gakuin Univ. Graduate School of Science and Engineering) ○ENDO, Sho; ISHIZUKA, Ken; SUGIMURA, Hideyuki
- 2J2-44** Toward the pluramycins: α -Selective synthesis of C-glycosyl vancomamine (Grad. Sch. Sci., Eng., Tokyo Tech) ○SAKAMOTO, Ryu; ANDO, Yoshio; SUZUKI, Keisuke

Chair: NOKAMI, Toshiaki (16 : 30~17 : 20)

* 16:20-16:30: interval for laptop PC connection.(2J2-46, 2J2-47, 2J2-48, 2J2-49, 2J2-50)

- 2J2-46** Development of β -selective glycosylation using 3,6-bridged phenyl thioglycoside (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○FUKUMOTO, Atsushi; TOMABECHI, Yusuke; YAMADA, Hidetoshi
- 2J2-47** Synthetic study of cyclodextrin having 3,6-O-[bibenzyl-2,2'-bis(methylene)]-bridge to each monosaccharide (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TOMABECHI, Yusuke; HIRATA, Yasuaki; YAMADA, Hidetoshi
- 2J2-48** Efficient method for synthesizing 3,6-O-[bibenzyl-2,2'-bis(methylene)]-bridged phenylthioglycoside. (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○IKUTA, Daiki; TOMABECHI, Yusuke; YAMADA, Hidetoshi
- 2J2-49** Highly Stereoselective Synthesis of α -Ribofuranosides (Fac. Eng., Gifu Univ.) ○KAJINO, Rin; OKA, Natsuhisa; ANDO, Kaori
- 2J2-50** Stereoinvertive glycosylations using glycosyl donors bearing 2,6-lactone. (Fac. Sci., Toho Univ.) ○HASHIMOTO, Yusuke; SAITO, Ryota; SASAKI, Kaname

Chair: OKA, Natsuhisa (17 : 30~18 : 20)

* 17:20-17:30: interval for laptop PC connection.(2J2-52, 2J2-53, 2J2-54, 2J2-55, 2J2-56)

- 2J2-52** Direct synthesis of glycosyl azides in aqueous media (Grad. Sch. Eng., Tohoku Univ.) ○KASHIWAGURA, Haruka; NOGUCHI, Masato; KOBAYASHI, Atsushi; SHODA, Shin-ichiro
- 2J2-53** First Synthesis of Unprotected 1,2-Anhydro Sugars (Grad. Sch. Eng., Tohoku Univ.) ○SERIZAWA, Kazunari; NOGUCHI, Masato; KOBAYASHI, Atsushi; SHODA, Shin-ichiro
- 2J2-54** Development of benzyl ether type ionic-liquid tags for electrochemical glycosylation (Fac. Eng., Tottori Univ.) ○SASAKI, Norihiko; NOKAMI, Toshiaki; ITOH, Toshiyuki
- 2J2-55** Efficient Transformation of Chitosan into Alkylglycosides Utilizing Ionic Liquid (Fac. Sci. Tech., Keio Univ.) ○AOYAGI, Manabu; OHBA, Akio; KIMURA, Tomoya; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 2J2-56** Efficient Iodoglycosylation Utilizing Triphenylphosphine as a Novel Reaction Accelerator (Fac. Sci. Tech., Keio Univ.) ○KIMURA, Tomoya; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

Saturday, March 28, AM

Carbohydrates

Chair: MANABE, Yoshiyuki (9 : 00~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3J2-01, 3J2-03, 3J2-04, 3J2-05)

- 3J2-01^{*}** Highly selective cell-targeting strategy by reverse thinking of using the weak glycan interaction (RIKEN Biofunctional Synthetic Chemistry Laboratory; Kazan Univ. A. Butlerov Institute of Chemistry; JST-PRESTO) ○TAICHI, Misako; IMAMAKI, Rie; KIZUKA, Yasuhiko; KITAZUME, Shinobu; TANIGUCHI, Naoyuki; TANAKA, Katsunori
- 3J2-03** Development of the efficient method for the immobilization of the GM3 derivative on the gold plate (Fac. of Sci., Okayama Univ. of Sci.) ○KAMETANI, Akitomo; YAMADA, Haruo
- 3J2-04** Synthesis of inositol phospholipids from *Ascaris suum* using regioselective phosphorylation (Fac. Sci. Tech., Keio Univ.; Grad. Sch. Sci., Osaka Univ.; Fac. Eng., Gifu Univ.) ○SUEHARA, Sae; AIBA, Toshihiko; NAKAGAWA, Shou; SATO, Masaki; MAEKAWA, Yuuki; MURAI, Toshiaki; FUKASE, Koichi; INUKI, Shinsuke; FUJIMOTO, Yukari
- 3J2-05^{*}** Synthesis and biological activity of inositol phospholipid as NKT cell modulator (Grad. Sch. Sci., Osaka Univ.; Fac. Sci. Tech., Keio Univ.; RCMS, Nagoya Univ.; Grad. Sch. Pharm. Sci., Nagoya Univ.; Bernhard Nocht Institute for Tropical Medicine) ○AIBA, Toshihiko; SUEHARA, Sae;

SATO, Masaki; TANAKA, Shinji; KITAMURA, Masato; BERNIN, Hannah; LOTTER, Hanna; INUKI, Shinsuke; FUKASE, Koichi; FUJIMOTO, Yukari

Chair: INUKI, Shinsuke (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3J2-08, 3J2-10, 3J2-12, 3J2-13)

3J2-08* Development of novel tumor immunotherapy using synthetic α -Gal epitope as an adjuvant (Grad. Sch. Sci., Osaka Univ.) OLI, Haosheng; MANABE, Yoshiyuki; TOKUNAGA, Kento; NONAKA, Yuji; TERAOKA, Naoko; TAKAMATSU, Shinji; TANEMURA, Masahiro; MIYOSHI, Eiji; FUKASE, Koichi

3J2-10* Full Synthetic Self-Adjuvanting N-modified sTn Antigen Based Anticancer Vaccine (Grad. Sch. Sci., Osaka Univ.) OCHANG, Tsung-che; MANABE, Yoshiyuki; FUJIMOTO, Yukari; FUKASE, Koichi

3J2-12 Deoxygenation Mechanism at C-3' in Apramycin Biosynthesis (Grad. Sch. Sci., Eng., Tokyo Tech) OTOKUMITSU, Takahiro; KUDO, Fumitaka; EGUCHI, Tadashi

3J2-13 Epimerization Mechanism at C-3" in Butirosin Biosynthesis (Grad. Sch. Sci., Eng., Tokyo Tech) OTAKEISHI, Ryohei; NUMAKURA, Mario; KUDO, Fumitaka; EGUCHI, Tadashi

Fatty acids, polyphenols, and the related compounds

Chair: KOBAYASHI, Shoji (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3J2-15, 3J2-17, 3J2-18, 3J2-19, 3J2-20)

3J2-15* Neighboring effect of intramolecular chloride toward epoxide opening reaction (Fac. Env. Earth Sci., Hokkaido Univ.) OSHIBATA, Masayuki; UMEZAWA, Taiki; MATSUDA, Fuyuhiko

3J2-17 Synthetic study on naphthospirozone A (1) : Model study for construction of unique spirobicyclo[3.2.1] octane skeleton (Grad. Sch. Sci., Eng., Tokyo Tech) OSAKATA, Juri; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke

3J2-18 Synthetic studies on naphthospirozone A (2) : An approach toward the convergent synthesis (Grad. Sch. Sci., Eng., Tokyo Tech) OWATANABE, Daisuke; SAKATA, Juri; ANDO, Yoshio; OMORI, Ken; SUZUKI, Keisuke

3J2-19 Z-Selective intramolecular Horner-Wadsworth-Emmons reaction for the synthesis of macrocyclic lactones (Fac. Eng., Gifu Univ.) OSAKAI, Kenta; EGUCHI, Yuma; ANDO, Kaori

3J2-20 Construction of Tricyclic Skeleton of Trioxacarcins featuring Diels-Alder Reaction (Fac. Sci. Tech., Keio Univ.) OINOMATA, Daiki; ASAKURA, Eri; YAKATA, Naokazu; ONOZUKA, Masao; SEKIGUCHI, Natsuhisa; ITO, Araka; KAWAI, Ryuichiro; SAIKAWA, Yoko; NAKATA, Masaya

Saturday, March 28, PM

Chair: UMEZAWA, Taiki (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3J2-28, 3J2-29, 3J2-30, 3J2-31, 3J2-32, 3J2-33)

3J2-28 Synthetic Studies of Molecular Probes Based on the Partial Structure of Amphidinol 3 (Fac. Sci., Kyushu Univ.) OTAKADA, Yurii; EBINE, Makoto; OISHI, Tohru

3J2-29 Synthetic study of amphidinol 3 (Fac. Sci., Kyushu Univ.) OTSURUDA, Takeshi; TAKADA, Yurii; YANAI, Naoto; WAKAMIYA, Yuma; EBINE, Makoto; OISHI, Tohru

3J2-30 Synthetic Study on Phenalenone-Derived Heptaketide, Atrovnetinone (Grad. Sch. Sci., Eng., Tokyo Tech) OATSUSHITA, Kyohei; OHMORI, Ken; SUZUKI, Keisuke

3J2-31 Synthetic study on antibiotic tetracenomycin C (Tokyo Tech Graduate School of Science and Technology) OSATO, Shogo; HASHIMOTO, Yoshimitsu; TAKIKAWA, Hiroshi; SUZUKI, Keisuke

3J2-32 Synthetic Study of 6,5,5-Bispiroacetal Ring of Spirolide C by Stereoselective Acetalization of Conformationally Restricted Substrates (Grad. Sch. Sci., Osaka Univ.) OYASUKAWA, Yoshifumi; TSUCHIKAWA, Hiroshi; WAKISAKA, Tomohiro; MURATA, Michio

3J2-33 Synthetic Study of (-)-Dactylolide (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) OTANAKA, Tokihiro; MURAI, Yuto; TAKAMURA, Hiroyoshi; KADOTA, Isao

Chair: ANDO, Yoshio (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(3J2-35, 3J2-36, 3J2-37, 3J2-39, 3J2-40)

3J2-35 Synthesis of optically active 3-O-acylated catechin analogues using oxidative cyclization reaction (Grad. Sch. Sci., Eng., Tokyo Tech) OSHIRAIISHI, Nana; FUSE, Shinichiro; TANAKA, Hiroshi

3J2-36 Study of C-glycosylation in water to synthesize C-glycosyl polyphenols (Grad. Sch. Sci., Eng., Tokyo Tech) OHAMAGAMI, Hiroki; TANAKA, Hiroshi; FUSE, Shinichiro

3J2-37* Total synthesis of (+)-Rishirilide B (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OODAGI, Minami; FURUKORI, Kota; NAGASAWA, Kazuo

3J2-39 Asymmetric total synthesis of podophyllic aldehydes (Fac. Textile Sci. Technol., Shinshu Univ.) OITO, Junki; MURAMATSU, Yuta; NISHI,

Yoshinori

3J2-40 Synthesis and Physiological Activities of Phenylpropanoids in *Corcepsis lanceolata* L. Petals (Fac. Eng., Kinki Univ.) OKADA, Yoshiharu; OKANDORI, Naomi; KATAOKA, Naoya; OKANO, Yuka; NOMURA, Masato

Chair: TORIKAI, Kohei (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(3J2-42, 3J2-43, 3J2-44, 3J2-45, 3J2-46, 3J2-47)

3J2-42 Total synthesis of (-)-spiroxin C (Grad. Sch. Sci., Eng., Tokyo Tech) OANDO, Yoshio; HANAKI, Atsuko; OHMORI, Ken; SUZUKI, Keisuke

3J2-43 Synthetic studies on spiroxin A (Tokyo Tech Department of Chemistry, Faculty of Science) OSASAKI, Ryota; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke

3J2-44 Synthetic Study of 6-Chlorotetrahydrofuran Acetogenin toward the Stereostructural Determination (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) OKAMOTO, Kazuki; TAKAMURA, Hiroyoshi; KADOTA, Isao

3J2-45 Concise Synthesis of the C15-C38 Fragment of Okadaic Acid (Grad. Sch. Life Sci., Tohoku Univ.) OSAKAMOTO, Keita; FUWA, Haruhiko; SASAKI, Makoto

3J2-46 Synthetic Study on Unusual C-19 Fatty Acids by Alkyne-zipper Reaction (Grad. Sch. Eng., Iwate Univ.) SHIMADA, Kazuaki; OSUGAWARA, Ayako; KORENAGA, Toshinobu; KAWASHIMA, Hideki

3J2-47 Total synthesis of artemillin C (Fac. Pharm., Keio Univ.) OYASHIRO, Kazuki; HANAYA, Kengo; SHOJI, Mitsuru; SUGAI, Takeshi

Sunday, March 29, AM

Fatty acids, polyphenols, and the related compounds

Chair: HAYAKAWA, Ichiro (9 : 00~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4J2-01, 4J2-02, 4J2-03, 4J2-04, 4J2-05, 4J2-06)

4J2-01 Synthetic studies on Quartromicins: antibiotics possessing macrocyclic carbon framework (Sch. Sci., Tokyo Tech) OTAKAHASHI, Ryo; OHMORI, Ken; SUZUKI, Keisuke

4J2-02 Formal Enantioselective Total Synthesis of Nemorosone, Garsubellin A, Clusianone and Hyperforin (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) OUETAKE, Yuta; UWAMORI, Masahiro; NAKADA, Masahisa

4J2-03 Design and synthesis of Aplyronine A analogs to induce protein-protein interaction (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OFUTAKI, Kentaro; TANABE, Kenta; YONEDA, Kozo; KITA, Masaki; KIGOSHI, Hideo

4J2-04 Effective synthesis of asymmetric HHDP group (Sch. Sci. Tech., Kwansai Gakuin Univ.) OKONISHI, Hayato; HIROKANE, Tsukasa; YAMADA, Hidetoshi

4J2-05 Studies on the total synthesis of hericenones C-H (Fac. Eng., OIT) OYASUMOTO, Takeshi; MASUYAMA, Araki; KOBAYASHI, Shoji

4J2-06 Synthetic study on anthraquinone-xanthone bridged dimers (Grad. Sch. Sci., Eng., Tokyo Tech) OHIRANO, Yoichi; TOKUDOME, Kenji; TAKIKAWA, Hiroshi; SUZUKI, Keisuke

Chair: MINAMI, Atsushi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4J2-08, 4J2-09, 4J2-10, 4J2-11, 4J2-12)

4J2-08 Structure-Activity Relationship Study of Glaziovianin A: An Antitumor Active Isoflavone (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; Grad. Sch. Life and Env. Sci., Univ. of Tsukuba) OHATANAKA, Taisei; SHIODA, Shuya; CHINEN, Takumi; USUI, Takeo; KIGOSHI, Hideo; HAYAWA, Ichiro; SAKAKURA, Akira

4J2-09 Functional Analysis of Hitachimycin Biosynthetic Genes (Grad. Sch. Sci., Eng., Tokyo Tech) OKAWAMURA, Koichi; MIYANAGA, Akimasa; KUDO, Fumitaka; EGUCHI, Tadashi

4J2-10 Mutasythesis of hitachimycin analogues by feeding unnatural substrates. (Tokyo Tech) OHAYAKAWA, Yuki; KAWAMURA, Koichi; MIYANAGA, Akimasa; KUDO, Fumitaka; EGUCHI, Tadashi

4J2-11 Characterization of a post-PKS enzymes involved in the biosynthesis of 16-membered macrolide FD-891 (Grad. Sch. Sci., Eng., Tokyo Tech) OFURUYA, Takashi; KAWAMURA, Koichi; MIYANAGA, Akimasa; KUDO, Fumitaka; EGUCHI, Tadashi

4J2-12* Ion channel activity of novel amphotericin B derivative toward elucidating the interaction of its polyol moiety (Grad. Sch. Sci., Osaka Univ.) OYAMAMOTO, Tomoya; UMEGAWA, Yuichi; TSUCHIKAWA, Hiroshi; HANASHIMA, Shinya; MURATA, Michio; MATSUMORI, Nobuaki; PATRICK, Caffrey

Chair: SHOJI, Mitsuru (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4J2-15, 4J2-16, 4J2-18, 4J2-19, 4J2-20)

4J2-15 New Structural Determination Method of Proanthocyanidins by MS/MS Analysis (Grad. Sch. Sci., Eng., Tokyo Tech) OHAMAOKA, Kazuki; TAKAHASHI, Haruko; KUSUMI, Takenori; OHMORI, Ken; SUZUKI, Keisuke

- 4J2-16*** Synthetic studies on stable analogue of Pectenotoxin-2 (Fac. Sci., Hokkaido Univ.) ○SUZUKI, Yuki; FUJIWARA, Kenshu; KATOONO, Ryo; SUZUKI, Takanori
- 4J2-18** Toward the second generation synthesis of aplyronine A (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SAITO, Keita; MATSUMOTO, Sachiko; KOBAYASHI, Shinichi; KANEKO, Takahiro; TANIGUCHI, Ayaka; KOBAYASHI, Kenichi; FUJII, Yusuke; HAYAKAWA, Ichiro; KIGOSHI, Hideo
- 4J2-19** Synthetic study and structural revision of antitumor pleospdione (Grad. Sch. Sci., Eng., Tokyo Tech) ○ISHIKAWA, Yui; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 4J2-20** Synthetic studies of an aplyronine A-swinholide A hybrid compound (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○OGURA, Tomotaka; TAKENO, Koichi; EBIHARA, Yuta; HAYAKAWA, Ichiro; KIGOSHI, Hideo

Room J3

Bldg.5(School of Pharmacy)

Biofunctional Chemistry ; Biotechnology

Thursday, March 26, AM

Medical biotechnology

Chair: MIURA, Yoshiko (9 : 20 ~ 10 : 20)

- * 9:10-9:20: interval for laptop PC connection.(1J3-03, 1J3-04, 1J3-05, 1J3-06, 1J3-07)
- 1J3-03** Enhanced Adjuvant Activity of Double-stranded RNAs by the Immobilization onto Gold Nanoparticles (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○TAZAKI, Taiyu; NIIKURA, Kenichi; SUZUKI, Tadaki; OHARA, Yuki; KOBAYASHI, Shintaro; ORBA, Yasuko; MITOMO, Hideyuki; SAWA, Hirofumi; IJIRO, Kuniharu
- 1J3-04** Development of Photo Dynamic Therapy and Diagnosis using Lanthanide nanoparticles (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○SAWAMURA, Takashi; TANAKA, Tatsumi; ISHIGE, Hiroyuki; AZUMA, Kenta; OGURA, Shun-ichiro; OHKUBO, Akihiro; YUASA, Hideya
- 1J3-05** Effect of Poly(Acrylic Acid) on Hydroxyapatite Mineralization in Simulated Body Fluids (Fac. Eng., Tokyo Univ. of Sci.) ○SUZUKI, Keisuke; IJIMA, Kazutoshi; IZUMI, Takaaki; HASHIZUME, Mineo
- 1J3-06** Preparation of Hydroxyapatite-coated Polystyrene Substrates Using Alternate Soaking Process and Simulated Body Fluid (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○SUZUKI, Ryo; IJIMA, Kazutoshi; KOMORI, Akinori; HASHIZUME, Mineo
- 1J3-07*** Prolonged functional lifespan of artificial red cells by using the electron energies produced by erythrocyte glycolysis (Nara Med. Univ.) ○SAKAI, Hiromi; KETTISEN, Karin; IGA, Yumika

Chair: HASHIZUME, Mineo (10 : 30~11 : 30)

- * 10:20-10:30: interval for laptop PC connection.(1J3-10, 1J3-12, 1J3-14)
- 1J3-10*** Development of Enzyme-loaded PICsomes for Enzyme Prodrug Therapy (Grad. Sch. Eng., The Univ. of Tokyo) ○ANRAKU, Yasutaka; KISHIMURA, Akihiro; KAMIYA, Mako; TANAKA, Sayaka; NOMOTO, Takahiro; FUKUSHIMA, Shigeto; TOH, Kazuko; MATSUMOTO, Yu; KANO, Mitsunobu; URANO, Yasuteru; NISHIYAMA, Nobuhiro; KATAOKA, Kazunori
- 1J3-12*** Biological features and anti virus activity of the human catalytic antibody light chain library 23D4 mutant (Fac. Eng., Oita Univ.) ○UDA, Taizo; MATSUMOTO, Shingo; HIFUMI, Emi
- 1J3-14*** Withdrawn

Chair: KASAI, Hitoshi (11 : 40~12 : 10)

- * 11:30-11:40: interval for laptop PC connection.(1J3-17, 1J3-18, 1J3-19)
- 1J3-17** The effect of 5-aminolevulinic acid and resveratrol on mitochondrial biogenesis / function (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○MIURA, Mai; SUGIYAMA, Yuta; TANAKA, Tohru; OKURA, Ichiro; OGURA, Shun-ichiro
- 1J3-18** Mineralization Behavior of Calcium Phosphate from Simulated Body Fluids by Polymer Nano Particles Presenting Carboxylic Acid Groups (Fac. Eng., Tokyo Univ. of Sci.; Grad. Sch. Eng., Kyushu Univ.) ○IJIMA, Kazutoshi; KOMARU, Kanae; HOSHINO, Yu; MIURA, Yoshiko; HASHIZUME, Mineo
- 1J3-19** Preparation of Osteopontin-derived SVVYGLR Peptide Modified Chitosan Films and Culture of Mesenchymal Stem Cell Thereon (Fac. Eng., Tokyo Univ. of Sci.; Natl. Cent. For Child Health and Dev.) ○OCHI, Kentaro; IJIMA, Kazutoshi; KIYOKAWA, Nobutaka; HASHIZUME, Mineo

Thursday, March 26, PM

Protein

Chair: TOMIZAKI, Kin-ya (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1J3-28, 1J3-29, 1J3-30, 1J3-32, 1J3-33)
- 1J3-28** Functional Analysis of Catalytic Antibody 7B9 Catalyzing the Hydrolysis of *p*-Nitrobenzyl Ester (Grad. Sch. Sci., Osaka Pref. Univ.; Tokyo Med. and Dental Univ.) ○MIYAMOTO, Naoki; TSUMURAYA, Takeshi; ITO, Nobutoshi; FUJII, Ikuo
- 1J3-29** Chemical features of highly purified human catalytic antibody light chain of #7 clone (Grad. Sch. Eng., Oita Univ.) ○NAKASHIMA, Hiroki; UDA, Taizo; HIFUMI, Emi
- 1J3-30*** Domain library approach for speedy design of smart therapeutic antibody (Grad. Sch. Eng., Tohoku Univ.) SUGIYAMA, Aruto; NAKAZAWA, Hikaru; ASANO, Ryutarō; KUMAGAI, Izumi; ○UMETSU, Mitsuo
- 1J3-32** Investigation of the antigen recognition by anti-EDTA single-chain Fv CHA255 (Grad. Sch. Eng., The Univ. of Tokyo) ○YOSHIDA, Ryosuke; AKIBA, Hiroki; TSUMOTO, Kouhei
- 1J3-33** Fluorescence ratio detection of antigen using double-labeled scFv with various fluorophore pairs. (Sch. Mat. Sci., JAIST) ○YOSHIKOSHI, Kensuke; HOHSAKA, Takahiro

Chair: GOTO, Yuki (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1J3-35, 1J3-36, 1J3-37, 1J3-39, 1J3-40)
- 1J3-35** Analysis of inclusion behavior of fluorescent nanoparticles into artificial viral capsid (Grad. Sch. Eng., Tottori Univ.) ○FUJITA, Seiya; MATSUURA, Kazunori
- 1J3-36** Construction of artificial viral capsid dressed-up with gold nanoparticles (Grad. Sch. Eng., Tottori Univ.) ○UENO, Genki; FUJITA, Seiya; MATSUURA, Kazunori
- 1J3-37*** Fabrication of titania nanoarchitectures by peptide templating and carbonous materials modification (Fac. Sci. Tech., Ryukoku Univ.) UNO, Kosei; IMAI, Takahito; ○TOMIZAKI, Kin-ya
- 1J3-39** Functionalization of sugar-modified ZnO nanofibers synthesized by peptide templating (Fac. Sci. Tech., Ryukoku Univ.) ○NISHIZAWA, Koki; IMAI, Takahito; TOMIZAKI, Kin-ya
- 1J3-40** Collagen model peptide with cell recognition region was designed, synthesized, and attached to hydroxyapatite surfaces (Fac. Sci. Tech., Ryukoku Univ.) ○GODA, Itsuki; IMAI, Takahito; TOMIZAKI, kin-ya

Chair: UMETSU, Mitsuo (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1J3-42, 1J3-43, 1J3-44, 1J3-45, 1J3-46, 1J3-47)
- 1J3-42** Construction of novel methods for monomerization and fibrillation of amyloid peptides using a photo-labile linker (FIRST, Konan Univ.) ○HIKIDA, Shin-ya; OKAHIRA, Riko; USUI, Kenji
- 1J3-43** Construction of novel nano structures using guanine-rich DNAs and amyloid β peptides (Konan Univ. FIRST) ○SHIMOOKA, Masayuki; OKADA, Arisa; YANAGIHARA, Taishi; USUI, Kenji
- 1J3-44** Novel concentration quenching-based substrates for protease (Grad. Sch. Life Sci. Sys. Eng., KIT) ○SATO, Daisuke; WU, Zhe; KATO, Tamaki
- 1J3-45** Selection of peptides which bind to microRNA precursors (Grad. Sch. Sci., The Univ. of Tokyo) ○OZAWA, Naoya; KATO, Takayuki; SUGA, Hiroaki
- 1J3-46** In vitro selection of peptides catalyzing dehydrogenation of alcohols (Grad. Sch. Sci., The Univ. of Tokyo) ○YOKOSUKA, Ryota; GOTO, Yuki; SUGA, Hiroaki
- 1J3-47** Discovering peptide agonist of IL28RA expressed on cell membrane (Grad. Sch. Sci., The Univ. of Tokyo) ○ISHIDA, Satoshi; HIRATA, Yuichi; KATO, Takayuki; KOHARA, Michinori; SUGA, Hiroaki

Chair: USUI, Kenji (17 : 00~17 : 50)

- * 16:50-17:00: interval for laptop PC connection.(1J3-49, 1J3-51, 1J3-52, 1J3-53)
- 1J3-49*** Development of post-translational modification reactions toward in vitro synthesis of peptides with heterocyclic backbones (Grad. Sch. Sci., The Univ. of Tokyo; PRESTO, JST) ○KATO, Yasuharu; GOTO, Yuki; SUGA, Hiroaki
- 1J3-51** Synthesis and analysis of intracellular molecular dynamics probe containing lipid modified peptide (Fac. Sci., Fukuoka Univ.) SHIOJI, Kosei; ○TOYOFUKU, Shuhei; ANDO, Setsuko; NAGAHORA, Noriyoshi; OKUMA, Kentaro; NAKAGAWA, Hiroyuki; AIZAWA, Yasunori
- 1J3-52** Construction of cryptand library via the Gp10 based-thioetherification (10BASE₄-T) (Sci. Eng., The Univ. of Electro-Communications) ○MOCHIZUKI, Kazuto; ITO, Yuji; MINAMI, Michiko; TAKI, Masumi
- 1J3-53** Synthesis of polycyclic peptides by using a post-translational modification enzyme ProcM (Grad. Sch. Sci., The Univ. of Tokyo) ○HASHIMOTO, Atsushi; GOTO, Yuki; SUGA, Hiroaki

Chair: MIZUNO, Toshihisa (18 : 00~18 : 30)

* 17:50-18:00: interval for laptop PC connection.(1J3-55, 1J3-56, 1J3-57)

1J3-55 Assembly of Zinc Chlorin c6 within Hexameric Hemoprotein Matrix (Grad. Sch. Eng., Osaka Univ.) ○MASHIMA, Tsuyoshi; OOHORA, Koji; HAYASHI, Takashi

1J3-56 Immobilization of Photosystem I on a gold electrode by using Au binding peptides (Ctr. For Fostering Young and Innovative Researchers, Nagoya Inst. of Tech.) ○KONDO, Masaharu; IMANAKA, Hiroyuki; YOSHIDA, Kaori; KURODA, Hiroshi; TAKAHASHI, Yuichiro

1J3-57 Isolation of Various Chlorosomes and FMO Proteins Toward Construction of Artificial Photosynthetic Systems (Ritsumeikan Univ. Graduate School of Life Sciences) ○RYONO, Misaki; HARADA, Jiro; TSUKATANI, Yusuke; MIZOGUCHI, Tadashi; TAMIaki, Hitoshi

Friday, March 27, AM

Protein

Chair: YOSHINO, Tomoko (9 : 00 ~9 : 50)

* 8:50-9:00: interval for laptop PC connection.(2J3-01, 2J3-02, 2J3-03, 2J3-04, 2J3-05)

2J3-01 Genome editing in *Escherichia coli* by sandwiched zinc finger nucleases (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KAI, Tsubasa; SHIMIZU, Kaho; OHNO, Serika; MORI, Tomoaki; MORI, Koichi; TOBIMATU, Takamasu; SERA, Takashi

2J3-02 Development of a site-specific gene insertion method using an artificial zinc-finger protein (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○NAKAO, Taishu; SUMIKAWA, Tatsuhiro; KAWAMURA, Tomoaki; MORI, Tomoaki; MORI, Koichi; TOBIMATSU, Takamasu; SERA, Takashi

2J3-03 Design of disulfide bonds in protein crystals for construction of supramolecular architectures (Grad. Sch. Biosci. Biotech., Tokyo Tech; KIT) ○NEGISHI, Hashiru; ABE, Satoshi; MORI, Hajime; UENO, Takafumi

2J3-04 Development of DNA curtain technique for single-molecule fluorescence imaging of DNA binding proteins (IMRAM, Tohoku Univ.) ○IGARASHI, Chihiro; MURATA, Agato; TAKAHASHI, Satoshi; KAMAGATA, Kiyoto

2J3-05 Development of methods to express posttranslationally modified recombinant proteins in *E. coli* (Fac. Sci., Tokyo Univ. of Sci.) KOJIMA, Hayao; ○SHIBATA, Atsushi; HOSHINO, Hidekazu; TORIGOE, Hidetaka

Chair: TAKEOKA, Shinji (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(2J3-07, 2J3-09, 2J3-10, 2J3-11)

2J3-07* Proton-coupled extracellular electron transport in *Shewanella oneidensis* MR-1 (Fac. Eng., The Univ. of Tokyo) ○OKAMOTO, Akihiro; TOKUNOU, Yoshihide; HASHIMOTO, Kazuhito

2J3-09 Construction of protein nanoparticles for biosensing (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○IKEDA, Yusuke; MASHIMO, Yasumasa; MIE, Masayasu; KOBATAKE, Eiry

2J3-10 Development of nerve growth factor receptor-displaying bacterial magnetic particles towards ligand hunting (Inst. Eng., Tokyo Univ. of Agri. and Technol.) ○KASHIMA, Daiki; HONDA, Toru; MAEDA, Yoshiaki; TANAKA, Tsuyoshi; YOSHINO, Tomoko

2J3-11* Purification and adhesion analysis of the nanofiber protein AtaA from a highly adhesive bacterium (Grad. Sch. Eng., Nagoya Univ.) ○YOSHIMOTO, Shogo; NAKATANI, Hajime; HORI, Katsutoshi

Chair: HORI, Katsutoshi (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(2J3-14, 2J3-15, 2J3-17, 2J3-18)

2J3-14 Development of protein scaffold for three-dimensional tissue construction (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○MIZUGUCHI, Yoshinori; MIE, Masayasu; MASHIMO, Yasumasa; KOBATAKE, Eiry

2J3-15** Optogenetic control of axonal outgrowth direction *in vivo* (Grad. Sch. Sci., The Univ. of Tokyo) ○ENDO, Mizuki; HATTORI, Mitsuru; OZAWA, Takeaki

2J3-17 Immobilization of halophilic glucoamylase using polymer containing cationic side chains (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○MURAOKA, Suomi; ITO, Hidehiro; NAKAMURA, Satoshi; KAMACHI, Toshiaki

2J3-18* Construction and Gliding of MOF-Molecular Motor Conjugates (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○ITO, Masaki; ISHIWATA, Takumi; KAKUGO, Akira; SADA, Kazuki

Asian International Symposium -Medicinal Chemistry-

Friday, March 27, PM

(14 : 10~14 : 20)

2J3-32# Opening Remarks (Kyushu Univ.) SASAKI, Shigeki (14:10~14:20)

Chair: SASAKI, Shigeki (14 : 20~14 : 50)

2J3-33# Keynote Lecture Unconventional peptide helices with non-traditional building blocks (Yonsei Univ.) Choi, Soo Hyuk (14:20~14:50)

Chair: Watanabe, Kazutoshi (14 : 50~15 : 20)

2J3-36# Invited Lecture A spontaneously blinking fluorophore based on intramolecular spirocyclization for live-cell super-resolution imaging (The Univ. of Tokyo) KAMIYA, Mako (14:50~15:20)

Chair: YOSHIDA, Kazuhiro (15 : 20~16 : 00)

2J3-39# Invited Lecture Design and Optimization of New 3,5-Disubstituted Piperidines as Renin Inhibitors (Daichi Sankyo) MORI, Yutaka (15:20~16:00)

Chair: UTO, Yoshikazu (16 : 00~16 : 30)

2J3-43# Invited Lecture Therapeutic gene modulation using DNA-based transcriptional activators (Kyoto Univ.) NAMASIVAYAM, Ganesh Pandian (16:00~16:30)

Chair: Ishikawa, Minoru (16 : 30~17 : 00)

2J3-46# Invited Lecture Development of Cell Death Control Molecules: Chemical Biology for Cell Death Research (RIKEN) DODO, Kosuke (16:30~17:00)

Chair: UENO, Hiroaki (17 : 00~17 : 30)

2J3-49# Invited Lecture Synthetic Approach to Mimic Membrane Proteins (Tohoku Univ.) MURAOKA, Takahiro (17:00~17:30)

(17 : 30~17 : 40)

2J3-52# Closing Remarks (Mitsubishi Tanabe Pharma Corporation) WATANABE, Kazutoshi (17:30~17:40)

Biofunctional Chemistry ; Biotechnology

Saturday, March 28, AM

Chair: ONO, Shin (9 : 50 ~ 10 : 50)

* 9:40-9:50: interval for laptop PC connection.(3J3-06, 3J3-07, 3J3-08, 3J3-09, 3J3-10, 3J3-11)

3J3-06 pH Dependence on complexation of zinc chlorin and water-soluble polymers (Fac. Sci. Tech., Ryukoku Univ.) MIYATAKE, Tomohiro; ○OKI, Hisato; HASUNUMA, Yuki

3J3-07 Self-aggregation of amphiphilic synthetic zinc chlorins in water-soluble polymer solutions as models of natural chlorosomes. (Fac. Sci. Tech., Ryukoku Univ.) MIYATAKE, Tomohiro; ○KITAMURA, Takehiro

3J3-08 Aggregation behavior of chlorophyll derivatives introduced into a lipid bilayer (Fac. Sci. Tech., Ryukoku Univ.) MIYATAKE, Tomohiro; ○NAKAYAMA, Souichi

3J3-09 Synthesis of Zinc 20-Substituted Chlorophyll Derivatives and Their Self-aggregation (Grad. Sch. Life Sci., Ritsumeikan Univ.) TAMIaki, Hitoshi; ○WADA, Ayaka

3J3-10 Self-aggregates of synthetic zinc chlorophyll derivatives inside mesoporous silica (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○MIYANAGA, Takuya; SHOJI, Sunao; GOTO, Yasutomu; INAGAKI, Shinji; TAMIaki, Hitoshi

3J3-11 Supramolecules of zinc chlorophyll derivatives with chlorosomal chlorophyll self-aggregates (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○SHOJI, Sunao; TAMIaki, Hitoshi

Chair: WADA, Takehiko (11 : 00~12 : 00)

* 10:50-11:00: interval for laptop PC connection.(3J3-13, 3J3-14, 3J3-16)

3J3-13# Demonstration of Light-Harvesting Antenna Function of Zinc Chlorophyll Cyclic Oligomers (Grad. Sch. Sci. Tech., Nihon Univ.) ○SHINOZAKI, Yoshinao; OTSUKI, Joe

3J3-14* Supramolecular Approach to Photosynthetic Primary Processes— Consideration of Photo-Excitation Transition on B800-850 Peripheral Antenna System in Purple Bacteria (Fac. Eng., Shinshu Univ.; Univ. of Toyama Institute of Natural Medicine; Kanazawa Inst. of Tech. Genome Biotechnology Laboratory) ○SUZUKI, Satoshi; UMEZAKI, Masahito; SAWAI, Yusuke; NISHIKIORI, Hiromasa; ONO, Shin

3J3-16 CSJ Award for Young Chemists Development of Stimuli-Responsive Functional Molecules Inspired by Nature (IMRAM, Tohoku Univ.) ○MURAOKA, Takahiro

Saturday, March 28, PM

Chair: TAKANO, Yuta (13 : 10~14 : 10)

* 13:00-13:10: interval for laptop PC connection.(3J3-26, 3J3-27, 3J3-28, 3J3-29, 3J3-30, 3J3-31)

3J3-26 Enzymatic activity of bacteriochlorophyll *a* synthase of green sulfur photosynthetic bacteria: effects of substrates and reaction conditions (Fac. Sci. Eng., Kinki Univ.; PRESTO, JST; Kurume Univ. Sch. of Med.; Grad. Sch. Life Sci., Ritsumeikan Univ.) SAGA, Yoshitaka; ○HIROTA, Keiya; HARADA, Jiro; TAMIaki, Hitoshi

3J3-27 Analysis of removal of bacteriochlorophyll *a* from LH2 proteins of

- purple photosynthetic bacteria (Fac. Sci. Eng., Kinki Univ.; PRESTO, JST) SAGA, Yoshitaka; ○KAWAMURA, Kenji
- 3J3-28** Photosensitized protein damage by riboflavin (Grad. Sch. Eng., Shizuoka Univ.) ○HIRAKAWA, Kazutaka; YOSHIOKA, Takuto
- 3J3-29[#]** Mechanisms and products analysis of the photosensitized oxidative damage of amino acids by phosphorus(V) porphyrin derivatives (Grad. Sch. Sci. Technol., Shizuoka Univ.) ○OUYANG, Dongyan; HIRAKAWA, Kazutaka
- 3J3-30** Synthesis and photo-properties of azobenzene derivative directed to intracellular molecular motor (Fac. Sci., Fukuoka Univ.) ○OZAKI, Masashi; NAKAGAWA, Hiroyuki; NAGAHORA, Noriyoshi; OKUMA, Kentaro; SHIOJI, Kosei
- 3J3-31** Synthesis and characterization of new imidazole-substituted porphyrines (Fac. Eng., Kyushu Univ.) ○KANNEKO, Kazuhiro; ABE, Masaaki; ONO, Toshikazu; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio

Chair: TAMIAMI, Hitoshi (14 : 20~15 : 10)

* 14:10-14:20: interval for laptop PC connection.(3J3-33, 3J3-35, 3J3-37)

- 3J3-33[#]** Modulating amphiphilicity and aggregation properties of photoinduced charge separation triads for control of cell membrane potential (iCeMS, Kyoto Univ.) ○CAI, Ning; TAKANO, Yuta; MURAKAMI, Tatsuya; IMAHORI, Hiroshi
- 3J3-35^{*}** Development of Porphyrin-Fullerene Based Amphiphilic Donor-Acceptor Conjugates for Photocontrol on Cell Membrane Potential (iCeMS, Kyoto Univ.; Fac. Med., Fukuoka Univ.; Grad. Sch. Eng., Kyoto Univ.) ○TAKANO, Yuta; NUMATA, Tomohiro; KENGAKU, Mineko; MURAKAMI, Tatsuya; MORI, Yasuo; IMAHORI, Hiroshi
- 3J3-37** Substituent effects of porphyrin-fullerene linked molecules on photo-induced depolarization of plasma membrane (Sch. Eng., Kyoto Univ.; iCeMS, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○HANAI, Erina; TAKANO, Yuta; NAKAO, Kazuya; MURAKAMI, Tatsuya; IMAHORI, Hiroshi

Chair: SAGA, Yoshitaka (15 : 20~16 : 00)

* 15:10-15:20: interval for laptop PC connection.(3J3-39, 3J3-40, 3J3-41, 3J3-42)

- 3J3-39** Structure and Physical Properties of a Water-Soluble and Saddle-Distorted Porphyrin (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○OHKAWA, Shunpei; ISHIZUKA, Tomoya; OCHIAI, Hidemi; KOTANI, Hiroaki; KOJIMA, Takahiko
- 3J3-40** Observation of the Inclusion Phenomena of the ¹³C-Labeled Methylated Cyclodextrin in the *in vivo*-like Environment (Fac. Sci. Eng., Doshisha Univ.) ○SAITO, Mai; KITAGISHI, Hiroaki; KANO, Koji
- 3J3-41** Synthesis of Reduction-Responsive Cyclophane Oligomers and Their Guest Binding Behavior (Fukuoka Univ. Graduate School of Science) ○NAKAMURA, Yu; KOJIMA, Keiko; HAYASHIDA, Osamu
- 3J3-42** Creation of a Crystalline Coordination Nanotube Based on a β -Sheet Peptide (Grad. Sch. Eng., The Univ. of Tokyo) ○OTSUBO, Yusuke; SAWADA, Tomohisa; FUJITA, Makoto

Sunday, March 29, AM

Chair: KOMATSU, Teruyuki (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4J3-01, 4J3-02, 4J3-03, 4J3-04, 4J3-05, 4J3-06)

- 4J3-01** Induction of Cell Death by Photo-uncaging of Catalytic Hydrogen Peroxide Generator via the Dissociation of Nitric Oxide from Manganese Nitrosyl Complex (Grad. Sch. Eng., Doshisha Univ.) ○IWAMOTO, Yuji; KODERA, Masahito; HITOMI, Yutaka
- 4J3-02** Development and evaluation of cell toxicity of novel cationic porphyrin complexes (Fac. Sci. Eng., Doshisha Univ.) ○HASHI, Natsumi; MIYACHI, Ryosuke; KODERA, Masahito; HITOMI, Yutaka
- 4J3-03** Online evaluation of superoxide radical scavenging activity of column solution composition as studied by HPLC-ESR spin-trapping measurements (KIT Venture Laboratory) ○YAMAGUCHI, Tomoko; MIYAKE, Yusuke; KANAORI, Kanji; TAJIMA, Kunihiko
- 4J3-04** Detection of Hydrogen Peroxidase by Using *N*-Acetylmicroperoxidase-5 (Grad. Sch. Eng., Doshisha Univ.) ○MIYACHI, Ryosuke; KODERA, Masahito; HITOMI, Yutaka
- 4J3-05** Bio-relevant Catalytic Activities of Manganese Salen Complexes that are Stable in Water (Fac. Sci. Eng., Doshisha Univ.) ○YAMAMURA, Ryo; MIYACHI, Ryosuke; IWAMOTO, Yuji; KODERA, Masahito; HITOMI, Yutaka
- 4J3-06** The second-order rate analysis on the reaction occurring between superoxide anion radical and phenolic compounds by a Flow-injection ESR system (KIT) ○YAMASHITA, Tomoyuki; YAMAGUCHI, Tomoko; MIYAKE, Yusuke; KANAORI, Kanji; TAJIMA, Kunihiko

Chair: HITOMI, Yutaka (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4J3-08, 4J3-10, 4J3-11, 4J3-12, 4J3-13)

- 4J3-08^{*}** Design, Synthesis and Photodynamic Activity of Fluorine-containing Phthalocyanines conjugated with Sugars (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○MORI, Satoru; IIDA, Norihito; YOSHIYAMA, Hideyuki; HAYASHI, Masamichi; TOKUNAGA, Etsuko; SHIBATA, Norio
- 4J3-10** Finding a combination of artificial protein and low-molecular-weight

fluorophore as a substitute for the pairing of streptavidin and biotin. (Sci. Eng., The Univ. of Electro-Communications) ○MIDORIKAWA, Taiki; MASUMI, Taki

- 4J3-11** Synthesis of Boron Dipyrinato Complexes Containing B-FC₃ Bond (Grad. Sch. Pharm., The Univ. of Tokyo) ○SHIMIZU, Yusuke; TANIGUCHI, Atsuhiko; OISAKI, Kounosuke; KUNINOBU, Yoichiro; SOHMA, Youhei; KANAI, Motomu
- 4J3-12** Benzophosphole Oxide-Based Radiometric Fluorescent Probe for a Sodium Ion (Grad. Sch. Sci., Nagoya Univ.) ○OGASAWARA, Hiroaki; OSAKI, Hiroshi; TAKI, Masayasu; YAMAGUCHI, Shigehiro
- 4J3-13** Development of Fluorescent Molecular Probes for the Detection of Proteins Based on FRET between Dansyl and Cyanopyranyl Group (AIST Biomedical Research Institute) ○SUZUKI, Yoshio

Room J4

Bldg.5(School of Pharmacy)

Biofunctional Chemistry ; Biotechnology

Thursday, March 26, AM

Environmental biotechnology, food biotechnology, biosensor

Chair: TANAKA, Takeshi (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1J4-01, 1J4-02, 1J4-03, 1J4-05)

- 1J4-01** Highly sensitive and rapid gas biosensor for formaldehyde based on an enzymatic cycling system (Tokyo Metropolitan Ind. Tech. Res. Inst.; SIBATA SCIENTIFIC TECHNOLOGY LTD.) ○TAKIMOTO, Yuki; GESSEI, Tomoko; JO, Nobuaki; MONKAWA, Akira; WADA, Toshiaki; SANARI, Nobuyuki
- 1J4-02** The development of biomolecular detection methods with AIE dye labeled probes. (FIRST, Konan Univ.) ○KAWAMURA, Koji; MATSUMOTO, Ai; NAKAYAMA, Runa; MURASHIMA, Takashi
- 1J4-03^{*}** Molecular electrochemical switching elements for electrochemical bioimaging (Grad. Sch. Environmental Studies, Tohoku Univ.) ○INO, Kosuke; KANNO, Yusuke; YAMADA, Yuta; SHIKU, Hitoshi; MATSUE, Tomokazu
- 1J4-05^{*}** Electrochemical Imaging of Cell Activity Based on Measuring Current and Rest Potential (Grad. Sch. Environmental Studies, Tohoku Univ.) ○KANNO, Yusuke; INO, Kosuke; SAKAMOTO, Chika; INOUE-YASUDA, Kumi; SUDA, Atsushi; KUNIKATA, Ryota; MATSUDAIRA, Masahiko; SHIKU, Hitoshi; MATSUE, Tomokazu

Chair: SHIKU, Hitoshi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1J4-08, 1J4-10, 1J4-12)

- 1J4-08[#]** Development of a Label-Free Immunosensor Based on an Extended-Gate Type Organic Transistor (Grad. Sch. Sci., Eng., Yamagata Univ.; AIST) ○MINAMIKI, Tsukuru; MINAMI, Tsuyoshi; KURITA, Ryoji; NIWA, Osamu; WAKIDA, Shin-ichi; FUKUDA, Kenjiro; KUMAKI, Daisuke; TOKITO, Shizuo
- 1J4-10^{*}** Development of a washing-step-free insulin assay using interacting domains in the primary binding site of insulin receptor (Hiroshima Univ. Institute for Sustainable Sciences and Development) ○SHIGETO, Hajime; IKEDA, Takeshi; KURODA, Akio; FUNABASHI, Hisakage
- 1J4-12^{*}** Single bacterial cell detection based on the efficient DNA extraction technique using surface-modified magnetic nanoparticles (Inst. Eng., Tokyo Univ. of Agri. and Technol.; Yokogawa Electric Corporation Innovation Headquarters) ○MAEDA, Yoshiaki; TOYODA, Takahiro; MOGI, Takeyuki; TAGUCHI, Tomoyuki; TANAAMI, Takeo; HATA, Seiji; MATSUNAGA, Tadashi; TANAKA, Tsuyoshi

protein

Chair: KOMATSU, Teruyuki (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1J4-15, 1J4-17, 1J4-18, 1J4-19, 1J4-20)

- 1J4-15^{*}** Stabilization of β -peptide helices by direct attachment of CF₃ groups to peptide backbones (RIKEN CEMS) ○CHO, Joonil; SAIGO, Kazuhiko; ISHIDA, Yasuhiro
- 1J4-17** A spectroscopic study in self-association of melittin in electrically neutral lipid bilayer (Grad. Sch. Life Sci., Univ. of Hyogo) ○KANADA, Naoki; YANAGISAWA, Sachiko; OGURA, Takashi; TUZI, Satoru
- 1J4-18** Development and evaluation of designer helical peptides that mimic binding sites of pro-apoptotic protein (Grad. Sch. Pharm. Sci., Univ. of Toyama; Fac. Sci., Shizuoka Univ.; Dept. Appl. Chem. Biochem., Kyusyu Sangyo Univ.) ○NOGAMI, Kagayaki; TAKAHAMA, Kentaro; OKUSHIMA, Ayako; FUJIMOTO, Kazuhisa; OYOSHI, Takanori; INOUE, Masahiko
- 1J4-19** Exopeptidase-resistance of side chain cross-linked helical peptides containing D-amino acid residues at their C-termini (Grad. Sch. Pharm. Sci.,

Univ. of Toyama; Fac. Sci., Shizuoka Univ.; Kyushu Sangyo Univ. Dep. Appl. Chem. Biochem.) ○TOKUMARU, Hiroshi; ITOU, Tatsuya; TAKAHAMA, Kentaro; OKUSHIMA, Ayako; OYOSHI, Takanori; FUJIMOTO, Kazuhisa; INOUE, Masahiko

1J4-20 Analysis of the interaction with DNAs for retro-inverso-type, cross-linked helical peptides that are completely resistant to any peptidases (Grad. Sch. Pharm. Sci., Univ. of Toyama; Kyushu Sangyo Univ. Dep. Appl. Chem. Biochem.,) ○TAKATSU, Masato; FUJIMOTO, Kazuhisa; INOUE, Masahiko

Thursday, March 26, PM

protein

Chair: KODERA, Masahito (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1J4-28)

1J4-28 CSJ Award for Creative Works The Chemical Function of Bio-related Copper Active-Oxygen Complexes (Grad. Sch. Eng., Osaka Univ.) ○ITOH, Shinobu

Chair: HAYASHI, Takashi (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1J4-35, 1J4-36, 1J4-38, 1J4-39)

1J4-35 Synthesis of Human Serum Albumin Having a Terpyridyl Group and Its Dimer Formation by Coordination Bond (Chuo Univ. Faculty of Sci. and Eng.) ○SUZUKI, Shun; HAYAKAWA, Akinobu; KOMATSU, Teruyuki

1J4-36[#] Formation of domain-swapped oligomer of *Hydrogenobacter thermophilus* cytochrome *c*₅₅₂ in an expression system. (Grad. Sch. Mat. Sci., NAIST) ○HAYASHI, Yugo; NAGAO, Satoshi; YAMANAKA, Masaru; KOMORI, Hirofumi; HIGUCHI, Yoshiaki; HIROTA, Shun

1J4-38 Elongation of Circulation Time of an Artificial Oxygen Carrier by Conjugating with Serum Albumin (Fac. Sci. Eng., Doshisha Univ.) ○KAWASAKI, Hiroki; KITAGISHI, Hiroaki; KANO, Koji

1J4-39* Heme-dependent Regulation Mechanism for the Target mRNA Binding in Iron Regulatory Protein (IRP) (Grad. Sch. Chi. Sci. and Eng., Hokkaido Univ.; Grad. Sch. Med., Kyoto Univ.) ○WATANABE, Yuta; TAKEDA, Yukiko; UCHIDA, Takeshi; IWAI, Kazuhiro; ISHIMORI, Koichiro

Chair: SAKAI, Hiromi (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1J4-42, 1J4-43, 1J4-44, 1J4-45, 1J4-46, 1J4-47)

1J4-42 Construction of a hetero dimer using chimeric proteins of *Pseudomonas aeruginosa* cyt *c*₅₅₁ and *Hydrogenobacter thermophilus* cyt *c*₅₅₂ (Grad. Sch. Mat. Sci., NAIST) ○NAKANISHI, Tsukasa; YAMANAKA, Masaru; HIROTA, Shun

1J4-43 Specific heme binding-dependent regulation mechanism in Iron Regulatory Protein (Grad. Sch. Chi. Sci. and Eng., Hokkaido Univ.) ○OGURA, Mariko; WATANABE, Yuta; UCHIDA, Takeshi; IWAI, Kazuhiro; ISHIMORI, Koichiro

1J4-44 Oxidative Self-modification of a Tyrosine Residue Introduced near the Copper Active Center (Grad. Sch. Eng., Osaka Univ.) TANIGUCHI, Yuki; ○FUJIEDA, Nobutaka; ITOH, Shinobu

1J4-45 Polymerization of an Alkyne-tethering *de Novo* Hemoprotein by Click Reaction (Grad. Sch. Eng., Osaka Univ.) ○KOGAWA, Taisuke; OOHORA, Koji; HAYASHI, Takashi

1J4-46 Length-control of protein needle reconstructed from bacteriophage T4 (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○TSUBOKAWA, Daisho; FUJITA, Kenta; INABA, Hiroshi; KITAGAWA, Susumu; UENO, Takafumi

1J4-47 Construction of artificial protein needle fused to phage-based tip structure (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○FUKAI, Toshihiro; FUJITA, Kenta; INABA, Hiroshi; KITAGAWA, Susumu; UENO, Takafumi

Chair: UENO, Takafumi (17 : 00~17 : 30)

* 16:50-17:00: interval for laptop PC connection.(1J4-49)

1J4-49 Young Scholar Lectures of CSJ Artificial Biocatalysts Harboring Organometallic Complex within the Protein Cavity (Grad. Sch. Eng., Osaka Univ.) ○ONODA, Akira

Chair: HIROTA, Shun (17 : 40~18 : 30)

* 17:30-17:40: interval for laptop PC connection.(1J4-53, 1J4-55, 1J4-56, 1J4-57)

1J4-53[#] Thioester bond formation in ribosome (Grad. Sch. Sci., The Univ. of Tokyo) ○TAKATSUJI, Ryo; KATO, Takayuki; SUGA, Hiroaki

1J4-55 Developed of boron delivery system used of serum albumin for neutron capture therapy (Chem. Res. Lab., Tokyo Tech) ○KIKUCHI, Shunsuke; KANO, Daisuke; SATOH, Shinichi; NAKAMURA, Hiroyuki

1J4-56 Development of a novel system for selective sterilization of *Pseudomonas aeruginosa* utilizing its heme acquisition protein HasA (Grad. Sch. Sci., Nagoya Univ.) ○IWAI, Yusuke; SHOJI, Osami; SHIRATAKI, Chikako; TERADA, Mitsuyoshi; SUGIMOTO, Hiroshi; SHIRO, Yoshitsugu; OGAWA, Kazuya; OZAKI, Shin-ichi; WATANABE, Yoshihito

1J4-57 Creation of fibernets immobilizing enzymes and application to glucose detection (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○SHIBATA, Masahide; ICHIKI, Kentaro; KOEDA, Shuhei; MIZUNO, Toshihisa; IWANAGA,

Norihiko; SHIMADA, Makoto; OBATA, Akiko; KASUGA, Toshihiro

Friday, March 27, AM

protein

Chair: YAMAMOTO, Yasuhiko (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2J4-01, 2J4-02, 2J4-03, 2J4-05)

2J4-01 Photochemical reaction dynamics of blue light sensor protein BlrP1 (Grad. Sch. Sci., Kyoto Univ.) ○SHIBATA, Kousei; NAKASONE, Yusuke; TERAZIMA, Masahide

2J4-02 Functionalization of cell-puncturing protein needle for photo-induced CO releasing (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○SHO, Takeya; FUJITA, Kenta; OZEKI, Shuichi; ABE, Satoshi; UENO, Takafumi

2J4-03[#] GTP-Responsive Tubulin Vesicle with a Photoreactive Molecular Glue for DDS Carrier (Grad. Sch. Eng., The Univ. of Tokyo) ○UCHIDA, Noriyuki; OKURO, Kou; TOMISHIGE, Michio; AIDA, Takuzo

2J4-05* Diffusion change reveals the photoreaction dynamics of the Cyanobacterial Phytochrome (Cph1) (Grad. Sch. Sci., Kyoto Univ.) ○TAKEDA, Kimitoshi; TERAZIMA, Masahide

Chair: SAWADA, Toshiaki (10 : 10~11 : 20)

* 10:00-10:10: interval for laptop PC connection.(2J4-08, 2J4-09, 2J4-10, 2J4-11, 2J4-12, 2J4-13)

2J4-08 Characterization of heme electronic ground state of deoxyhemoglobin (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○MORITAKA, Yuki; XU, Liyang; NISHIMURA, Ryu; SHIBATA, Tomokazu; SUZUKI, Akihiro; NEYA, Saburo; YAMAMOTO, Yasuhiko

2J4-09 Unidirectional electron transfer in outer membrane multi-heme cytochrome MtrF (Fac. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○YAMASHITA, Yuki; SAITO, Keisuke; ISHIKITA, Hiroshi

2J4-10 Monitoring directional electron transfer in cytochrome *c*₃ using viologen immobilized probe (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○MAEDA, Hitoshi; SHIBUYA, Naoya; KOBAYASHI, Eisuke; ASAKURA, Noriyuki

2J4-11 Photoinduced Electron Transfer in Supramolecular Cytochrome *b*₅₆₂ Co-assembly Containing Iron and Zinc Porphyrins (Grad. Sch. Eng., Osaka Univ.) ○KAJIHARA, Ryota; OOHORA, Koji; HAYASHI, Takashi

2J4-12 Photoinduced hydrogen evolution using porphyrin-viologen-hydrogenase triad immobilized ITO electrode (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○KOIDE, Shota; TSUCHIYA, Masataka; NISHIZAWA, Shaw; ASAKURA, Noriyuki

2J4-13* Control of the catalytic cycle of [NiFe] hydrogenase by the redox state of the Fe-S cluster (Grad. Sch. Mat. Sci., NAIST; Grad. Sch. Life Sci., Univ. of Hyogo; CREST, JST) ○TAI, Hulin; NISHIKAWA, Koji; INOUE, Seiya; HIGUCHI, Yoshiaki; HIROTA, Shun

Chair: KONDO, Masaharu (11 : 30~12 : 20)

* 11:20-11:30: interval for laptop PC connection.(2J4-16, 2J4-17, 2J4-18, 2J4-19)

2J4-16[#] *Desulfovibrio ferrophilus* strain IS5 Extracts Electrons from Solid Compounds by Outer Membrane c-type Cytochromes (Grad. Sch. Eng., The Univ. of Tokyo) ○DENG, Xiao; OKAMOTO, Akihiro; HASHIMOTO, Kazuhito

2J4-17 Anaerobic ammonium oxidation by *Shewanella oneidensis* MR-1 (Fac. Eng., The Univ. of Tokyo) ○SAITO, Junki; OKAMOTO, Akihiro; HASHIMOTO, Kazuhito

2J4-18[#] Dark carbon fixation pathway in biocathode of *Shewanella oneidensis* MR-1 (RCAST, The Univ. of Tokyo) ○LA CAVA, Eugenio; OKAMOTO, Akihiro; HASHIMOTO, Kazuhito

2J4-19[#] Design and Properties of Domain-swapped Dimeric Myoglobin (Grad. Sch. Mat. Sci., NAIST) ○NAGAO, Satoshi; LIN, Ying-wu; ISHIKAWA, Haruto; YAMADA, Takuya; ZHANG, Mohan; SHOMURA, Yasuhito; MIZUTANI, Yasuhisa; HIGUCHI, Yoshiaki; HIROTA, Shun

Friday, March 27, PM

Chair: FUJII, Ikuo (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(2J4-35)

2J4-35 CSJ Award for Creative Works Construction of functional peptides based on de novo design approaches (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○MIHARA, Hisakazu

Chair: TSUTSUMI, Hiroshi (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2J4-42, 2J4-43, 2J4-44, 2J4-45, 2J4-46, 2J4-47)

2J4-42 Screening and Characterization of Peptides that Bind to Stereoregular Poly(*N*-isopropylacrylamide) by Phage Display Method (Grad. Sch. Sci., Eng., Tokyo Tech) ○SUZUKI, Seigo; SAWADA, Toshiaki; ISHIZONE, Takashi; SERIZAWA, Takeshi

2J4-43 Controlled Release Property of Poly(propylene oxide)-binding Peptides Loaded in Hydrogels (Grad. Sch. Sci., Eng., Tokyo Tech) ○FUKUTA, Hiroki; SAWADA, Toshiaki; SERIZAWA, Takeshi

2J4-44 Identification of Peptides that Bind to Neodymium Ions and Their

Utilization as an Adsorbent (Grad. Sch. Sci., Eng., Tokyo Tech; DENSO)
 ○ASADA, Masaya; SAWADA, Toshiaki; KANJANA, Khunathai;
 FUKUDA, Hiroaki; SERIZAWA, Takeshi

- 2J4-45** Design and synthesis of peptide templates for gold nanocrystal synthesis. (Fac. Sci. Tech., Ryukoku Univ.) ○WADA, Tsubasa; IMAI, Takahito; TOMIZAKI, Kin-ya
- 2J4-46** Synthesis of gold nanoparticles with tandem dimer peptides (Fac. Sci. Tech., Ryukoku Univ.) ○YAMADA, Naoki; IMAI, Takahito; TOMIZAKI, Kin-ya
- 2J4-47** Site-Specific mineralization of two different inorganic compounds on DNAs using designed peptides (Konan Univ. FIRST; Ryukoku Univ. Department of Materials Chemistry) ○OZAKI, Makoto; ENDOU, Natsumi; NISHIYAMA, Hiroto; YAMADA, Aoi; TSURUOKA, Takaaki; TOMIZAKI, Kin-ya; USUI, Kenji

Chair: TOMIZAKI, Kin-ya (17 : 00~17 : 50)

* 16:50-17:00: interval for laptop PC connection.(2J4-49, 2J4-51, 2J4-52, 2J4-53)

- 2J4-49*** Construction of self-assembling peptide materials with a urea bond and their application to cell culture. (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○TSUTSUMI, Hiroshi; TANAKA, Kunifumi; MIHARA, Hisakazu
- 2J4-51** Self-assembly properties and structural analysis of elastin-derived peptides, (FPGVG)_n dimers (Fac. Arts and Sci., Kyushu Univ.) ○SUYAMA, Keitaro; TANIGUCHI, Suguru; TATSUBO, Daiki; MAEDA, Iori; NOSE, Takeru
- 2J4-52** Analysis of the self-assembling properties of tryptophan-containing elastin-like repetitive peptides (Fac. Sci., Kyushu Univ.; Fac. Arts and Sci., Kyushu Univ.) ○TATSUBO, Daiki; SUYAMA, Keitaro; TANIGUCHI, Taku; MAEDA, Iori; NOSE, Takeru
- 2J4-53** A synthetic strategy of side chain cross-linked helical peptides by native chemical ligation (Fac. Eng., Kyushu Sangyo Univ.) ○FUJIMOTO, Kazuhisa; OYOSHI, Takanori; NOGAMI, Kagayaki; INOUE, Masahiko

Chair: ASAKURA, Noriyuki (18 : 00~18 : 30)

* 17:50-18:00: interval for laptop PC connection.(2J4-55, 2J4-56, 2J4-57)

- 2J4-55** Ultrafast Energy Transfer in Photosynthetic Antenna Complex (LH2) Conjugated with Artificial Chromophores (Grad Sch. Eng., Nagoya Inst. of Tech.) ○MIZUTANI, Naoto; NOJI, Tomoyasu; KONDO, Masaharu; YONEDA, Yusuke; KATAYAMA, Teturo; NAGASAWA, Yutaka; MIYASAKA, Hiroshi; ITO, Shigeru; NANGO, Mamoru; DEWA, Takehisa
- 2J4-56** Evaluation of the efficiencies of energy transfer and charge separation by light harvesting antenna-reaction center in reconstituted lipid bilayers. (Fac. Eng. Nagoya Inst. of Tech.) ○MATSUO, Mikano; NOJI, Tomoyasu; MIZUTANI, Naoto; ITO, Shigeru; NANGO, Mamoru; DEWA, Takehisa
- 2J4-57** Immobilization of photosynthetic light-harvesting complex (LHCII) into nanoporous glass plate and its photocatalytic activity (Grad Sch. Eng., Nagoya Inst. of Tech.) ○TADA, Mikihiko; NOJI, Tomoyasu; KONDO, Masaharu; JIN, Tetsuro; NANGO, Mamoru; DEWA, Takehisa

Saturday, March 28, AM

Protein

Chair: KAMACHI, Toshiaki (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3J4-01, 3J4-02, 3J4-03, 3J4-04, 3J4-06)

- 3J4-01** Refolding of fungi-derived FAD glucose dehydrogenase recombinantly prepared in *Escherichia coli* (Fac. Eng., Tokyo Univ. of Agri. and Technol.) MAEDA, Chihiro; ○OKURITA, Madoka; TSURUTA, Hayato; MORI, Kazushige; KOJIMA, Katsuhiko; SODE, Koji
- 3J4-02** Identification of the catalytic p*K*_a value of flavin in isopentenyl diphosphate isomerase 2 (Fac. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○TAKAOKA, Tomohiro; SAITO, Keisuke; ISHIKITA, Hiroshi
- 3J4-03** Reconstitution of active enzyme using interaction-dependent peptide ligation and protein splicing (Gunma Univ. ASRLD Unit) ○TAKAHASHI, Tsuyoshi
- 3J4-04*** Conformation Analysis of Membrane-Bound Proteins by Vacuum-Ultraviolet Circular-Dichroism and Linear-Dichroism Spectroscopy (HisOR, Hiroshima Univ.) ○MATSUO, Koichi; NAMATAME, Hirofumi; TANIGUCHI, Masaki; GEKKO, Kunihiko
- 3J4-06** Crystal Structure of Active Site Mutants of Fungal Tyrosinase (Sch. Eng., Osaka Univ.) ○UMAKOSHI, Kyouhei; FUJIEDA, Nobutaka; ITOH, Shinobu

Protein

Chair: HIROTA, Shun (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3J4-08, 3J4-09, 3J4-10, 3J4-11, 3J4-12, 3J4-13)

- 3J4-08** Distribution behavior of cytochrome *c* modified with triethylene glycol in ionic liquids/buffer biphasic system (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○IKEDA, Kazuma; FUJITA, Kyoko; NAKAMURA, Nobuhumi; OHNO, Hiroyuki
- 3J4-09** Expression and characterization of a nickel-induced group III alcohol dehydrogenase from hyperthermophilic archaea (Grad. Sch. Fac. Eng., Tokyo

Univ. of Agri. and Technol.) ○SUGIMOTO, Chikanobu; TAKEDA, Kouta; YOHTA, Masafumi; NAKAMURA, Nobuhumi; OHNO, Hiroyuki

- 3J4-10** Direct electron transfer reaction of a PQQ domain of quinoxinoprotein pyranose dehydrogenase (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KUSUOKA, Ryo; TAKEDA, Kouta; YOSHIDA, Makoto; IGARASHI, Kiyohiko; SAMEJIMA, Masahiro; NAKAMURA, Nobuhumi; OHNO, Hiroyuki
- 3J4-11** Mutational analyses of the electron transfer subunit of FAD dependent glucose dehydrogenase complex (Fac. Eng., Tokyo Univ. of Agri. and Technol.) TSUKADA-YAMASHITA, Yuki; ○SUZUKI, Nanohta; SHIOTA, Masaki; KOJIMA, Katsuhiko; TSUGAWA, Wakako; FERRI, Stefano; SODE, Koji
- 3J4-12** Functional analysis of cysteine cluster of catalytic subunit of FAD dependent glucose dehydrogenase complex (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SHIOTA, Masaki; KOJIMA, Katsuhiko; TSUGAWA, Wakako; YAMAZAKI, Tomohiko; FERRI, Stefano; SODE, Koji
- 3J4-13** Construction of chimeric enzymes between glucose oxidase and FAD dependent glucose dehydrogenase (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SORADA, Asuka; MAEDA, Chihiro; KOJIMA, Katsuhiko; MORI, Kazushige; STEFANO, Ferri; TSUGAWA, Wakako; SODE, Koji

Protein

Chair: SODE, Koji (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3J4-15, 3J4-16, 3J4-18, 3J4-19, 3J4-20)

- 3J4-15** Novel mechanism of phosphate recognition of MAPK signaling regulatory factor PPM1A phosphatase (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.; Fac. Sci., Kyushu Univ.; Fac. Sci., Niigata Univ.) ○SHIRAHATA, Yukiko; KIYOTA, Yuhei; MATSUYAMA, Yutaka; NIAHIMURA, Yuichi; CHUMAN, Yoshiro; KAMADA, Rui; SHIMOHIGASHI, Yasuyuki; SAKAGUCHI, Kazuyasu
- 3J4-16**** Evaluation of pyrene excimer fluorescence property and pyrene-pyrene stacking mode on the surface of Adenylate kinase. (Grad. Sch. Mat. Sci., NAIST) ○FUJII, Akira; MATSUO, Takashi; CHUNG, Wen-sheng; HIROTA, Shun
- 3J4-18** Elucidation of molecular mechanism responsible for functional regulation of myoglobin possessing H64Q amino acid replacement (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○KANAI, Yuki; NISHIMURA, Ryu; XU, Liyang; SHIBATA, Tomokazu; MATSUO, Takashi; HIROTA, Shun; SUZUKI, Akihiro; NEYA, Saburo; YAMAMOTO, Yasuhiko
- 3J4-19** Single-molecular activity of enzyme and hyaluronan polymer on lipid bilayers Visualized by High-Speed Atomic Force Microscopy (Sch. Biosci. Biotech., Tokyo Tech) ○TOMATSU, Jin; TANAKA, Rina; HARUHARA, Yumiko; MORI, Toshiaki
- 3J4-20** Molecular Mapping of Globo glycolipid by AFM dynamics measurement with Verotoxin-modified Probe (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○HARUHARA, Yumiko; KOIZUMI, Shohei; MORI, Toshiaki

Saturday, March 28, PM

Protein

Chair: MIHARA, Hisakazu (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3J4-28, 3J4-30, 3J4-32, 3J4-33)

- 3J4-28*** Development of enzymatic reactions for efficient conjugation of a DNA aptamer and an enzyme. (Fac. Eng., Kyushu Univ.) ○TAKAHARA, Mari; HAYASHI, Kouosuke; GOTO, Masahiro; KAMIYA, Noriho
- 3J4-30*** X-ray crystal structure guided-analysis of a possible function of HmdII, an [Fe]-hydrogenase homolog (Max Planck Institute for Terrestrial Microbiology) ○FUJISHIRO, Takashi; ATAKA, Kenichi; ERMILER, Ulrich; SHIMA, Seigo
- 3J4-32** Development of detection method for histone modifying enzyme activity using fluorescent probe and DNA (Grad. Sch. Eng., Osaka Univ.; IReC, Osaka Univ.) ○MINOSHIMA, Masafumi; MATSUMOTO, Tetsuaki; KIKUCHI, Kazuya
- 3J4-33** Action mechanism of small organic molecule PAC-1 on mature and zymogen-like mutant of caspase-3 (Grad. Sch. Mat. Sci., NAIST) ○ISHIDA, Masaya; MATSUO, Takashi; HIROTA, Shun

Protein

Chair: MATSUO, Takashi (14 : 40~15 : 30)

* 14:30-14:40: interval for laptop PC connection.(3J4-35, 3J4-36, 3J4-38, 3J4-39)

- 3J4-35** Development of multi-functionalized hybrid enzyme (Fac. Pharm., Keio Univ.) ○HANAYA, Kengo; SHOJI, Mitsuru; SUGAI, Takeshi
- 3J4-36**** Oxidation reaction using light energy by the combination of chloroplast and oxidoreductases (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○ITO, Hidehiro; MATSUZAKI, Mai; MORI, Fumiya; MIYAJI, Akimitsu; TABATA, Kenji; OKURA, Ichiro; KAMACHI, Toshiaki
- 3J4-38** Single molecule binding and decomposing analysis of chitinase on chitin by using High Speed Atomic Force Microscopy (Grad. Sch. Biosci.

Biotech., Tokyo Tech) ○KATO, Saki; MASUI, Asuka; NAKAGAWA, Yuko; MORI, Toshiaki

3J4-39 Reaction observation of Chondroitin polymerase by Atomic Force Microscopy (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○OKANOYA, Yuta; SUGIURA, Nobuo; KIMATA, Koji; MORI, Toshiaki

Protein

Chair: WAKU, Tomonori (15 : 40~16 : 30)

* 15:30-15:40: interval for laptop PC connection.(3J4-41, 3J4-42, 3J4-43, 3J4-45)

3J4-41 The study of cytochrome *c* oxidase at initial stages during oxygen reduction reaction (Grad. Sch. Life Sci., Univ. of Hyogo) ○NISHIGUCHI, Tatsuhito; LI, Chen; SHINZAWA-ITHO, Kyoko; YOSHIKAWA, Shinya; NAKASHIMA, Satoru; OGURA, Takashi

3J4-42[#] Construction of Hydrogen Peroxide Dependent Cytochrome P450s by one-point mutation (Grad. Sch. Sci., Nagoya Univ.) ○KANO, Yukiko; SHOJI, Osami; WATANABE, Yoshihito

3J4-43^{*} Reaction mechanism of threonine synthase - the former part of the catalysis (Osaka Med. Coll. Department of Chemistry) ○HAYASHI, Hideyuki; MURAKAWA, Takeshi; SHOJI, Mitsuo

3J4-45 Structural impacts upon the insertion of amyloid core sequences into a β -sheet model protein (Grad. Sch. Sci., Eng., Yamagata Univ.) ○HORI, Yuki; MAKABE, Koki

Chair: MORI, Toshiaki (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(3J4-47, 3J4-48, 3J4-49, 3J4-50, 3J4-51, 3J4-52)

3J4-47 Chemical synthesis of C-terminal activated form of ubiquitin for the ubiquitination of proteins (Grad. Sch. Sci., Osaka Univ.) ○ARAKI, Hiroyuki; IZUMI, Masayuki; TOMINAGA, Mamiko; OKAMOTO, Ryo; KAJIHARA, Yasuhiro

3J4-48 Morphological change of peptide nano-assemblies based on helix-sheet transition (KIT) ○WAKU, Tomonori; HIRATA, Naoyuki; KUNUGI, Shigeru; TANAKA, Naoki

3J4-49 Design of a brain-permeable peptide nanofiber with chaperone-like activity for the treatment of Alzheimer's diseases (KIT) ○KOBAYASHI, Yukako; UEMURA, Takuya; WAKU, Tomonori; OKUDA, Michiaki; SUGIMOTO, Hachiro; TANAKA, Naoki

3J4-50 Construction of Functionalized Self-Assembling Peptide Materials as Cell Culture Scaffolds (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○KAWAMURA, Megumi; FUKUNAGA, Kazuto; TSUTSUMI, Hiroshi; MIHARA, Hisakazu

3J4-51 Cell penetration activities of amphipathic α -helix peptides with cell selectivity (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○TAO, Xinran; TSUTSUMI, Hiroshi; MIHARA, Hisakazu

3J4-52 Construction of a mannose-conjugated β -loop peptide library through the phage display method and screening of peptide ligands binding to concanavalin A (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○HIROHARA, Youhei; ARAI, Kanako; TSUTSUMI, Hiroshi; MIHARA, Hisakazu

Sunday, March 29, AM

Protein

Chair: SAKAI, Hiromi (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4J4-01, 4J4-03, 4J4-05, 4J4-06)

4J4-01^{*} Accumulation of Organometallic Complexes in Protein Crystals for a CO-releasing Extracellular Scaffold of Living Cells (Grad. Sch. Eng., Kyoto Univ.; iCeMS, Kyoto Univ.; Grad. Sch. Biosci. Biotech., Tokyo Tech) ○TABE, Hiroyasu; SHIMOI, Takuya; FUJITA, Kenta; ABE, Satoshi; MORI, Hajime; KITAGAWA, Susumu; UENO, Takafumi

4J4-03[#] Construction of Small Alkane Hydroxylase by CytochromeP450BM3-Deoxy Molecule System (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.; RIKEN SPring-8 Center, Harima Institute) ○CONG, Zhiqi; SHOJI, Osami; KASAI, Chie; SUGIMOTO, Hiroshi; SHIRO, Yoshitsugu; WATANABE, Yoshihito

4J4-05 Photoinduced CO-release from protein crystal materials for controlling cell functions (Grad. Sch. Biosci. Biotech., Tokyo Tech; iCeMS, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○SHIMOI, Takuya; TABE, Hiroyasu; FUJITA, Kenta; ABE, Satoshi; MORI, Hajime; KITAGAWA, Susumu; UENO, Takafumi

4J4-06 Coordination arrangement of organometallic complexes by designing interior surface of apo-Ferritin (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○NAKANE, Taiki; ABE, Satoshi; FUKUMORI, Kazuki; MAITY, Basudev; UENO, Takafumi

Protein

Chair: WATANABE, Yoshihito (10 : 10~11 : 00)

* 10:00-10:10: interval for laptop PC connection.(4J4-08, 4J4-10, 4J4-12)

4J4-08^{*} Design of DNP-NMR molecular probe for analysis of disease-related enzymes (Grad. Sch. Eng., The Univ. of Tokyo; Grad. Sch. Eng., Kyushu

Univ.; CREST, JST) ○HATA, Ryunosuke; NONAKA, Hiroshi; SANDO, Shinsuke

4J4-10[#] Crystal structure and function of a domain-swapped cytochrome *cb*₅₆₂ dimer (Nara Institute of Science and Technology Graduate School of Materials Science) ○MIYAMOTO, Takaaki; KURIBAYASHI, Mai; NAGAO, Satoshi; SHOMURA, Yasuhiro; HIGUCHI, Yoshiki; HIROTA, Shun

4J4-12[#] Construction of high-order domain-swapped oligomers of *Hydrogenobacter thermophilus* cytochrome *c*₅₅₂ by hinge loop mutation (Nara Institute of Science and Technology Graduate School of Materials Science) ○REN, Chunguang; YAMANAKA, Masaru; NAGAO, Satoshi; HIROTA, Shun

Protein

Chair: TAKAHASHI, Satoshi (11 : 10~11 : 50)

* 11:00-11:10: interval for laptop PC connection.(4J4-14, 4J4-16, 4J4-17)

4J4-14^{*} Accumulation of Functional Molecules by Designing Protein Crystals (Grad. Sch. Biosci. Biotech., Tokyo Tech; iCeMS, Kyoto Univ.; KIT) ○ABE, Satoshi; TABE, Hiroyasu; AKAI, Masaki; MORI, Hajime; KITAGAWA, Susumu; UENO, Takafumi

4J4-16 Evaluation of membrane protein with PEG modified PG-surfactant (Grad Sch. Eng., Nagoya Inst. of Tech.) ○KOEDA, Shuhei; SUZUKI, Tomoyuki; NOJI, Tomoyasu; KAWAKAMI, Keisuke; ITOH, Shigeru; DEWA, Takehisa; KAMIYA, Nobuo; MIZUNO, Toshihisa

4J4-17 Enzymatic assembly of functional molecules on a self-assembled scaffold (Grad. Sch. Eng., Kyushu Univ.) ○SUEHIRO, Ayumi; WAKABAYASHI, Rie; GOTO, Masahiro; KAMIYA, Norihiro

Protein

Chair: MIZUNO, Toshihisa (12 : 00~12 : 40)

* 11:50-12:00: interval for laptop PC connection.(4J4-19, 4J4-20, 4J4-21, 4J4-22)

4J4-19 Oxidative folding of alpha-lactalbumin by using a water-soluble selenoxide reagent with high disulfide formation ability. (Sch. Sci., Tokai Univ.) ○SHINOZAKI, Reina; IWAOKA, Michio

4J4-20 Crystallization of the membrane protein from bicelle formulations in complex with iodine-containing compounds (Grad. Sch. Sci., Osaka Univ.) ○SAIKI, Haruka; HANASHIMA, Shinya; MURAYA, Michio; MATSUMORI, Nobuaki; MIZOHATA, Eiichi; INOUE, Tsuyoshi; KAWATAKE, Satoshi; KAKINOCHI, Keisuke; SUGIYAMA, Shigeru

4J4-21 Observation of the Search Dynamics of p53 Mutants for the Target DNA Sequence by Single-molecule Fluorescence Microscopy (IMRAM, Tohoku Univ.; Grad. Sch. Sci., Tohoku Univ.) ○ITOH, Yuji; MURATA, Agato; SAKAMOTO, Seiji; NANATANI, Kei; TAKAHASHI, Satoshi; KAMAGATA, Kiyoko

4J4-22 Single-molecule measurement for sliding dynamics of tumor suppressor p53 on DNA (IMRAM, Tohoku Univ.) ○MURATA, Agato; ITOH, Yuji; IGARASHI, Chihiro; KASHIMA, Risa; TOKINO, Takashi; TAKAHASHI, Satoshi; KAMAGATA, Kiyoko

Room J5 Bldg.5(School of Pharmacy)

Biofunctional Chemistry ; Biotechnology

Thursday, March 26, AM

Cell

Chair: OZAWA, Takeaki (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1J5-01, 1J5-02, 1J5-03, 1J5-04, 1J5-06)

1J5-01 Development of vectors for homologous recombination in marine cyanobacterium *Synechococcus* sp. (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○NAGATA, Madoka; BADARY, Amr; ABE, Koichi; KOJIMA, Katsuhiro; FERRI, Stefano; SODE, Koji

1J5-02 The impact of the culture condition on the cyanobacterial green-light gene regulation system (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○FUSE, Saori; ABE, Koichi; ELLINGER, James; KOJIMA, Katsuhiro; FERRI, Stefano; SODE, Koji

1J5-03 Overexpression of the pilus-forming gene of *Synechocystis* sp. PCC 6803 (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○ITO, Akiko; NAKAMURA, Mayumi; ABE, Koichi; KOJIMA, Katsuhiro; FERRI, Stefano; SODE, Koji

1J5-04^{*} A metabolic change of *E. coli* stimulated by extracellular electron transfer via a biocompatible polymer (Grad. Sch. Eng., The Univ. of Tokyo) ○ISHIKAWA, Masahito; KATO, Souchiro; HASHIMOTO, Kazuhito; NAKANISHI, Shuji

1J5-06 Reduction of intracellular photooxidation damage using reduced glutathione (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○KOBAYASHI,

Yukito; ITO, Hidehiro; MATSUMURA, Yuriko; KOHNO, Masahiro; KAMACHI, Toshiaki

Cell

Chair: KAMACHI, Toshiaki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1J5-08, 1J5-09, 1J5-10, 1J5-11, 1J5-12)
- 1J5-08** Characterization of a green-light inducible riboregulator system in *Synechocystis* sp. PCC6803 (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ABE, Koichi; OSHONO, Chika; SAKAMOTO, Ippei; KAWAI, Sumiya; SAKAI, Yuta; SODE, Koji; IKEBUKURO, Kazunori
- 1J5-09** Development of a green light inducible riboregulator system in *Escherichia coli* (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OSAKAMOTO, Ippei; ABE, Koichi; KAWAI, Sumiya; SAKAI, Yuta; SODE, Koji; IKEBUKURO, Kazunori
- 1J5-10[#]** A model for molecular mechanisms of circadian clock synchronization by UV light irradiation revealed from luciferase probes. (Grad. Sch. Sci., The Univ. of Tokyo) OKAWAMURA, Genki; HATTORI, Mitsuru; TAMARU, Teruya; OZAWA, Takeaki
- 1J5-11** Comparative subcellular localization analysis of magnetosome proteins in magnetotactic bacteria (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OKIKUCHI, Daiki; TANAKA, Masayoshi; ARAKAKI, Atsushi; MATSUNAGA, Tadashi
- 1J5-12*** Morphological control of magnetites by regulating expression of crystal growth regulator protein Mms7 (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OYAMAGISHI, Ayana; MATSUNAGA, Tadashi; ARAKAKI, Atsushi

Cell

Chair: TAKAGI, Masahiro (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1J5-15, 1J5-17, 1J5-19, 1J5-20)
- 1J5-15*** Electrical retrieval for yeast *S. cerevisiae* using an ITO patterning electrode at a single cell level. (JAMSTEC Marine Biodiversity Research) OKOYAMA, Sumihiro; TSUBOUCHI, Taishi; NOGI, Yuichi; USUI, Keiko; UEMATSU, Katsuyuki; TAME, Akihiro; ITO, Takahiro; KOBAYASHI, Kenji; OHTA, Yukari; KATO, Chiaki; NAGAHAMA, Takahiko; KONISHI, Masa-aki; TOYOFUKU, Takashi; MIWA, Tetsuya; ABE, Fumiyoshi; NAGANO, Yuriko; HATADA, Yuji; MARUYAMA, Tadashi
- 1J5-17*** The engineering of the green-light regulated gene expression system and its application for the light inducible auto-cell-lysis of *Escherichia coli* (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ONAKAJIMA, Mitsuharu; ABE, Koichi; KOJIMA, Katsuhiro; FERRI, Stefano; SODE, Koji
- 1J5-19** Single Cell RNA Extraction by Bioinspired Silicification (Grad. Sch. Eng. Sci., Osaka Univ.; Grad. Sch. Eng., Nagoya Univ.; FIRST RCIN, Nagoya Univ.; Grad. Fac. Eng., Hokkaido Univ.) OKAMOTO, Yukihiko; OKAWA, Tomoki; ONOSHIMA, Disuke; YUKAWA, Hiroshi; TOKESHI, Manabu; BABA, Yoshinobu
- 1J5-20** Delivery of Cre proteins into nucleus with use of nanoneedle array (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) O MATSUMOTO, Daisuke; SAITO, Megumi; KATO, Yoshio; KAWAMURA, Ryuzo; KOBAYASHI, Takeru; IWATA, Futoshi; NAKAMURA, Chikashi

Thursday, March 26, PM

Cell

Chair: MORI, Hideki (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1J5-28, 1J5-29, 1J5-30, 1J5-31, 1J5-33)
- 1J5-28** Expression analysis of Cx26 and Cx30.3 proteins during differentiation from ES cells (Fac. Eng., Tokyo Univ. of Agri. and Technol.) OHIRATOKO, Shoya; OCHIAI, Eri; MATSUOKA, Hideaki; SAITO, Mikako
- 1J5-29** Analysis of connexin 43 localization in living cells using tetracysteine tag. (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OIMAI, Keiichi; OCHIAI, Eri; MATSUOKA, Hideaki; SAITO, Mikako
- 1J5-30** Menthol as a coolant influence on membrane fluidity and signal transduction in T-cell. (Sch. Mat. Sci., JAIST) OYABUUCHI, Satomi; ENDO, Satoshi; BAEK, Keangok; HOSHINO, Kunihide; TSUJINO, Yoshio; SHIMOKAWA, Naofumi; TAKAGI, Masahiro
- 1J5-31*** In vitro fabrication of tumor invasion, intravasation and metastasis models using cell-coating technology and their application for drug effect tests (Grad. Sch. Eng., Osaka Univ.) O MATSUSAKI, Michiya; NISHIGUCHI, Akihiro; AKASHI, Mitsuru
- 1J5-33** Preparation of High-Dispersion Cell Solution via Ion-Crosslinking between Double Helix Polymer Chains and Their Application for Inkjet Cell Printing. (Sch. Eng., Osaka Univ.) OYAMADA, Soudai; NISHIGUCHI, Akihiro; MATSUSAKI, Michiya; AKASHI, Mitsuru

Cell

Chair: HARA, Masayuki (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1J5-35, 1J5-36, 1J5-37, 1J5-38, 1J5-39, 1J5-40)
- 1J5-35** Analysis of insulin sensitivity of spermine-induced multilayer myotube sheet. (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ONAKAGAWA, Shota; OCHIAI, Eri; MATSUOKA, Hideaki; SAITO, Mikako
- 1J5-36** Control of cell morphology and differentiation on a highly aligned fullerene nanowhisker cell scaffold. (MANA, NIMS) OMINAMI, Kosuke; KASUYA, Yuki; YAMAZAKI, Tomohiko; JI, Qingmin; NAKANISHI, Waka; SAKAI, Hideki; ARIGA, Katsuhiko
- 1J5-37** Mechanical isolation of undifferentiated iPS cell with binding force of antibody to vimentin (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OSHIMIZU, Keita; KAWAMURA, Ryuzo; IJIMA, Masumi; KURODA, Shun'ichi; NAKAMURA, Chikashi
- 1J5-38** Synthesis of novel biodegradable polymers with ion-crosslinking property and their application for biocompatible hydrogels with high elongation (Grad. Sch. Eng., Osaka Univ.) ONOGUCHI, Moe; NISHIGUCHI, Akihiro; MATSUSAKI, Michiya; AKASHI, Mitsuru
- 1J5-39** Internalization of perylenebisimide nanoparticles into HeLa cell (Grad. Sch. Sci., Eng., Ehime Univ.) OKAMASOKU, Shogo; KAMASOKU, Shogo; SAWASAKI, Tatsuya; TAKAHASHI, Hiroataka; UEMATSU, Atsushi
- 1J5-40** Analysis of the role of hypoxia in 5-aminolevulinic acid(ALA)-based tumor therapy and diagnosis (Grad. Sch. Biosci. Biotech., Tokyo Tech) OOTSUKA, Shimpei; MATSUMOTO, Kentaro; TANAKA, Toru; OKURA, Ichiro; OGURA, Shun-ichiro

Cell

Chair: NAKAMURA, Chikashi (15 : 50~16 : 30)

- * 15:40-15:50: interval for laptop PC connection.(1J5-42, 1J5-43, 1J5-45)
- 1J5-42** The mechanism of porphyrin metabolism in cancer spheroid after administration of 5-aminolevulinic acid (Grad. Sch. Biosci. Biotech., Tokyo Tech) ONAKAYAMA, Taku; MATSUMOTO, Kentaro; TANAKA, Tohru; OKURA, Ichiro; OGURA, Shun-ichiro
- 1J5-43*** Porous keratin hydrogel scaffold for tissue engineering (Grad. Sch. Sci., Osaka Pref. Univ.) OZAKI, Yuki; TAKAGI, Yusuke; MORI, Hideki; OHARA, Masayuki
- 1J5-45** Development of textile materials for culture of neural stem/progenitor cells (Grad. Sch. Sci., Osaka Pref. Univ.) OMORI, Hideki; NAKA, Ryosuke; HARA, Masayuki

Friday, March 27, AM

Nucleic Acid

Chair: KAMIYA, Yukiko (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2J5-01, 2J5-02, 2J5-03, 2J5-04, 2J5-05, 2J5-06)
- 2J5-01** Analysis of metagenomic library from bacteria in marine sponge *Halichondria okadai*. (Fac. Sci., Kanagawa Univ.) O ABE, Takahiro; MIYAMOTO, Kenji; SAKAKIBARA, Yasubumi; NAITHO, Takayuki; UEMURA, Daisuke
- 2J5-02** Selection of VEGF-binding DNA aptamers with base modifications using a CE-SELEX method (Grad. Sch. Sci. Tech., Gunma Univ.) OHONDA, Naoto; KASAHARA, Yuuya; HAGIWARA, Kenta; KUWAHARA, Masayasu
- 2J5-03** Effect of oligonucleotide chain length on separation of target/nucleic acid aptamer complexes by a capillary zone electrophoresis (Grad. Sch. Sci. Tech., Gunma Univ.) OHAGIWARA, Kenta; HONDA, Naoto; KASAHARA, Yuuya; KUWAHARA, Masayasu
- 2J5-04** Screening of anti-idiotypic aptamers against anti-VEGF antibody *bevacizumab* (Avastin) (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ABE, Koichi; OSAITO, Taro; YAMAMOTO, Yukimi; SAVORY, Nasa; TODOROKI, Kenichiro; IKEBUKURO, Kazunori
- 2J5-05** The binding between thrombin and thrombin-binding aptamer in hydrated ionic liquid. (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OHONDA, Takuya; SAVORY, Nasa; ABE, Koichi; FUJITA, Kyoko; OHNO, Hiroyuki; IKEBUKURO, Kazunori
- 2J5-06** Exploration of RNA aptamers that bind to RND(the restrained naphthridine dimer) by SPR-based *in vitro* selection (Sch. Sci., Osaka Univ.) OMORI, Yuki; DI, Yue; SUGAI, Ayako; LI, Jinxing; OTABE, Takahiro; AIKAWA, Haruo; MURATA, Asako; NAKATANI, Kazuhiko

Chair: OKA, Natsuhisa (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2J5-08, 2J5-10, 2J5-12, 2J5-13)
- 2J5-08*** Fluorescent monitoring of siRNA by modification with dye pairs in cell (EcoTopia Sci. Inst., Nagoya Univ.) OKAMIYA, Yukiko; ITO, Anna; KASHIDA, Hiromu; ASANUMA, Hiroyuki
- 2J5-10*** Gene Silencing by siRNA Bearing Cationic Charge (Fac. Humanity-

Oriented Sci. Eng., Kinki Univ.) ○FUJII, Masayuki; TAKASHINA, Ayumi; NAEMURA, Madoka; KOTAKE, Yojiro; YAMAYOSHI, Asako; ARIYOSHI, Junpei; MURAKAMI, Akira

- 2J5-12** Control of receptor activity by synthetic molecules (1): Efforts toward efficient receptor activation by DNA aptamer (Grad. Sch. Eng., The Univ. of Tokyo) ○KANDA, Naoto; UEKI, Ryosuke; SANDO, Shinsuke
2J5-13 Control of receptor activity by synthetic molecules (2): Approaches for affinity improvement of DNA aptamer (Grad. Sch. Eng., The Univ. of Tokyo) ○UEKI, Ryosuke; UTSUMI, Ayaka; SANDO, Shinsuke

Chair: SANDO, Shinsuke (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2J5-15, 2J5-16, 2J5-17, 2J5-19)
2J5-15 Synthesis of siRNAs containing acetal-type nucleoside analogs at their 3'-overhang and their ability to suppress gene expression. (Gifu Univ. Faculty of Applied Biological Sciences) ○INADA, Natsumi; NAKAMOTO, Kosuke; YOKOGAWA, Takashi; UENO, Yoshihito
2J5-16 Labelling of target mRNAs by photo-reactive micro RNA probes (Gifu Univ. Course of Applied Life science; Gifu Univ. Graduate School of Drug Discovery and Medical Informan) ○NAKAMOTO, Kosuke; AKAO, Hiroyuki; UENO, Yoshihito
2J5-17* New strategy for suppression of gene expression using Intelligent RNA expressing device (iRed) (Inst. Health Bio., The Univ. of Tokushima) ○TARASHIMA, Noriko; KOJIMA, Takamitsu; KINJO, Nozomi; FURUKAWA, Kazuhiro; ANDO, Hidenori; ISHIDA, Tatsuhiro; MINAKAWA, Noriaki
2J5-19* Kinetics of the inhibitory effect of BzDANP on RNA processing by Dicer (ISIR, Osaka Univ.) ○OTABE, Takahiro; MURATA, Asako; NAKATANI, Kazuhiko

Friday, March 27, PM

Biocatalysis

Chair: KITAYAMA, Takashi (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(2J5-34, 2J5-35, 2J5-36, 2J5-37, 2J5-38, 2J5-39)
2J5-34 Catalase Mimics with Ternary Supramolecular Complex Comprising Mn-porphyrin/Cucurbit[10]Aromatic base (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) ○TANIGUCHI, Hideaki; KUBOTA, Riku; ASAYAMA, Shoichiro; KAWAKAMI, Hiroyoshi
2J5-35 Non-natural substrate oxidation catalyzed by CYP152 peroxxygenase with acetic acid (Grad. Sch. Sci., Nagoya Univ.) ○ONODA, Hiroki; SHOJI, Osami; CHIEN, Shih-cheng; SUGIMOTO, Hiroshi; SHIRO, Yoshitsugu; WATANABE, Yoshihito
2J5-36* Structural Analysis and Site Directed Mutagenesis of Acetophenone Reductase (APRD) from *Geotrichum candidum* NBRC 4597 (Grad. Sch. Biosci. Biotech., Tokyo Tech; IReC, Osaka Univ.; KEK) SUGIYAMA, Yosuke; ○KOESOEAMA, Afifa Ayu; HOSHINO, Tomoyasu; MATSUDA, Tomoko; SCHRITT, Dimitri; YAMASHITA, Kazuo; STANDLEY, Daron M; SENDA, Miki; SENDA, Toshiya
2J5-37 Altering the substrate specificity of Horse Liver Alcohol Dehydrogenase by the simple addition of organic solvents (Fac. Sci. Tech., Keio Univ.) ○KAWAKAMI, Norifumi; HARA, Yosuke; MIYAMOTO, Kenji
2J5-38 Study on an improvement of the rasemase activity derived from Arylmalonate decarboxylase (Fac. Sci. Tech., Keio Univ.) ○YOSHIKAWA, Hiroyuki; YOSHIDA, Shosuke; KAWAKAMI, Norifumi; MIYAMOTO, Kenji
2J5-39 Identification of phenylmalonate metabolic pathway in *Alcaligenes bronchisepticus* KU1201 (Grad. Sch. Sci. Tech., Keio Univ.) ○HEMMI, Risa; YOSHIDA, Shosuke; KAWAKAMI, Norifumi; MIYAMOTO, Kenji

Chair: MATSUMOTO, Kazutsugu (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(2J5-41, 2J5-43, 2J5-44, 2J5-45, 2J5-46)
2J5-41* Computational Mutation Study on the Role of Catalytic Residues in Coenzyme B12-Dependent Diol Dehydratase (IMCE, Kyushu Univ.; Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○DOITOMI, Kazuki; KAMACHI, Takashi; TORAYA, Tetsuo; YOSHIZAWA, Kazunari
2J5-43 Hydratase Reactivities of Two Different Enzymes Working in Bacteriochlorophyll Biosynthetic Pathways (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○TERAMURA, Misato; HARADA, Jiro; MIZOGUCHI, Tadashi; TSUKATANI, Yusuke; TAMIaki, Hitoshi
2J5-44 The elucidation of functionality of the not hot capsaicinoid (Fac. of Sci., Okayama Univ. of Sci.) ○KAWAMURA, Shogo; HUJITAKA, Yuya; NAKAYAMA, Noriyuki; SHIMODA, Kei; OZAKI, Shinichi; HAMADA, Hiroki
2J5-45 The hydroxylation and glycosylation in biotransformation of terpenoids using plant cultured cells (Fac. of Sci., Okayama Univ. of Sci.) ○AKASHI, Tatsuya; OZAKI, Shinichi; SHIMODA, Kei; HIRAOKA, Yoichi; HAMADA, Hiroki
2J5-46 Isolation and characterization of cellulolytic microorganisms in rhizosphere biofilm (Grad. Sch. Sci. Tech., Keio Univ.) ○KANO, Mitsuhiro; KAWAKAMI, Norifumi; YOSHIDA, Shosuke; MIYAMOTO, Kenji

Chair: HAMADA, Hiroki (16 : 50~17 : 30)

- * 16:40-16:50: interval for laptop PC connection.(2J5-48, 2J5-50, 2J5-51)
2J5-48* Virus capsule as RNA degradable nanoreactor using RNase H and antisense DNA co-encapsulation system (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) ○SUGIMURA, Naotoshi; NIJKURA, Kenichi; MITOMO, Hideyuki; SAWA, Hirofumi; IJIRO, Kuniharu
2J5-50 Development of thermally driven asymmetric decarboxylation catalyzed by the variant of a thermostable esterase (Fac. Sci. Tech., Keio Univ.) ○IGARASHI, Kosuke; YOSHIDA, Shosuke; KAWAKAMI, Norifumi; MIYAMOTO, Kenji
2J5-51 Construction of cassette mutagenesis library for esterase containing a GGGX-motif (Grad. Sch. Sci. Tech., Keio Univ.) ○MOMMA, Rena; KAWAKAMI, Norifumi; YOSHIDA, Shosuke; MIYAMOTO, Kenji

Chair: KAWAKAMI, Norifumi (17 : 40~18 : 40)

- * 17:30-17:40: interval for laptop PC connection.(2J5-53, 2J5-54, 2J5-55, 2J5-56, 2J5-57, 2J5-58)
2J5-53 Enzyme-mediated Hydrolysis of Aliphatic Dicarboxylic Acid Diesters (Sch. Sci. Eng., Meisei Univ.) ○IGAWA, Yuuta; ISE, Hironobu; MATSUMOTO, Kazutsugu
2J5-54 Lipase-catalyzed enantioselective mono-hydrolysis of σ -symmetric biphenyl diacetate derivatives through the recognition of the remote substituent of the reaction sites. (Sch. Pharm., TUPLS) ○OCHIAI, Mio; AKISAWA, Yuki; TAHARA, Yoshinao; YANAI, Hikaru; MATSUMOTO, Takashi
2J5-55 Stereoselectivity of 2-methylcycloalkanol by lipase-catalyzed transesterification (Grad. Sch. Agr. Sci., Kinki Univ.) ○YAMAMOTO, Chieko; HIRAIWA, Kazusa; FUZIWARA, Chikako; KAWAI, Akane; SAITOU, Ayumi; OHTA, Sayo; KITAYAMA, Takashi
2J5-56 Phosphonium alkyl PEG sulfate ionic liquids as activating agents for lipase-catalyzed transesterification (Grad. Sch. Eng., Tottori Univ.) ○MATSUBARA, Yui; NISHIHARA, Takashi; FUKAYA, Yukinobu; NOKAMI, Toshiki; ITOH TOSHIYUKI, Toshiyuki
2J5-57 Triazorium alkylPEG sulfate ionic liquids as activating agents for lipase-catalyzed transesterification (Fac. Eng., Tottori Univ.) ○NISHIHARA, Takashi; MATSUBARA, Yui; FUKAYA, Yukinobu; NOKAMI, Toshiki; ITOH, Toshiyuki
2J5-58* Enhance lipase-catalyzed transesterification using liquid carbon dioxide - a green and practical approach (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○HOANG, Nam Hai; MATSUDA, Tomoko

Saturday, March 28, AM

Lipid/Biomembrane

Chair: DEWA, Takehisa (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3J5-01, 3J5-02, 3J5-03, 3J5-05)
3J5-01 Fluidity change on bio-mimetic membrane induced by presence of local anesthetics. (Sch. Mat. Sci., JAIST) ○SUGAHARA, Ko; SHIMOKAWA, Naofumi; TAKAGI, Masahiro
3J5-02 Destruction liposomes by DMe- β -cyclodextrin (Grad. Sch. Mat. Sci., NAIST; Grad. Sch. Eng., Hiroshima Univ.) ○IWATA, Noboru; HINO, Shodai; KIKUCHI, Jun-ichi; HIRAO, Takehiro; HAINO, Takeharu; SUGIKAWA, Kouta; IKEDA, Atsushi
3J5-03* NMR-based mechanism analysis of membrane protein integration by MPlase (Suntory Foundation for Life Sciences Bioorganic Research Institute; Cryobiofrontier Res. Ctr., Iwate Univ.) ○YAMAGUCHI, Toshiyuki; NISHIYAMA, Ken-ichi; SHIMAMOTO, Keiko
3J5-05* Dynamic behavior of sphingomyelin in lipid raft formation examined by fluorescent lifetime measurements (Grad. Sch. Sci., Osaka Univ.; Abo Akademi University Department of biosciences) ○YASUDA, Tomokazu; MATSUMORI, Nobuaki; MURATA, Michio; SLOTTE, J. Peter

Chair: IKEDA, Atsushi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3J5-08, 3J5-10, 3J5-12, 3J5-13)
3J5-08* Development of molecular probe for membrane curvature sensing using amphiphilic polymers (Grad. Sch. Mat. Sci., NAIST) ○TSUKAMOTO, Manami; KURODA, Kenichi; KIKUCHI, Jun-ichi; YASUHARA, Kazuma
3J5-10** Imaging analysis of biomolecules in a living microalga cell using confocal Raman microspectroscopy (Inst. Eng., Tokyo Univ. of Agri. and Technol.) ○LIANG, Yue; MUKAI, Shoichiro; ANDO, Masahiro; YOSHINO, Tomoko; HAMAGUCHI, Hiro-o; TANAKA, Tsuyoshi
3J5-12 Characteristic responses of polyols to a phospholipid molecular layer and their interactions (Grad. Sch. Sci., Hiroshima Univ.) ○DEGUCHI, Ayano; SEKI, Youta; FUKUHARA, Koichi; KUMAZAWA, Noriyuki; FUJIHARA, Shouta; NAKATA, Satoshi
3J5-13 Analysis for the mechanism of A β -aggregation on lipid membrane isolated from human brain. (Grad. Sch. Sci. Tech., Keio Univ.; Tokyo Metropolitan Institute of Gerontology Department of Neuropathology; National Center for Geriatrics and Gerontology Center for Development of Advanced Medicine for Dementia) ○YASUMORI, Hanaki; MATSUBARA, Teruhiko; FUKUDA, Ryoto; OIKAWA, Naoto; HATSUTA, Hiroyuki; MURAYAMA, Shigeo; YANAGISAWA, Katsuhiko; SATO, Toshinori

Chair: MATSUBARA, Teruhiko (11 : 20~12 : 30)

- * 11:10-11:20: interval for laptop PC connection.(3J5-15, 3J5-17, 3J5-18, 3J5-19, 3J5-20, 3J5-21)
- 3J5-15*** Development of a Stimuli-Responsive Liposome Using an Amphiphilic Hinge Sugar (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○TAKEUCHI, Junji; OHKUBO, Akihiro; YUASA, Hideya
- 3J5-17** Development of chiral synthetic transmembrane-protein mimics responsive to ligands (Grad. Sch. Sci., Tohoku Univ.; Grad. Sch. Eng., The Univ. of Tokyo) ○NOGUCHI, Daiki; MURAOKA, Takahiro; TABATA, Kazuhito; NOJI, Hiroyuki; KINBARA, Kazushi
- 3J5-18** Strategic Synthetic Method of Functionalized Peptide Nucleic Acid for Cell Permeation (Graduate School of Tokyo Kasei University Graduate School of Humanities Life Sciences) ○OKAMOTO, Erina; IKEDA, Hisafumi
- 3J5-19** Construction of Three-dimensional Layered Structures of Lipid Bilayers and Reconstitution of Photosynthetic Light-harvesting Complex into the Structures (Fac. Eng. Nagoya Inst. of Tech.) ○MOMOTA, Koji; YAMADA, Tatsuki; NOGI, Tomoyasu; NANGO, Mamoru; DEWA, Takehisa
- 3J5-20[#]** Design of cell-permeable phantom carrier (Grad. Sch. Eng., The Univ. of Tokyo) ○LI, Tianqi; UCHIDA, Noriyuki; OKURO, Kou; AIDA, Takuzo
- 3J5-21** Synthesis and Characterization of Novel Cell-Penetrative Oligopeptides Possessing Hydrophobic Pyrene Groups (Fac. Sci. Tech., Ryukoku Univ.) MIYATAKE, Tomohiro; ○YAMAZAKI, Shohei; MATILE, Stefan

Saturday, March 28, PM

Sugar

Chair: OKAMOTO, Ryo (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(3J5-29, 3J5-30, 3J5-31, 3J5-32, 3J5-33)
- 3J5-29** Analyses of glycan expressed in Hepatitis C Virus sensitive cells using saccharide primer method. (Fac. Sci. Tech., Keio Univ.; Hamamatsu Univ. Sch. Med.) ○YAMAGUCHI, Hirotaka; YAMAGUCHI, Junya; KATANO, Naoya; SUZUKI, Tetsuro; SATO, Toshinori
- 3J5-30** Elucidation of conformational dynamics of high-mannose-type oligosaccharides by NMR-validated simulations (IMS; Grad. Sch. Pharm. Sci., Nagoya City Univ.; Grad. Sch. Sci., Nagoya Univ.) ○YAMAGUCHI, Takumi; SAKAE, Yoshitake; OKAMOTO, Yuko; KATO, Koichi
- 3J5-31[#]** NMR analyses of glycolipid clustering in membrane systems (Sch. Physical Sci., SOKENDAI; IMS; Grad. Sch. Pharm. Sci., Nagoya City Univ.) ○YAN, Gengwei; TAKUMI, Yamaguchi; ZHANG, Ying; NISHIMURA, Katsuyuki; KATO, Koichi
- 3J5-32** Glycan processing analysis in the ER based on selective inhibition of mannosidases (Fac. Sci. and Technol., Seikei Univ.) ○KURIBARA, Taiki; HIRANO, Makoto; ITO, Yukishige; TOTANI, Kiichiro
- 3J5-33*** An endomannosidase found in the endoplasmic reticulum triages glycoprotein depending on the folding status (Fac. Sci. and Technol., Seikei Univ.) ○HIRANO, Makoto; WATANABE, Chie; ITO, Yukishige; WILLIAMS, Spencer J.; TOTANI, Kiichiro

Chair: TOTANI, Kiichiro (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(3J5-36, 3J5-37, 3J5-39, 3J5-40)
- 3J5-36** Analysis of interaction between chemically synthesized glycoprotein and lectin chaperone-calreticulin (Grad. Sch. Sci., Osaka Univ.; ERATO, JST; RIKEN) ○OKA, Yukiho; IZUMI, Masayuki; OKAMOTO, Ryo; TAKEDA, Yoichi; SEKO, Akira; ITO, Yukishige; KAJIHARA, Yasuhiro
- 3J5-37[#]** Chemical syntheses of erythropoietin glycoforms bearing one, two or three *N*-linked sialyloligosaccharides and evaluation of these biological activities. (Sch. Sci., Osaka Univ.) ○MURAKAMI, Masumi; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro
- 3J5-39** Syntheses of chondroitin sulfate tetrasaccharide partial structures containing highly sulfated motif and their interaction analysis (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○MIYACHI, Kento; WAKAO, Masahiro; SUDA, Yasuo
- 3J5-40*** Synthesis and binding interaction analysis of dermatan sulfate disaccharide structures (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○KAKITSUBATA, Yuhai; WAKAO, 1952435400; SUDA, Yasuo

Chair: YAMAGUCHI, Takumi (16 : 00~17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(3J5-43, 3J5-44, 3J5-45, 3J5-46, 3J5-47, 3J5-48)
- 3J5-43** Fluorescence sensing of gangliosides by arginine derivatives bearing dansyl group : Effect of number of Arg (Grad. Sch. Eng., Tottori Univ.) ○TANAKA, Tomoya; SAKAMOTO, Ryouta; MATSUURA, Kazunori
- 3J5-44** Interaction analysis of ganglioside binding protein using sugar chain-immobilized nanoparticles and Sugar Chip (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○SHINCHI, Hiroyuki; ISHIDA, Hideharu; WAKAO, Masahiro; SUDA, Yasuo
- 3J5-45** Solubilization and stability of concanavalin A in hydrated ionic liquids (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SANADA, Miki; FUJITA, Kyoko; OHNO, Hiroyuki
- 3J5-46** Evaluation and Regulation of Adhesion and Proliferation of Cells on

Polysaccharide Composite Films (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.; Fac. Pharm. Sci., Tokyo Univ. of Sci.) ○TSUJI, Yuna; IJIMA, Kazutoshi; KAKIMOTO, Atsushi; NINOMIYA, Rie; IYODA, Takuya; FUKAI, Fumio; HASHIZUME, Mineo

- 3J5-47** Nanoparticle design using beta-cyclodextrin-grafted chitosan (Fac. Sci. Technol., Tokyo Univ. of Sci.; MANA, NIMS) ○MICHIKAWA, Riko; KAWAKAMI, Kohsaku; DAIMON, Yuki; KOMATSU, Hirokazu; NAKANISHI, Waka; SAKAI, Hideki; ARIGA, Kazuhiko
- 3J5-48** Studies on thermodynamic stability of rare sugars based on aldose-ketose isomerization equilibrium (Fac. Agr., Kagawa Univ.) ○IWATA, Ryoko; KOZAKAI, Taro; YOSHIHARA, Akihito; FUKADA, Kazuhiro

Sunday, March 29, AM

Chair: MATSUOKA, Koji (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4J5-01, 4J5-02, 4J5-03, 4J5-04, 4J5-05, 4J5-06)
- 4J5-01** Micro-bioreactor for highly-efficient glycoconjugate synthesis. (Sch. Eng., Tokai Univ.) ○OISHI, Takefumi; KIMURA, Hiroshi; HANEDA, Katsuji; INAZU, Toshiyuki
- 4J5-02** Systematic synthesis of heparan sulfate disaccharide library containing glucuronic acid (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○ARAMAKI, Rikiya; SUDA, Yasuo
- 4J5-03** Synthesis of 2-deoxy-2-fluoro glycosyl phosphate derivatives mimicking the sugar moiety of Leishmania (Grad. Sch. Frontier Sci., The Univ. of Tokyo; Fac. Pharm. Sci., Tokyo Univ. of Sci.) ○TAKEDA, Katsuya; NORO, Mihiko; KOBAYASHI, Satoshi; IWATA, Rintaro; WADA, Takeshi
- 4J5-04** Synthetic Studies of *N*-Acetylgalactosamine 4,6-Disulfate Derivatives (Aichi Univ. of Educ. Faculty of Education; The Univ. of Aizu Junior College Division) ○SAKURAGI, Miho; YASUDA, Sayaka; HIDARI, Kazuya; NAKANO, Hirofumi
- 4J5-05** Functionalization of aglycone moiety on sialyl galactose derivatives (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○KURIMOTO, Kenta; YAMAMURA, Hatsuo; MIYAGAWA, Atsushi
- 4J5-06** Keratanase II-catalyzed synthesis of tumor associated sulfated type II carbohydrate antigens (Kyoto Univ. Graduate School of Engineering) ○YAMAZAKI, Yuji; SEZUKURI, Kyohei; TAKADA, Junko; OHMAE, Masashi; KIMURA, Shunsaku

Chair: MIYAGAWA, Atsushi (10 : 10~10 : 50)

- * 10:00-10:10: interval for laptop PC connection.(4J5-08, 4J5-09, 4J5-11)
- 4J5-08** Protecting-group-free Synthesis of Glycopolymers with Pendant Complex-type Sialooligosaccharide and Their Binding with Influenza Virus (KIT) ○TANAKA, Tomonari; ISHITANI, Hideki; MIURA, Yoshiko; OISHI, Kenta; TAKAHASHI, Tadanobu; SUZUKI, Tahashi
- 4J5-09[#]** Synthesis of biotin-sugar conjugate as an attractive bioprobe : characterization, and their interaction with bio-functional material. (IV) (Grad. Sch. Sci., Eng., Saitama Univ.) ○KUMARI, Amrita; KOYAMA, Tetsuo; HATANO, Ken; MATSUOKA, Koji
- 4J5-11*** Synthesis of the new class of cellulase substrate by using fluorescence resonance energy transfer (FRET) effect (VII) ~Synthetic assembly of the substrate monomer~ (Grad. Sch. Sci., Eng., Saitama Univ.) ○KIMURA, Kazuhiro; TETSUKA, Toshihiro; KOYAMA, Tetsuo; HATANO, Ken; MATSUOKA, Koji

Room J6

Bldg.5(School of Pharmacy)

Biofunctional Chemistry ; Biotechnology

Thursday, March 26, AM

Nucleic Acid

Chair: SEIO, Kohji (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1J6-01, 1J6-03, 1J6-05, 1J6-06)
- 1J6-01[#]** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (10): Translation suppression mediated by triplex formed by 2-aminopyridine-modified PNA and hairpin RNA (FIBER, Konan Univ.; State University of New York at Binghamton) ○ENDO, Tamaki; ROZNER, Eriks; HNEDZKO, Dzyana; SUGIMOTO, Naoki
- 1J6-03[#]** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (11): Role of compensatory base pair variation in stem regions of FMN riboswitch aptamer on its gene regulation (FIBER, Konan Univ.) ○RODE, Ambadas; ENDO, Tamaki; SUGIMOTO, Naoki
- 1J6-05** Creating Hypoxia Specific Oligonucleotide Therapeutics System with Intracellular Environment Responsive Peptide Ribonucleic Acids (PRNAs) (IMRAM, Tohoku Univ.) ○UEMATSU, Ryohei; ASAI, Mitsuo; ARAKI, Yasuyuki; SAKAMOTO, Seiji; YAMAYOSHI, Asako; MURAKAMI, Akira; ISHIBASHI, Satoru; YOKOTA, Takanori; NAKASE, Ikuhiko; TAKAI,

Madoka; WADA, Takehiko

- 1J6-06** Effects of Arginine Residues Introduced into Peptide Ribonucleic Acids (PRNA) upon Their Cellular Uptake Ability (IMRAM, Tohoku Univ.) ○SUGAI, Hiroka; NAKASE, Ikuhiko; NISHIO, Akihiro; SAKAMOTO, Seiji; ARAKI, Yasuyuki; INOUE, Yoshihisa; TAKAI, Madoka; WADA, Takehiko

Chair: TATEISHI, Hisae (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1J6-08, 1J6-09, 1J6-11, 1J6-12, 1J6-13)

- 1J6-08** Development of a methodology for the regulation of gene expression by using PNA with the crosslinking ability (IMRAM, Tohoku Univ.) ○AKISAWA, Takuya; NAGATSUGI, Fumi

- 1J6-09*** Analysis of interactions between phosphorothioate nucleic acids and cationic artificial peptides (Fac. Pharm. Sci., Tokyo Univ. of Sci.; JST-CREST) ○MAEDA, Yusuke; NUKAGA, Youhei; IWATA, Rintaro; WADA, Takeshi

- 1J6-11** Creation of Protease-Activable Peptide Nucleic Acid (IMRAM, Tohoku Univ.) ○SAKAMOTO, Seiji; ARAKI, Yasuyuki; WADA, Takehiko

- 1J6-12** Invention of Artificial PCR System Towards Development of Functional Artificial Nucleic Acids-2 - Studies on Reactivity of the Oligomer - (IMRAM, Tohoku Univ.) ○MURAKAMI, Manami; HAGIWA, Naomichi; SAKAMOTO, Seiji; ARAKI, Yasuyuki; WADA, Takehiko

- 1J6-13** Regulation of gene expression by small molecule-inducible ribosomal frameshifting (ISIR, Osaka Univ.) ○MATSUMOTO, Saki; MURATA, Asako; HONG, Changfeng; NAKATANI, Kazuhiko

Chair: WADA, Takehiko (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1J6-15, 1J6-16, 1J6-17, 1J6-18, 1J6-19, 1J6-20)

- 1J6-15** Searching of the specific binding ligand for CTG repeat sequence (ISIR, Osaka Univ.) ○MATSUMOTO, Jun; LI, Jinxing; NAKATANI, Kazuhiko

- 1J6-16** Design and synthesis of RNA-binding molecules with enthalpy-driven manner (ISIR, Osaka Univ.) ○NATSUHARA, Nozomi; DI, Yue; MUKHERJEE, Sanjukta; MURATA, Asako; NAKATANI, Kazuhiko

- 1J6-17** Synthesis and Properties of Guanidyl Group-containing Oligodiaminogalactose Derivatives Binding to Nucleic Acid Duplexes (Grad. Sch. Frontier Sci., The Univ. of Tokyo; Fac. Pharm. Sci., Tokyo Univ. of Sci.; CREST, JST) ○HISADA, Yuki; IWATA, Rintaro; MAEDA, Yusuke; WADA, Takeshi

- 1J6-18** Construction of double-stranded nucleic acid-intercalator complex for DDS applications (Fac. Eng., Gifu Univ.; Gifu Univ. UGS Drug Discovery and Med. Info. Sci., Gifu Univ.) ○KABUMOTO, Marina; IKEDA, Masato; KITADE, Yukio

- 1J6-19** Evaluation of binding ability of sugar-modified naphthyridine derivatives to DNA and RNA (ISIR, Osaka Univ.) ○OKADA, Yasuyuki; AIKAWA, Haruo; NAKATANI, Kazuhiko

- 1J6-20** Synthesis and evaluation of naphthyridine derivatives with metal-binding moiety (ISIR, Osaka Univ.) ○AIKAWA, Haruo; OKADA, Yasuyuki; NAKATANI, Kazuhiko

Thursday, March 26, PM

Chair: KOMIYAMA, Makoto (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1J6-28, 1J6-29, 1J6-30, 1J6-31, 1J6-32)

- 1J6-28** Synthesis and Evaluation of the Fluorescent Pyrrole-Imidazole Polyamide Probe Targeting 18 bp in Human Telomeres (Grad. Sch. Sci., Kyoto Univ.; SOKENDAI Dept. of Genet.) ○KAWAMOTO, Yusuke; SASAKI, Asuka; HASHIYA, Kaori; IDE, Satoru; BANDO, Toshikazu; MAESHIMA, Kazuhiro; SUGIYAMA, Hiroshi

- 1J6-29** Development of an environmentally sensitive fluorescent 3-deaza-2'-deoxyadenosine derivative and its application to base-discriminating probes (Sch. Eng., Nihon Univ.) ○SUZUKI, Azusa; ASO, Tatsuya; SAITO, Isao; SAITO, Yoshio

- 1J6-30** Synthesis of the thieno[3,4-d]-pyrimidine-based DNA nucleosides as efficient fluorescent probes (Grad. Sch. Sci., Kyoto Univ.) ○YAMAMOTO, Seigi; PARK, Soyoun; OKAMURA, Izumi; SUGIYAMA, Hiroshi

- 1J6-31** Development of novel fluorescence probe using FRET between silylated perylene and Nile red (Grad. Sch. Sci. Tech., Gunma Univ.) ○NARIYA, Yukino; YAMADA, Keiichi; OKU, Hiroyuki; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo

- 1J6-32*** Development of strand-invader by the combination of linear probe and PNA (Grad. Sch. Eng., Nagoya Univ.; EcoTopia Sci. Inst., Nagoya Univ.; PRESTO, JST) NIWA, Rie; AKAHANE, Mariko; KAMIYA, Yukiko; KASHIDA, Hiromu; ○ASANUMA, Hiroyuki

Chair: SANDO, Shinsuke (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1J6-35, 1J6-36, 1J6-38, 1J6-39, 1J6-40)

- 1J6-35** Construction of the fluorescent sensor with high specificity for the pyrophosphate moiety of ATP (IAE, Kyoto Univ.) ○NAKANO, Shun; TAMURA, Tomoki; MORII, Takashi

- 1J6-36*** Development of the signal-on type of polymerase chain reaction system

using cytosine-bulge hairpin probe (ISIR, Osaka Univ.) ○TAKEI, Fumie; NAKATANI, Kazuhiko

- 1J6-38** Thiazole orange-conjugated peptide nucleic acid for fluorescent detection of specific sequences in dsDNA and site-selective photodamage (TARA, Univ. of Tsukuba) ○TANAKA, Makiko; SHIGI, Narumi; SUMAOKA, Jun; KOMIYAMA, Makoto

- 1J6-39** Visible light regulation of gene expression by DNAAzyme possessing azobenzene derivatives (Grad. Sch. Eng., Nagoya Univ.) ○OOI, Hideaki; TAKAGI, Toshiki; KAMIYA, Yukiko; ASANUMA, Hiroyuki

- 1J6-40** DNA triple helix specific fluorescence blinking (ISIR, Osaka Univ.; Sch. Biosci. Biotech., Tokyo Tech) ○KAWAI, Kiyohiko; MARUYAMA, Atsushi

Chair: NAKATANI, Kazuhiko (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1J6-42, 1J6-44, 1J6-46, 1J6-47)

- 1J6-42*** Development of ¹⁹F MR probe for DNA detection using Hoechst33258 skeleton (Sch. Mat. Sci., JAIST) ○SAKAMOTO, Takashi; HASEGAWA, Daisaku; FUJIMOTO, Kenzo

- 1J6-44*** ¹⁹F chemical shift imaging of nucleic acids by ultrafast DNA photocrosslinking (Sch. Mat. Sci., JAIST) ○NAKAMURA, Shigetaka; FUJIMOTO, Kenzo

- 1J6-46** Application of orientation-dependent FRET to the structural analyses of DNA duplex (Grad. Sch. Eng., Nagoya Univ.) ○KURIHARA, Ayako; NIWA, Rie; KASHIDA, Hiromu; ASANUMA, Hiroyuki

- 1J6-47** Self-Assembling Oligonucleotides for Optical Imaging of Hypoxic Regions (Grad. Sch. Eng., Kyoto Univ.) ○TAKAGI, Kohei; YOSHIHARA, Kazuki; SON, Aoi; TANABE, Kazuhito

Chair: ASANUMA, Hiroyuki (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1J6-49, 1J6-51, 1J6-52, 1J6-53, 1J6-54)

- 1J6-49**** Orthogonal assembly of RuBisCO and Carbonic Anhydrase on a DNA nanoscaffold (IAE, Kyoto Univ.) ○DINH, Huyen; NAKATA, Eiji; NGO, Tien Anh; ASHIDA, Hiroki; YOKOTA, Akiho; MORII, Takashi

- 1J6-51** Construction of organized assembly of proteins in DNA nanotube (IAE, Kyoto Univ.) ○NISHIDA, Keisuke; DINH, Huyen; NGO, Anh Tien; NAKATA, Eiji; MORII, Takashi

- 1J6-52** Construction of perylene diimide assembly using DNA structure as template (Grad. Sch. Eng., Univ. of Hyogo) ○IDO, Misa; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige

- 1J6-53** Construction of porphyrin aggregates through DNA hybridization (Grad. Sch. Eng., Univ. of Hyogo) ○IWAKI, Toshihiro; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige

- 1J6-54** Construction of photoresponsive electrodes functionalized with gold nanoparticles using DNA hybridization (Grad. Sch. Eng., Univ. of Hyogo) ○SYUNORI, Kazuo; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige

Chair: YAMANA, Kazushige (18 : 10~18 : 40)

* 18:00-18:10: interval for laptop PC connection.(1J6-56, 1J6-57, 1J6-58)

- 1J6-56** Synthetic molecules for cell-surface functionalization (1): On-cell molecule sensing by functional oligonucleotides (Grad. Sch. Eng., The Univ. of Tokyo) ○TSUCHIYA, Akira; HASHIM, Siti Norulhuda; ISE, Shoko; SANDO, Shinsuke

- 1J6-57** Synthetic molecules for cell-surface functionalization (2) : Exploration of lipid tags that realize efficient anchoring of functional nucleic acid on cell surface (Grad. Sch. Eng., The Univ. of Tokyo) ○FURUHATA, Takafumi; KUWAHATA, Kohei; SANDO, Shinsuke

- 1J6-58** Synthesis and functions of a molecular sensor composed of DNA and lipid molecules (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○SHOHDA, Koh-ichiro; SUYAMA, Akira

Friday, March 27, AM

Nucleic Acid

Chair: SUGIYAMA, Hiroshi (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2J6-01, 2J6-03, 2J6-04, 2J6-05, 2J6-06)

- 2J6-01*** Construction of an enzyme assembly on DNA nanostructure (IAE, Kyoto Univ.) NGO, Anh Tien; ○NAKATA, Eiji; SAIMURA, Masayuki; MORII, Takashi

- 2J6-03** Formation of a covalent linkage of single protein molecule to DNA nanostructure through a DNA binding adaptor (IAE, Kyoto Univ.) ○SASAKI, Kenta; NAKATA, Eiji; SAIMURA, Masayuki; MORII, Takashi

- 2J6-04** Covalent bond protein formation of a single protein molecule at a defined position on DNA nanoscaffold by using a tag-protein-fused DNA binding adaptor (Institute of Advanced Energy, Kyoto Univ.) ○TODA, Takahito; NAKATA, Eiji; SAIMURA, Masayuki; MORII, Takashi

- 2J6-05** Detection of influenza virus using sialyllactose -modified 3-way junction DNA (Grad. Sch. Human Dev. Env., Kobe Univ.; ISIR, Osaka Univ.) ○YAMABE, Miyuki; AKAMATSU, Daichi; EBARA, Yasuhiro; KAIHATSU, Kunihiko; KATO, Nobuo

- 2J6-06** Discovery of transcriptional regulator RNA motifs with specific

binding ability to HEXIMI (KIT) YOSHIMOTO, Asako;
 ○YOSHIMOTO, Kodai; KISHIMOTO, Kyosuke; KOBORI, Akio;
 MURAKAMI, Akira

Chair: KOBORI, Akio (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2J6-08, 2J6-09, 2J6-10, 2J6-11, 2J6-13)

2J6-08 Single-molecule observation of interaction of RNA aptamers (Grad. Sch. Sci., Kyoto Univ.) ○TAKEUCHI, Yosuke; ENDO, Masayuki; HIDAKA, Kumi; TOULMÉ, Jean-jacques; SUGIYAMA, Hiroshi

2J6-09 Single-molecule mechanochemical sensing using DNA nanostructures (iCeMS, Kyoto Univ.; Univ. of Kent) ○ENDO, Masayuki; KOIRALA, Deepak; SHRESTHA, Prakash; MANDAL, Shankar; EMURA, Tomoko; HIDAKA, Kumi; MAO, Hanbin; SUGIYAMA, Hiroshi

2J6-10[#] Lipid bilayer-supported two-dimensional self-assembly of DNA origami nanostructures (Grad. Sch. Sci., Kyoto Univ.) ○SUZUKI, Yuki; ENDO, Masayuki; SUGIYAMA, Hiroshi

2J6-11[#] Evaluation of the cluster effect by systematically assembling ATP-binding RNP receptors on DNA origami (IAE, Kyoto Univ.) ○ANNONI, Chiara; NAKANO, Shun; YOSHIMURA, Yuki; NAKATA, Eiji; MORII, Takashi

2J6-13 Evaluation of the substrate selectivity of clustered receptors (IAE, Kyoto Univ.) ○YOSHIMURA, Yuki; ANNONI, Chiara; NAKANO, Shun; NAKATA, Eiji; MORII, Takashi

Chair: MORI-I, Takashi (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(2J6-15, 2J6-17, 2J6-18, 2J6-19)

2J6-15[#] Design and synthesis of novel small-molecule ligand for targeting CUG trinucleotide repeat (ISIR, Osaka Univ.) ○LI, Jinxing; MATSUMOTO, Jun; NAKATANI, Kazuhiko

2J6-17[#] Multiple chemical approaches control cell adhesion (Fac. Med., Univ. of Miyazaki) ○LIU, Hongshan; ISHIZUKA, Takumi; XU, Yan

2J6-18[#] Macrocyclic Polyoxazoles as telomere RNA and DNA G-Quadruplex-binding Ligands (Fac. Med., Univ. of Miyazaki) ○LIU, Xiao; ISHIZUKA, Takumi; XIAO, Chaoda; IIDA, Keisuke; NAGASAWA, Kazuo; XU, Yan

2J6-19[#] ¹⁹F NMR for probing human telomere RNA G-quadruplex structure (Fac. Med., Univ. of Miyazaki) ○BAO, Hongliang; ISHIZUKA, Takumi; XU, Yan

Friday, March 27, PM

Chair: YOSHIDA, Wataru (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(2J6-34, 2J6-35, 2J6-36, 2J6-37, 2J6-39)

2J6-34 Creation of N3-modified thioflavin T analogs targeting G-quadruplex (Grad. Sch. Sci. Tech., Gunma Univ.) ○KATAOKA, Yuka; FUJITA, Hiroto; KASAHARA, Yuuya; KUWAHARA, Masayasu

2J6-35 Development of a visual gene detection method with low background using polymerase reactions. (Grad. Sch. Sci. Tech., Gunma Univ.) ○FUJITA, Hiroto; KATAOKA, Yuka; KUWAHARA, Masayasu

2J6-36 Synthesis of G-quadruplex ligands by dual interaction strategy and evaluation of their stabilization ability (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○MA, Yue; IIDA, Keisuke; NAGASAWA, Kazuo

2J6-37[#] Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (6) : Binding mechanism of G-quadruplex and its ligands elucidated by pressure effects (FIBER, Konan Univ.) ○TAKAHASHI, Shuntaro; SUGIMOTO, Naoki

2J6-39 Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (7) : Molecular crowding effect on ribozyme- or protein-based polymerase reactions (FIBER, Konan Univ.) ○OKURA, Hiromichi; TAKAHASHI, Shuntaro; SUGIMOTO, Naoki

Chair: TORIGOE, Hidetaka (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(2J6-41, 2J6-42, 2J6-43, 2J6-44, 2J6-45, 2J6-46)

2J6-41 Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (12) : A detection system of RNA G-quadruplex with sequence-specificity utilizing thioflavin T (FIRST, Konan Univ.; Grad. Sch. Eng., Nagoya Univ.; FIBER, Konan Univ.) ○MAEDA, Ryuichi; MORIMOTO, Kazuhiro; KASHIDA, Hiromu; ASANUMA, Hiroyuki; SUGIMOTO, Naoki; MIYOSHI, Daisuke

2J6-42 Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (14) : Development of RNA G-quadruplex specific ligands (FIRST, Konan Univ.) MATSUNO, Hitoshi; SHIMONO, Shu-ji; SUGIMOTO, Naoki; ○MIYOSHI, Daisuke

2J6-43[#] Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (8) : Importance of interaction between loop regions affecting stabilization of i-motif DNA structure (FIBER, Konan Univ.) ○FUJII, Taiga; SUGIMOTO, Naoki

2J6-44[#] Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (9) : Development of novel guanine derivative to recognize 8-oxoguanine in G-quadruplex (FIBER, Konan Univ.) ○FUJII, Taiga; SUGIMOTO, Naoki

2J6-45 Development of DNA methylation detection system focused on stability of G-quadruplex structure (TUT) ○YOSHIOKA, Hitomi; IIDA, Keisuke; NAGASAWA, Kazuo; Ikebukuro, Kazunori; KARUBE, Isao;

YOSHIDA, Wataru

2J6-46 Development of G-quadruplex DNA and RNA Specific-Binding Proteins (Shizuoka University Graduate School of Science) ○MIYAWAKI, Arisa; TAKAHAMA, Kentaro; OKUSHIMA, Ayako; OYOSHI, Takanori

Chair: KUWAHARA, Masayasu (16 : 50~17 : 50)

* 16:40-16:50: interval for laptop PC connection.(2J6-48, 2J6-50, 2J6-51, 2J6-53)

2J6-48[#] Detection of the prion by the peroxidase activity of hemin-quadruplex RNA complex (Fac. Sci., Tokyo Univ. of Sci.; IAE, Kyoto Univ.) HASHIZUME, Yukiko; MASHIMA, Tsukasa; KATAHIRA, Masato; ○TORIGOE, Hidetaka

2J6-50 Synthesis of unsymmetrical macrocyclic hexaazole compounds and evaluation of the stabilizing ability of telomeric G-quadruplex (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SAKUMA, Mai; TSUSHIMA, Yamato; MA, Yue; IIDA, Keisuke; NAGASAWA, Kazuo

2J6-51[#] Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (1) : DNA G-quadruplexes control RNA-folding and gene expression (FIBER, Konan Univ.) ○TATEISHI, Hisae; ENDOH, Tamaki; SUGIMOTO, Naoki

2J6-53[#] Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (2) : DNA G-triplexes control production of RNA transcript (FIBER, Konan Univ.) ○SUBRAMANIAM, Rajalakshmi; TATEISHI, Hisae; SUGIMOTO, Naoki

Chair: NAGASAWA, Kazuo (18 : 00~18 : 40)

* 17:50-18:00: interval for laptop PC connection.(2J6-55, 2J6-56, 2J6-57, 2J6-58)

2J6-55 Preparation and evaluation of the mismatch binding molecule immobilized Au-SiO₂ surface. (ISIR, Osaka Univ.) ○MICHIKAWA, Akiko; VERMA, Rajiv Kumar; NAKATANI, Kazuhiko

2J6-56[#] Synthesis and properties of oligonucleotides containing isophthalic acid derivatives (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○KAEWSOMBOON, Tanasak; SHIMOYAMA, Atsushi; YUASA, Hideya; OHKUBO, Akihiro

2J6-57 Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (5) : Microscopic analysis of the binding of molecular ions to DNA using molecular dynamics simulation (FIBER, Konan Univ.) ○NAKANO, Miki; TATEISHI, Hisae; TANAKA, Shigenori; SUGIMOTO, Naoki

2J6-58 Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (13) : Kinetic analysis for adsorption of structured DNA onto graphene oxide (FIRST, Konan Univ.; FIBER, Konan Univ.) ○UEDA, Yu-mi; ZOZUMI, Yu-ki; SUGIMOTO, Naoki; MIYOSHI, Daisuke

Saturday, March 28, AM

Nucleic Acid

Chair: TAKEOKA, Shinji (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3J6-01, 3J6-02, 3J6-03, 3J6-04, 3J6-05)

3J6-01 Preparation of potassium ion responsive hydrogels using DNA-PEG-DNA triblock copolymers (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○TANAKA, Shizuma; FUKUSHIMA, Kazuki; WAKABAYASHI, Kenta; KUZUYA, Akinori; OHYA, Yuichi

3J6-02 A pH-responsive Hydrogel using DNA-PEG-DNA triblock as macromonomers (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○FUKUSHIMA, Kazuki; TANAKA, Shizuma; WAKABAYASHI, Kenta; KUZUYA, Akinori; OHYA, Yuichi

3J6-03 Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (3) : Regulation of transcription by cyclic naphthalene diimide of G-quadruplex DNA binding ligand (FIBER, Konan Univ.) ○TATEISHI, Hisae; ESAKI, Yugo; SATO, Shinobu; TAKENAKA, Shigeori; SUGIMOTO, Naoki

3J6-04[#] Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (4) : Interaction of nucleolin with DNA and RNA G-quadruplexes (FIBER, Konan Univ.) ○PRAMANIK, Smritimoy; TATEISHI, Hisae; TAKAHASHI, Shuntaro; NAOKI, Sugimoto

3J6-05[#] Effects of conformationally restricted guanines on G-quadruplex structure (Fac. Med., Univ. of Miyazaki) ○ISHIZUKA, Takumi; XU, Yan

Chair: XU, Yan (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3J6-08, 3J6-10, 3J6-12)

3J6-08[#] Identification of nucleic binding specificities of TAF15 (Shizuoka University Graduate School of Science) ○TAKAHAMA, Kentaro; OKUSHIMA, Ayako; OYOSHI, Takanori

3J6-10[#] Development of a small molecule that binds RNA G-quadruplex and its utilization (iCeMS, Kyoto Univ.) ○KATSUDA, Yousuke; SATO, Shin-ichi; UESUGI, Motonari

3J6-12[#] Live-Cell Imaging of Endogenous mRNAs with a Small Molecule (iCeMS, Kyoto Univ.) ○SATO, Shin-ichi; YOUSUKE, Katsuda; MIZUKI, Watanabe; MOTONARI, Uesugi

Chair: KUZUYA, Akinori (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3J6-15, 3J6-16, 3J6-17, 3J6-19, 3J6-20)

3J6-15 G-quadruplex formation triggered by irradiation of Malachite Green

copolymer (Dept. of Chem. Eng., NNCT) NISHIMOTO, Noriko; OUDA, Ryoko

- 3J6-16** Structural characterization of a complex between heme and G-quadruplex DNA formed from d(TTAGGGT) (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○KINOSHITA, Masashi; SHIMIZU, Haruna; TAI, Hulin; SAITO, Kaori; SHIBATA, Tomokazu; YAMAMOTO, Yasuhiko
- 3J6-17*** A firmly hybridizable, DNA-like architecture with DAD/ADA and ADD/DAA-type nonnatural base pairs (Grad. Sch. Med. Pharm. Sci. Edu., Univ. of Toyama) ○SHIRATO, Wataru; CHIBA, Junya; INOUE, Masahiko
- 3J6-19** Enzymatic Ligation of Precisely Designed, C-Nucleoside-based Chimeric DNAs by T4 DNA Ligase (Grad. Sch. Pharm. Sci., Univ. of Toyama) ○ODA, Yutaro; KUROSAKI, Fumihiko; SHIRATO, Wataru; CHIBA, Junya; INOUE, Masahiko
- 3J6-20** Synthesis and evaluation of the reactivity of 7-deaza-6-vinylguanosine derivatives (IMRAM, Tohoku Univ.) ○ABE, Yusuke; YAMADA, Ken; NAGATSUGI, Fumi; IDA, Yuta; KUSANO, Shuhei

Saturday, March 28, PM

Chair: INOUE, Masahiko (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3J6-28, 3J6-30, 3J6-32)
- 3J6-28*** Design of a novel acyclic artificial nucleic acid for the stabilization of duplexes with natural nucleic acids (Grad. Sch. Eng., Nagoya Univ.) ○MURAYAMA, Keiji; KASHIDA, Hiromu; ASANUMA, Hiroyuki
- 3J6-30*** Control of the thermal stability of DNA duplexes based on metal complexation of 5-hydroxyuracil nucleobases (Grad. Sch. Sci., The Univ. of Tokyo) ○NISHIYAMA, Kotaro; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiro
- 3J6-32*** Development of novel pseudo base pair based on charge transfer interaction and its formation of artificial duplex (Grad. Sch. Eng., Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.) ○DOI, Tetsuya; SAKAKIBARA, Takumi; KASHIDA, Hiromu; ASANUMA, Hiroyuki
- Chair: SHINOZUKA, Kazuo (14 : 40~15 : 40)
- * 14:30-14:40: interval for laptop PC connection.(3J6-35, 3J6-36, 3J6-37, 3J6-39, 3J6-40)
- 3J6-35** Time-resolved study on duplex formation and dissociation of photoresponsive DNA (Grad. Sch. Sci., Kyoto Univ.) ○NAKASONE, Yusuke; OOI, Hideaki; KAMIYA, Yukiko; ASANUMA, Hiroyuki; TERAZIMA, Masahide
- 3J6-36** Inhibition of gene expression of EGFP mRNA in living cells using photoresponsive α -haloaldehyde derivative-conjugated oligoribonucleotides (KIT) SUGIHARA, Yuta; ○NAKATA, Yuki; YAMAYOSHI, Asako; MURAKAMI, Akira; KOBORI, Akio
- 3J6-37*** Development and photo-cross-linking properties of photoresponsive oligonucleotides having a caged α -haloaldehyde group (KIT) ○SUGIHARA, Yuta; NAKATA, Yuki; YAMAYOSHI, Asako; MURAKAMI, Akira; KOBORI, Akio
- 3J6-39** Locating the uracil-5-yl radical formed in DNA containing 5-bromouracil (Grad. Sch. Sci., Kyoto Univ.) ○HASHIYA, Fumitaka; SUGIYAMA, Hiroshi
- 3J6-40** Stereocontrolled synthesis of dinucleoside phosphorothioates using chiral acids as activators (Fac. Eng., Gifu Univ.) ○ORI, Kensuke; OKA, Natsuhisa; ANDO, Kaori

Chair: KOBORI, Akio (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3J6-42, 3J6-43, 3J6-44, 3J6-45, 3J6-46, 3J6-47)
- 3J6-42** Synthesis and properties of modified triplex forming oligonucleotides containing thiocarbonyl groups (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○MIYAUCHI, Koichiro; SHIMOYAMA, Atsushi; YUASA, Hideya; OHKUBO, Akihiro
- 3J6-43** Synthesis and properties of a modified DNA containing dithioacetal linkage (Grad. Sch. Sci. Tech., Gunma Univ.) ○SEKINE, Mitsuaki; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo
- 3J6-44** Development of novel modified DNA including deoxyuridine having guanidinium group at the C-5 position (Grad. Sch. Sci. Tech., Gunma Univ.) ○HORIGUCHI, Yuka; YAMADA, Keiichi; OKU, Hiroyuki; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo
- 3J6-45** Synthesis and evaluation of a 2'-5' modified branch RNA containing 5'-amino guanosine at the branch point (Sch. Biosci. Biotech., Tokyo Tech; McGill University Department of Chemistry) TAGO, Nobuhiro; ○KITAGAWA, Ryo; KATOLIK, Adam; CLARK, Nathaniel; MONTEMAYOR, Eric; HART, P. John; MASAKI, Yoshiaki; KANAMORI, Takashi; SEKINE, Mitsuo; SEIO, Kohji; DAMHA, Masad
- 3J6-46** Hybridization property and gene regulation by phosphorothioate DNA having C-5 trisamine modified 2'-OMe uridine (Grad. Sch. Sci. Tech., Gunma Univ.) ○KOBORI, Seiichi; OKU, Hiroyuki; YAMADA, Keiichi; MORIGUCHI, Tomohisa; INOUE, Yusuke; SHINOZUKA, Kazuo
- 3J6-47** Secondary structure formation of amphiphilic DNAs and their binding to the lipid bilayer membrane (ISIR, Osaka Univ.) ○YAMAGUCHI, Hayato; MATSUZAKI, Koichi; MAKISHI, Shingo; DOHNO, Chikara; NAKATANI, Kazuhiko

Chair: DOHNO, Chikara (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(3J6-49, 3J6-51, 3J6-52)
- 3J6-49**** Induction of an Artificial DNA Three-way Junction Structure Triggered by Metal Complexation (Grad. Sch. Sci., The Univ. of Tokyo) ○TAKEZAWA, Yusuke; YONEDA, Shuhei; SHIONOYA, Mitsuhiro
- 3J6-51** Synthesis of nucleosides by Mitsunobu N-glycosidation reactions (Grad. Sch. Biosci. Biotech., Tokyo Tech) TOKUGAWA, Munefumi; ○KANEKO, Kazuhei; KANAMORI, Takashi; MASAKI, Yoshiaki; SEKINE, Mitsuo; SEIO, Kohji
- 3J6-52** Synthesis and properties of 2'-O-[2-(N-methylcarbonyl)ethyl] (MCE) modified 2-thioribothymidine (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○YAMAMOTO, Keishi; MASAKI, Yoshiaki; ISHII, Akihiro; INDE, Takeshi; KANAMORI, Takashi; SEIO, Kohji; SEKINE, Mitsuo

Sunday, March 29, AM

Nucleic Acid

Chair: MORI-I, Takashi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4J6-01, 4J6-03, 4J6-04, 4J6-05)
- 4J6-01**** The mechanism of DNA demethylation by Tet protein (Kyoto Univ. Graduate School of Science) ○KIZAKI, Seiichi; SUZUKI, Yuki; CHANDRAN, Anandhakumar; HAN, Yongwoon; ENDO, Masayuki; HARADA, Yoshie; SUGIYAMA, Hiroshi
- 4J6-03** Methylation analysis in hTERT Gene using Electrochemical hybridization assay (Grad. Sch. Eng., KIT) HARAGUCHI, Kazuya; SAEKI, Toshiro; ○SATO, Shinobu; TOMINAGA, Kazuhiro; TAKENAKA, Shigeori
- 4J6-04** Electrochemical gene detection of ferrocenyl naphthalene diimide carrying β -cyclodextrin coupled with DNA-immobilized electrode (Grad. Sch. Eng., KIT) ○YAGAWA, Saori; SATO, Shinobu; TAKENAKA, Shigeori
- 4J6-05*** Dualozyme: a dually activatable allosteric ribozyme (Grad. Sch. Sci., The Univ. of Tokyo; Grad. Sch. Pharm. Sci., Tohoku Univ.) ○KURIYAMA, Mituhiro; NUMAZAKI, Takumi; KONDO, Yoshinori; KATO, Yoshio; TANAKA, Yoshiyuki

Chair: TAKEZAWA, Yusuke (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4J6-08, 4J6-09, 4J6-10, 4J6-12, 4J6-13)
- 4J6-08** Development of DNA-based hybrid catalyst by rational creation of an active site. (Grad. Sch. Sci., Kyoto Univ.) ○OKAMURA, Izumi; PARK, Soyoung; SUGIYAMA, Hiroshi
- 4J6-09** Investigation of DNA metalloenzymes for asymmetric Diels-Alder reaction (Grad. Sch. Sci., Kyoto Univ.) ○PARK, Soyoung; OKAMURA, Izumi; SUGIYAMA, Hiroshi
- 4J6-10*** Screening of ribonucleopeptide libraries with catalytic groups (IAE, Kyoto Univ.) ○TAMURA, Tomoki; ARIYAMA, Kenta; NAKANO, Shun; MORII, Takashi
- 4J6-12** Evaluation of an ester hydrolysis activity of ribonucleopeptide with a zinc(II) complex (IAE, Kyoto Univ.) ○ARIYAMA, Kenta; TAMURA, Tomoki; NAKANO, Shun; MORII, Takashi
- 4J6-13*** Stimuli-responsive DNA splicing through global conformational change (Grad. Sch. Sci. Technol., Kumamoto Univ.; CREST, JST) ○IHARA, Toshihiro; OHURA, Hiroyuki; KODANI, Hidenaga; URATA, Shoma; KITAMURA, Yusuke

Chair: IHARA, Toshihiro (11 : 20~11 : 40)

- * 11:10-11:20: interval for laptop PC connection.(4J6-15, 4J6-16)
- 4J6-15** Synthesis and properties of 3'-O-protected nucleoside 5'-triphosphate derivatives (Sch. Biosci. Biotech., Tokyo Tech) ○TANAKA, Hirotomo; SHIMOYAMA, Atsushi; YUASA, Hideya; OHKUBO, Akihiro
- 4J6-16** Reduction-activatable protecting groups for the synthesis of polynucleotides (Fac. Eng., Kanagawa Univ.) ○SANEYOSHI, Hisao; IKETANI, Koichi; KONDO, Kazuhiko; HIYOSHI, Yuki; OKAMOTO, Itaru; ONO, Akira

Room J7
Bldg.5(School of Pharmacy)

Chemical Biology

Thursday, March 26, AM

Chair: FUKASE, Koichi (10 : 30~11 : 30)

- * 10:20-10:30: interval for laptop PC connection.(1J7-10)
- 1J7-10** CSJ Award for Creative Works Development of antibacterial Agents using Chemical Biology Techniques (Grad. Sch. Life Sci., Tohoku Univ.) ○ARIMOTO, Hirokazu

Chair: ITTO, Kaori (11 : 40~12 : 20)

- * 11:30-11:40: interval for laptop PC connection.(1J7-17, 1J7-18, 1J7-19, 1J7-20)
- 1J7-17** Application of dual-probe photoaffinity labeling toward exploration of carbohydrate binding proteins (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○OZAWA, Shimpei; SAKURAI, Kaori; ISHIKAWA, Hideaki
- 1J7-18** Iron-catalyzed tyrosine-specific chemical modification of proteins with luminol derivatives (Chem. Res. Lab., Tokyo Tech) ○NAKAMURA, Kosuke; SATO, Shinichi; NAKAMURA, Hiroyuki
- 1J7-19** Regulation of protein functions with sterically-bulky synthetic protection groups (Fac. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○KATADA, Sumika; YAMAGUCHI, Satoshi; SHIOTA, Hidefumi; OKAMOTO, Akimitsu
- 1J7-20** Paramagnetic NMR study of proteins with DOTA-M8 ligands (RIKEN Synthetic Organic Chemistry Laboratory; RIKEN CSRS; RIKEN QBiC; Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) ○HIKONE, Yuya; INOMATA, Kohsuke; KAMOSHIDA, Hajime; IINUMA, Junya; HIRAI, Go; SODEOKA, Mikiko; MISHIMA, Masaki; ITO, Yutaka

Thursday, March 26, PM

Chair: YOSHIMURA, Hideaki (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1J7-28, 1J7-29, 1J7-30, 1J7-31, 1J7-32)
- 1J7-28** A labeling method for proteins in living cells using biotin ligase fused to fluorescent protein (Grad. Sch. Fac. CSSE., KIT) NISHI, Sairi; YAMAMOTO, Chihiro; ○SUEDA, Shinji
- 1J7-29** Development of a highly sensitive screening method for CXCR4 ligands based on time-resolved FRET (IBB, Tokyo Med. and Dental Univ.) ○TAKETOMI, Shohei; NOMURA, Wataru; TAMAMURA, Hirokazu
- 1J7-30** Development of pH-activatable Fluorescent Probe with Red-shifted Emission and Hydroxyapatite-binding ability (Grad. Sch. Eng., Osaka Univ.) ○MAEDA, Hiroki; KOWADA, Toshiyuki; KIKUCHI, Kazuya
- 1J7-31** Protein labeling using LDSP chemistry (1) Expansion of target proteins under living cell conditions (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○NISHIKAWA, Yuki; MASUDA, Marie; MATSUO, Kazuya; HAMACHI, Itaru
- 1J7-32[#]** Protein labeling using LDSP chemistry: Reactivity tuning for rapid labeling (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○MASUDA, Marie; MATSUO, Kazuya; NISHIKAWA, Yuki; HAMACHI, Itaru

Chair: KIGOSHI, Hideo (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1J7-35)
- 1J7-35** CSJ Award for Creative Works Studies on Syntheses of Certain Carbohydrates and Antibiotics and Development of Photoactivatable Biofunctional Molecules (Fac. Sci. Tech., Keio Univ.) ○TOSHIMA, Kazunobu

Chair: KONDO, Teruyuki (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1J7-42, 1J7-43, 1J7-44, 1J7-46)
- 1J7-42** Challenges for highly sensitive NMR molecular sensor (1): Exploration of molecular structure with long hyperpolarization lifetime (Grad. Sch. Eng., The Univ. of Tokyo; CREST, JST) ○IMAKURA, Yuki; NONAKA, Hiroshi; SANDO, Shinsuke
- 1J7-43** Challenges for highly sensitive NMR molecular sensor (2) : Hyperpolarized NMR molecular sensor for long-term analysis of biological events (Grad. Sch. Eng., Kyushu Univ.; Grad. Sch. Eng., The Univ. of Tokyo; CREST, JST) ○HIRANO, Masashi; NONAKA, Hiroshi; NISHIHARA, Tatsuya; SANDO, Shinsuke
- 1J7-44^{*}** Challenges for highly sensitive NMR molecular sensor (3): Proposal of versatile strategy for designing various hyperpolarized NMR sensors. (Grad. Sch. Eng., Kyushu Univ.; Grad. Sch. Eng., The Univ. of Tokyo; CREST, JST) ○NISHIHARA, Tatsuya; NONAKA, Hiroshi; KAMEYAMA, Yutaka; SANDO, Shinsuke
- 1J7-46^{*}** Chemical Biology of Neuronal Synapses (1) Chemical labeling of GABA receptors, major inhibitory neurotransmitter receptors. (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○YAMAURA, Kei; KIYONAKA, Shigeki; HAMACHI, Itaru

Chair: SANDO, Shinsuke (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(1J7-49, 1J7-51, 1J7-52, 1J7-53, 1J7-54)
- 1J7-49^{#*}** A novel conditional protein labeling method(1):Zinc ion responsive focused proteome analysis in live cell (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○MIKI, Takayuki; AWA, Masashi; KIYONAKA, Shigeki; HAMACHI, Itaru
- 1J7-51** A novel conditional protein labeling method(2):Tuning of the affinity and reactivity for Zinc ion (Sch. Eng., Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○RI, Shin; MIKI, Takayuki; AWA, Masashi; KIYONAKA, Shigeki; HAMACHI, Itaru
- 1J7-52** An efficient two-photon induced fluorescent naphthalene derivative sensitive to mitochondrial membrane potential (Fac. Sci., Yamaguchi Univ.) ○MORITOMO, Hiroki; FUJIKI, Shohei; SAITO, Takako; MOCHIDA,

Shuhei; TOMINAGA, Makoto; SUGIHARA, Hiroyuki; SUZUKI, Yasutaka; TANI, Seiji; KAWAMATA, Jun

- 1J7-53** Synthesis and Characterization of New Asymmetric Cyanine Dyes for DNA Stain (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○UNO, Kakishi; ITO, Hideto; SASAKI, Taeko; SATO, Yoshikatsu; SASAKI, Narie; HIGASHIYAMA, Tetsuya; ITAMI, Kenichiro
- 1J7-54^{*}** Synthesis of Exciton-Controlled Hybridization-Sensitive Fluorescent RNA probes for Monitoring of Active RNA states (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○GUO, Lihao; OKAMOTO, Akimitsu

Friday, March 27, PM

Chair: HAGIHARA, Shinya (12 : 40~13 : 40)

- * 12:30-12:40: interval for laptop PC connection.(2J7-23, 2J7-24, 2J7-25, 2J7-26, 2J7-27, 2J7-28)
- 2J7-23** Photo-responsive cell tablet for single-cell manipulation (Fac. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○TAKAGI, Risa; YAMAGUCHI, Satoshi; SAKAKIHARA, Shouchi; TABATA, Kazuhito; IINO, Ryota; NOJI, Hiroyuki; OKAMOTO, Akimitsu
- 2J7-24** Studies on Transport of Oligo dT to Cell Nucleus (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○KITAGAWA, Mai; OKAMOTO, Akimitsu
- 2J7-25** Development of the method to detect 5-hydroxymethylcytosine by sequencing and oxidation (RCAST, The Univ. of Tokyo; Grad. Sch. Eng., The Univ. of Tokyo) ○KOHYAMA, Kenta; HAYASHI, Gosuke; OKAMOTO, Akimitsu
- 2J7-26** Genetic Response upon Selective Removal of Endogenous CO in the Blood of Mice (Fac. Sci. Eng., Doshisha Univ.) ○MINEGISHI, Saika; YUMURA, Aki; KITAGISHI, Hiroaki; NEGI, Shigeru; SUGIURA, Yukio; KANO, Koji
- 2J7-27** Utilizing mesoporous silica nanoparticles for optical methods to remotely control cellular functions (Grad. Sch. Eng., Kyoto Univ.) ○NAKAMURA, Takuma; ITO, Takeo; TANABE, Kazuhito
- 2J7-28** Synthetic genetic switches for directed differentiation of human pluripotent stem cells (Grad. Sch. Sci., Kyoto Univ.) ○TANIGUCHI, Junichi; SADOI, Tatsuya; NAMASIVAYAM, Ganesh Pandian; SATO, Shinsuke; BANDO, Toshikazu; SUGIYAMA, Hiroshi

Chair: KITA, Masaki (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(2J7-30, 2J7-31, 2J7-32, 2J7-33, 2J7-34, 2J7-35)
- 2J7-30** Development of calixarene-based host molecules capable of binding histone tail (Fac. Sci., Hiroshima Univ.) ○KAJIKI, Yasunori; TOCHIO, Naoya; UEWAKI, Jun-ichi; TATE, Shin-ichi; HAINO, Takeharu
- 2J7-31[#]** Therapeutic in vivo synthetic chemistry based on unusual reactivity of propargylic esters (RIKEN Biofunctional Synthetic Chemistry) ○VONG, Kenward; TANAKA, Katsunori
- 2J7-32** Synthesis and properties of hydrogels cross-linked with mechanical stress-responsive bonds (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○HIGASHI, Kotaro; YAMAGUCHI, Satoshi; OKAMOTO, Akimitsu
- 2J7-33** Micro-patterning of plasma membrane fragments on photo-responsive surfaces (RCAST, The Univ. of Tokyo; Fac. Eng., The Univ. of Tokyo) ○MISAWA, Ryuji; YAMAGUCHI, Satoshi; YAMAHIRA, Shinya; NAGAMUNE, Teruyuki; OKAMOTO, Akimitsu
- 2J7-34** Structure-activity Relationship Study of Small-molecule Modulator of Mammalian Circadian Clock (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○OSHIMA, Tsuyoshi; YAMANAKA, Iori; MUTO, Kei; KAWAMURA, Rika; YAMAGUCHI, Junichiro; OHKAWA-NISHIWAKI, Taeko; HIROTA, Tsuyoshi; KAY, Steve A.; YOSHIMURA, Takashi; ITAMI, Kenichiro
- 2J7-35** Synthesis of silylated phenylalanine derivatives and radiobromine labeling via silicon-bromine exchange reaction. (Grad. Sch. Sci. Tech., Gunma Univ.) ○WATANABE, Saki; WATANABE, Shigeki; YAMADA, Keiichi; OKU, Hiroyuki; MORIGUCHI, Tomohisa; ISHIOKA, Noriko; SHINOZUKA, Kazuo

Chair: TAKAOKA, Yosuke (15 : 00~16 : 00)

- * 14:50-15:00: interval for laptop PC connection.(2J7-37, 2J7-39, 2J7-41)
- 2J7-37^{*}** Development of New Inducible Protein Translocation System Based on Self-Localizing Ligands and Engineered Proteins (Nagaoka Univ. of Tech. Department of Bioengineering) OKI, Choji; ○NAKAMURA, Akinobu; ISHIDA, Manabu; ISHIKAWA, Eisuke; KUWATA, Keiko; HAMACHI, Itaru; TSUKIJI, Shinya
- 2J7-39^{*}** Intracellular light-triggered CO gas signaling with supramolecular proteins (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○FUJITA, Kenta; SHO, Takeya; OZEKI, Syuichi; ABE, Satoshi; UENO, Takafumi
- 2J7-41^{*}** ATP-binding Molecular Glue for Control of Enzymatic Activity (Grad. Sch. Eng., The Univ. of Tokyo) ○OKURO, Kou; SASAKI, Mizuki; AIDA, Takuzo

Chair: TSUKIJI, Shinya (16 : 10~17 : 10)

- * 16:00-16:10: interval for laptop PC connection.(2J7-44, 2J7-45, 2J7-46, 2J7-47, 2J7-48, 2J7-49)

- 2J7-44** Analysis of the interaction between glaziovianin A and microtubule (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; Grad. Sch. Life and Env. Sci., Univ. of Tsukuba; Grad. Sch. Nat. Sci. Technol., Okayama Univ.)
○SHIODA, Shuuya; CHINEN, Takumi; USUI, Takeo; HAYAKAWA, Ichiro; KIGOSHI, Hideo
- 2J7-45** Development of a high sensitive PKC ligand binding assay method (IBB, Tokyo Med. and Dental Univ.) OHASHI, Nami; OHIGASHI, Takayoshi; NOMURA, Wataru; TAMAMURA, Hirokazu
- 2J7-46** Development of the FRET-type ligand binding assay using PKC as a model protein (IBB, Tokyo Med. and Dental Univ.) OHASHI, Nami; NOMURA, Wataru; TAMAMURA, Hirokazu
- 2J7-47** Development of useful molecular probe to reveal the mechanism of stomatal opening caused by phytotoxin coronatine (Grad. Sch. Sci., Tohoku Univ.) OIWASHITA, Toshiki; TASHITA, Ryou; TAKAOKA, Yousuke; SUZUKI, Takeshi; EGOSI, Syusuke; KASHIMOTO, Naoki; ISHIMARU, Yasuhiro; UEDA, Minoru
- 2J7-48** The importance of the sugar moiety of jasmonic acid glucoside as the leaf-closing factor (Grad. Sch. Sci., Tohoku Univ.) ONUKADZUKA, Yuuki; YANG, Ganqiang; ISHIMARU, Yasuhiro; TAMURA, Satoru; MANABE, Yoshiyuki; UEDA, Minoru
- 2J7-49** Development of a photoaffinity probe based on an anticancer saponin OSW-1 (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.)
○YAMADA, Rika; SAKURAI, Kaori

Saturday, March 28, AM

Chair: YAMAKOSHI, Hiroyuki (9 : 00 ~ 10 : 10)

- * 8:50-9:00: interval for laptop PC connection.(3J7-01, 3J7-03, 3J7-04, 3J7-05, 3J7-06)
- 3J7-01[#]** Protein-responsive nano probe (1): Mechanism of internalization and intracellular protein imaging (Grad. Sch. Eng., Kyoto Univ.) OYOSHII, Tatsuyuki; MIZUSAWA, Keigo; TAKAOKA, Yousuke; HAMACHI, Itaru
- 3J7-03** Protein-responsive nanoprobe (2): Intracellular imaging of Heat Shock Protein 90 (HSP90) (Sch. Eng., Kyoto Univ.) OIKEDA, Ryosuke; YOSHII, Tatsuyuki; TAKAOKA, Yousuke; HAMACHI, Itaru
- 3J7-04** Study on the aplyronine A binding sites to tubulin by using photoaffinity fluorescent probes (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OTSUCHIYA, Kota; YAMAGISHI, Kota; HIRAYAMA, Yuichiro; SEGUCHI, Yu; KITA, Masaki; KIGOSHI, Hideo
- 3J7-05** Evaluation of the Binding Site of Aplyronine A on Tubulin by Genetic Approach (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; Grad. Sch. Life and Env. Sci., Univ. of Tsukuba) OYAMAGISHI, Kota; TSUCHIYA, Kota; CHINEN, Takumi; USUI, Takeo; KITA, Masaki; KIGOSHI, Hideo
- 3J7-06** In vivo production of eight-membered heterocycles from acrolein and transformation to 3-formyl-3,4-dehydropiperidine (FDP) as the oxidative stress marker (RIKEN Biofunctional Synthetic Chemistry Laboratory; Grad. Sch. Sci., Osaka Univ.; Kazan Univ. A. Butlerov Institute of Chemistry; PRESTO, JST) OTAKAMATU, Masayuki; FUKASE, Koichi; TANAKA, Katsunori

Chair: TAKAOKA, Yosuke (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3J7-08, 3J7-09, 3J7-10, 3J7-11, 3J7-12, 3J7-13)
- 3J7-08** A natural compound yoshinone A that regulates fat metabolism (Fac. Sci., Kanagawa Univ.) OKAWAZOE, Yoshinori; UEMURA, Daisuke; SUENAGA, Kiyotake; OHNO, Osamu; IWASAKI, Arihiro
- 3J7-09** Synthesis of grayanotoxin probes to investigate the receptor responsible for sneezing (Fac. Sci. Tech., Keio Univ.) OUBUKATA, Yusuke; ITO, Taku; AKIYOSHI, Yuma; INOUE, Daiki; NAKATA, Masaya; SAIKAWA, Yoko
- 3J7-10** Inhibition of A β aggregation utilizing cyclo-KLVFF peptide (Grad. Sch. Pharm., The Univ. of Tokyo) OKINO, Ryuto; ARAI, Tamamas; SOHMA, Youhei; KANAI, Motomu
- 3J7-11** One-pot fluorescence labelling of live cell surface by 6 π -azaelectrocyclization (RIKEN Biofunctional Synthetic Chemistry Laboratory; Kazan Univ. A. Butlerov Institute of Chemistry; JST-PRESTO) OOGURA, Akihiro; TANAKA, Katsunori
- 3J7-12** Affinity measurement of vancomycin dimer with *Staphylococcus aureus* PBP2 using surface plasmon resonance (Grad. Sch. Life Sci., Tohoku Univ.) OHATAKEYAMA, Arisa; ITTO, Kaori; YUHARA, Yosie; ARIMOTO, Hirokazu
- 3J7-13** STD-NMR study on interaction of vancomycin dimer and *S. aureus* PBP2 (Grad. Sch. Life Sci., Tohoku Univ.) OITTO, Kaori; SAKAKURA, Masayoshi; GAMO, Keizo; YUHARA, Yoshie; TAKAHASHI, Hideo; ARIMOTO, Hirokazu

Chair: TANAKA, Katsunori (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3J7-15, 3J7-17, 3J7-19)
- 3J7-15^{*}** Live cell imaging of small molecules utilizing alkyne-tag Raman imaging (ERATO, JST; RIKEN; CREST, JST; Grad. Sch. Eng., Osaka Univ.) OYAMAKOSHI, Hiroyuki; DODO, Kosuke; PALONPON, Almar; ANDO, Jun; OKADA, Masaya; KAWATA, Satoshi; FUJITA, Katsumasa; SODEOKA, Mikiko
- 3J7-17^{*}** Construction of a library of asymmetric Si-rhodamine fluorophores based on an efficient synthesis of 4,4'-methylenebis(aniline) derivatives (Grad. Sch. Pharm., The Univ. of Tokyo; Grad. Sch. Med., The Univ. of Tokyo;

OCDD, The Univ. of Tokyo; CREST, JST; JST Basic Research Program)
○KAGAMI, Yu; HANAOKA, Kenjiro; NAGANO, Tetsuo; URANO, Yasuteru

- 3J7-19^{*}** Development of the new firefly luciferin analog aiming at detection of a free radical in the living body (Grad. Sch. Sci. Tech., Keio Univ.) OIOKA, Shuji; SAITOH, Tsuyoshi; IWANO, Satoshi; MAKI, Shojiro; NIWA, Haruki; NISHIYAMA, Shigeru; IMOTO, Masaya

Room J8

Bldg.5(School of Pharmacy)

Chemical Biology

Thursday, March 26, AM

Chair: TAKAHASHI, Daisuke (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1J8-08, 1J8-09, 1J8-10, 1J8-11, 1J8-13)
- 1J8-08** Development of Red Emissive Phospho-fluorescein Dyes and Its Application to Optical Imaging (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) OSUDA, Shinji; FUKAZAWA, Aiko; TAKI, Masayasu; SATO, Yoshikatsu; HIGASHIYAMA, Tetsuya; YAMAGUCHI, Shigehiro
- 1J8-09** Development of novel fluorescence probes for proteases using pterin derivatives (Nagahama Institute of Bio-Science and Technology)
○MATSUMOTO, Minako; KAWAI, Yasushi
- 1J8-10** Monitoring of Tumor Hypoxia Using Triple Resonance NMR: Synthesis of a Stable-isotope Labeled Phosphorylcholine Probe Targeted for Hypoxic Tumor Cell (Grad. Sch. Eng., Kyoto Univ.; Kyoto Univ. C-PIER)
○SUZUKI, Yuki; YAMADA, Hisatsugu; KIMURA, Yu; TANABE, Kazuhito; SON, Aoi; TOCHIO, Hidehito; SHIRAKAWA, Masahiro; TOSHIMITSU, Akio; AOYAMA, Yasuhiro; KONDO, Teruyuki
- 1J8-11[#]** Chemical Biology of Neuronal Synapses (1) Dynamics of the ionotropic glutamate receptors endogenously expressed in neurons. (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○KIYONAKA, Shigeki; WAKAYAMA, Sho; KOMATSU, Kazuhito; HAMACHI, Itaru
- 1J8-13** Chemical Biology of Neuronal Synapses (1) Selective labeling of metabotropic glutamate receptor subtypes. (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○OKUNO, Kyouhei; WAKAYAMA, Sho; KIYONAKA, Shigeki; HAMACHI, Itaru

Chair: KAWAI, Yasushi (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1J8-15, 1J8-16, 1J8-17, 1J8-18, 1J8-19, 1J8-20)
- 1J8-15** Development of functional molecular probe (1) : Fluorescent Sensor for Histamine Imaging (Grad. Sch. Pharm., Kyushu Univ.) OSHIKAWA, Yuji; OJIDA, Akio
- 1J8-16** Development of functional molecular probe(2):Traceless tag for promoting cellular uptake of small molecules (Grad. Sch. Pharm., Kyushu Univ.) ○AOYAMA, Eriko; OSHIKAWA, Yuji; OJIDA, Akio
- 1J8-17** Photo-Degradation of Norovirus Related Protein, VP1, by Anthraquinone-H Antigen Disaccharide Hybrids (Fac. Sci. Tech., Keio Univ.)
○SHIMURA, Takumi; OHKUBO, Sota; UENO, Haruna; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 1J8-18** Target-Selective Photo-Degradation of an Alzheimer's Disease Related Protein DYRK1A by an Anthraquinone-Harmine Hybrid (Fac. Sci. Tech., Keio Univ.) ○OKUYAMA, Mai; MASUDA, Kanae; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 1J8-19** Protein stabilization with stimuli-responsive PEGylation (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○SHIOTA, Hidefumi; YAMAGUCHI, Satoshi; OKAMOTO, Akimitsu
- 1J8-20[#]** Construction of a facile and practical assay platform for developing effective protein stabilizers (Grad. Sch. Sci., Osaka Univ.) ○CHEN, Siyu; MANABE, Yoshiyuki; MINAMOTO, Naoya; SAIKI, Naoka; FUKASE, Koichi

Thursday, March 26, PM

Chair: HIRAI, Go (13 : 30 ~ 14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1J8-28, 1J8-29, 1J8-30, 1J8-31)
- 1J8-28[#]** High-throughput screening of fucosyltransferase 8 inhibitors and study for inhibitory mechanism of the hit compound (Grad. Sch. Sci., Osaka Univ.) ○YANG, Xiaoxiao; MANABE, Yoshiyuki; KASAHARA, Satomi; TAKAMATSU, Shinji; MIYOSHI, Eiji; FUKASE, Koichi
- 1J8-29** Adhesive Photoswitch for Intracellular Control of Protein Functions (Grad. Sch. Eng., The Univ. of Tokyo) ○MOGAKI, Rina; OKURO, Kou; AIDA, Takuzo
- 1J8-30** Posttranslational hydroxylysine enrichment using periodate oxidation for LC/MS/MS analysis (Fac. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○ISHIBASHI, Maho; HAYASHI, Gosuke; OKAMOTO, Akimitsu

1J8-31 Young Scholar Lectures of CSJ Development of self-assembling nanoprobe for specific protein sensing in cells (Grad. Sch. Sci., Tohoku Univ.) ○TAKAOKA, Yosuke

Chair: SOHTOME, Yoshihiro (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1J8-35, 1J8-37, 1J8-39, 1J8-40)

1J8-35[#] Single molecule imaging of TERRA in living cells (Grad. Sch. Sci., The Univ. of Tokyo) ○YAMADA, Toshimichi; YOSHIMURA, Hideaki; HATTORI, Mitsuru; OZAWA, Takeaki

1J8-37[#] On-Cell Coordination Chemistry (1): Allosteric Regulation of Ionotropic Glutamate Receptors (iGluRs) mediated by Pd complexes (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○KUBOTA, Ryou; KIYONAKA, Shigeki; HAMACHI, Itaru

1J8-39 On-Cell Coordination Chemistry (2): Allosteric Regulation of iGluR with Various Types of Metal Complexes (Kyoto Univ. Graduate School of Engineering; CREST, JST) ○NOMURA, Wataru; MITIBATA, Yukiko; KUBOTA, Ryou; KIYONAKA, Shigeki; HAMACHI, Itaru

1J8-40 On-Cell Coordination Chemistry (3): Selective Activation of Metabotropic Glutamate Receptors (mGluR) by Pd Complexes (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○MICHIBATA, Yukiko; KUBOTA, Ryou; HANPANICH, Orakan; KIYONAKA, Shigeki; HAMACHI, Itaru

Chair: OZAWA, Takeaki (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1J8-42, 1J8-44, 1J8-46, 1J8-47)

1J8-42[#] Diazirine Photocrosslinking Recruits Activated FTO Demethylase Complexes for Specific N6-methyladenosine Recognition (RCAST, The Univ. of Tokyo) ○JEONG, Hyun Seok; OKAMOTO, Akimitsu

1J8-44^{*} Protein Labeling Chemistry(1):Development of Selective Covalent Labeling Method for Proteins and Its Application for Visualization of Proteins by Transmission Electron Microscopy (Grad. Sch. Pharm., Kyushu Univ.) ○TABATA, Shigekazu; KIDO, Munetsugu; FUCHIDA, Hirokazu; SHIGEMOTO, Ryuichi; HAMACHI, Itaru; OJIDA, Akio

1J8-46 Protein Labeling Chemistry (2): Evaluation of Reactions of His-tag Containing an Intramolecular Disulfide Bond (Grad. Sch. Pharm., Kyushu Univ.) ○LENG, Qiao; TAKAHIRA, Ikuko; TABATA, Shigekazu; HAMACHI, Itaru; OJIDA, Akio

1J8-47 Protein Labeling Chemistry (3) : Development of a reactive group for irreversible protein inhibition (Grad. Sch. Pharm., Kyushu Univ.) ○FUCHIDA, Hirokazu; SHINDO, Naoya; TABATA, Shigekazu; MIURA, Chizuru; OKAMOTO, Kei; WATARI, Kosuke; ONO, Mayumi; OJIDA, Akio

Chair: TAKAHASHI, Daisuke (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1J8-49, 1J8-51, 1J8-52, 1J8-53, 1J8-54)

1J8-49[#] Novel organelle-selective proteomic method using a set of subcellular localizable reactive small molecules (Grad. Sch. Eng., Kyoto Univ.; CREST, JST; Nagaoka Univ. of Tech.; WPI-ITbM, Nagoya Univ.) ○YASUEDA, Yuki; TAMURA, Tomonori; KUWATA, Keiko; KIYONAKA, Shigeki; TSUKIJI, Shinya; HAMACHI, Itaru

1J8-51 Development of Long-wavelength fluorogenic probes with high OFF/ON ratio for protein imaging technique utilizing PYP-tag (Grad. Sch. Eng., Osaka Univ.) ○HIRAYAMA, Shinya; HORI, Yuichiro; KIKUCHI, Kazuya

1J8-52^{*} Redesign of PYP-tag probes for fluorogenic protein labeling (Grad. Sch. Eng., Osaka Univ.) ○BENEDEK, Zsolt; HORI, Yuichiro; HIRAYAMA, Shinya; KIKUCHI, Kazuya

1J8-53 Protein Imaging Based on PYP-tag and Environment-Sensitive Fluorogenic Probe (Grad. Sch. Eng., Osaka Univ.) ○YAMAGUCHI, Kosato; HORI, Yuichiro; KIKUCHI, Kazuya

1J8-54 Synthesis of biotin-introduced probe and analysis of target biomolecules of bisbromoamide (Fac. Sci. Tech., Keio Univ.) ○FUJIKURA, Shunsuke; OHNO, Osamu; SUENAGA, Kiyotake

Friday, March 27, PM

Chair: IWAOKA, Michio (12 : 40~13 : 40)

* 12:30-12:40: interval for laptop PC connection.(2J8-23, 2J8-24, 2J8-25, 2J8-26, 2J8-27, 2J8-28)

2J8-23 Synthesis of novel 2-(2'-pyridyl)pyrroles as fluorescent probes (Grad. Sch. Eng., Utsunomiya Univ.) ○OBA, Toru; ○KOZAKAI, Kouhei; ITO, Satoshi

2J8-24 Design of the phosphorescent ruthenium complex for the real-time imaging of local oxygen concentration in living cell (Grad. Sch. Eng., Kyoto Univ.) ○HARA, Daiki; SON, Aoi; TANABE, Kazuhito

2J8-25 Development of fluorogenic probe to detect the activity of histone lysine demethylase (Grad. Sch. Eng., Osaka Univ.) ○TAO, Tomomi; HORI, Yuichiro; BABA, Reisuke; KIKUCHI, Kazuya

2J8-26 Improvement in sensitivity of FISH method for detecting 5-methylcytosine at the single-cell level (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○ICHIU, Anri; HAYASHI, Gosuke; OKAMOTO, Akimitsu

2J8-27 Development of ¹⁹F MRI Nanoprobe for Monitoring Enzyme Activity (Grad. Sch. Eng., Osaka Univ.; IFRc, Osaka Univ.) ○AKAZAWA, Kazuki; SUGIHARA, Fuminori; NAKAMURA, Tatsuya; YOSHIOKA,

Yoshichika; MIZUKAMI, Shin; KIKUCHI, Kazuya

2J8-28 Design and synthesis of caged dopamine with multiple affinity tags (Fac. Sci., Toho Univ.) ○KAKEHI, Kazuyuki; SUZUKI, Akinobu; FURUTA, Toshiaki

Chair: TANAKA, Katsunori (13 : 50~14 : 50)

* 13:40-13:50: interval for laptop PC connection.(2J8-30, 2J8-31, 2J8-32, 2J8-33, 2J8-34, 2J8-35)

2J8-30 Visualization of biomolecules using chemically activatable alkyne tag (Grad. Sch. Eng., The Univ. of Tokyo) ○URA, Manami; YAMAGUCHI, Satoshi; OKAMOTO, Akimitsu

2J8-31 Synthesis and Functional Evaluation of PEG-conjugated Chiral Dendrimer-triamine-coordinated Gd-MRI Contrast Agents (Grad. Sch. Eng., Kyoto Univ.; Kyoto Univ. C-PIER; Kyoto Univ. Grad. Sch. Inform.; ICR, Kyoto Univ.) ○MIYAKE, Yuka; KIMURA, Yu; MATSUDA, Tetsuya; IMAI, Hirohiko; TOSHIMITSU, Akio; KONDO, Teruyuki

2J8-32 Design of fluorescent DNA probe binding with higher-order structure in RNA (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○TSUJII, Sayaka; OKAMOTO, Akimitsu

2J8-33 Synthesis and Evaluation of a Biocompatible Phosphorylcholine Polymer Probe for *In Vivo* Photoacoustic Imaging (Grad. Sch. Eng., Kyoto Univ.; Kyoto Univ. C-PIER) ○MATSUMOTO, Natsuki; YAMADA, Hisatsugu; KIMURA, Yu; TOSHIMITSU, Akio; AOYAMA, Yasuhiro; KONDO, Teruyuki

2J8-34 Near-Infrared Dye-Conjugated Hyaluronic Acid Derivatives as a Contrast Agent for Photoacoustic Tumor Imaging (Grad. Sch. Eng., Kyoto Univ.; Canon Inc.) ○INOUE, Tatsuhiro; MIKI, Koji; MATSUOKA, Hideki; YAMAUCHI, Fumio; YANO, Tetsuya; OHE, Kouichi

2J8-35 Raman imaging of a turn-on type cholesterol probe on lipid bilayer membranes (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○MATSUSHITA, Taku; YAMAGUCHI, Satoshi; TOKUNAGA, Kyoya; OZEKI, Yasuyuki; OKAMOTO, Akimitsu

Chair: ITTO, Kaori (15 : 00~16 : 00)

* 14:50-15:00: interval for laptop PC connection.(2J8-37, 2J8-38, 2J8-39, 2J8-40, 2J8-41, 2J8-42)

2J8-37 Photoactivatable probe for Raman imaging (Grad. Sch. Eng., The Univ. of Tokyo) ○URANO, Wataru; YAMAGUCHI, Satoshi; OKAMOTO, Akimitsu

2J8-38 Development of fluorescent probe for visualizing local Mg²⁺ dynamics in living cells (Grad. Sch. Eng., Osaka Univ.) ○MATSUI, Yusuke; MIZUKAMI, Shin; FUNATO, Yosuke; MIKI, Hiroaki; KIKUCHI, Kazuya

2J8-39 Development of Functionalized Fluorescent Probe for Visualizing pH Environment near Target Protein (Sch. Eng., Osaka Univ.) ○SUZUKI, Shunsuke; YAMAGATA, Yusuke; MIZUKAMI, Shin; KIKUCHI, Kazuya

2J8-40 Development of fluorescent molecular probe (3) Ratiometric Fluorescence sensing of Hydrogen Sulfide Based on Arene-Metal ion contact (Grad. Sch. Pharm., Kyushu Univ.) ○KAWAGOE, Ryosuke; TAKASHIMA, Ipeji; OJIDA, Akio

2J8-41 Development of functional molecular probe(4): Fluorescence ratiometric sensing of zinc ion based on AM contact (Grad. Sch. Pharm., Kyushu Univ.) ○KANEGAE, Anna; TAKASHIMA, Ipeji; OJIDA, Akio

2J8-42 Photo acoustic imaging of tumor tissue by gold nanorods possessing nitroimidazole unit (Sch. Eng., Kyoto Univ.) ○KAGEYAMA, Toki; SON, Aoi; TANABE, Kazuhito

Chair: TABATA, Shigekazu (16 : 10~17 : 10)

* 16:00-16:10: interval for laptop PC connection.(2J8-44, 2J8-45, 2J8-46, 2J8-47, 2J8-48, 2J8-49)

2J8-44 Localization control of nucleic acid probes which detect RNA in living cells (Grad. Sch. Eng., The Univ. of Tokyo) ○YANASE, Masafumi; HAYASHI, Gosuke; TAKEDA, Katsuya; OH, Tan; OKAMOTO, Akimitsu

2J8-45 Strategy to therapeutic in vivo synthetic chemistry: new reduction protocol under oxidative stress conditions (RIKEN Biofunctional Synthetic Chemistry Laboratory; Grad. Sch. Advanced Sci. Eng., Waseda Univ.; Kazan Univ. A. Butlerov Institute of Chemistry; PRESTO, JST) ○TSUBOKURA, Kazuki; NAKAO, Yoichi; TANAKA, Katsunori

2J8-46 Molecular design of selenopeptides mimicking glutathione peroxidase activity center (Sch. Sci., Tokai Univ.) ○BABE, Natsuki; SUZUKI, Toshiaki; IWAOKA, Michio

2J8-47 Synthesis of selenopeptides mimicking the glutathione peroxidase active center. (Sch. Sci., Tokai Univ.) ○SHIMODAIRA, Shingo; TAKEI, Toshiaki; HOJO, Hironobu; IWAOKA, Michio

2J8-48 Design of chemiluminescent system using naphthalene endoperoxide and 1,2-dioxetane formation (Grad. Sch. Eng., Kyoto Univ.) ○UMEHARA, Yui; TANABE, Kazuhito

2J8-49 Synthesis of Functional Histone for Capture of Histone Modifying Protein (RCAST, The Univ. of Tokyo) ○TAKENAKA, Mei; OKAMOTO, Akimitsu

Chair: OBA, Toru (17 : 20~18 : 10)

* 17:10-17:20: interval for laptop PC connection.(2J8-51, 2J8-52, 2J8-53, 2J8-54, 2J8-55)

2J8-51 Chemical synthesis of histone H2B for epigenetics study (Grad. Sch. Eng., The Univ. of Tokyo) ○SAKAKIBARA, Daisuke; HAYASHI,

Gosuke; OKAMOTO, Akimitsu

- 2J8-52** Total chemical synthesis of linker histone H1 for epigenetic research (Grad. Sch. Eng., The Univ. of Tokyo) ○SAKAMOTO, Ryosuke; HAYASHI, Gosuke; OKAMOTO, Akimitsu
- 2J8-53[#]** Synthesis of Sugar-Au composite nanoparticles on the basis of sugar cluster effect (IV) ~Biological evaluation of the nanoparticles on sugar cluster effect~ (Fac. Eng., Saitama Univ.) ○SAKAMOTO, Takeru; KOYAMA, Tetsuo; HATANO, Ken; MATSUOKA, Koji
- 2J8-54** Control of Artificial Cell using Artificial Reaction Promoter (NIMS MANA) ○KOMATSU, Hirokazu; MICHIKAWA, Riko; NAKANISHI, Jun; KAWAKAMI, Kohsaku; NAKANISHI, Waka; HILL, Jonathan; ARIGA, Katsuhiko
- 2J8-55** Study of target proteins of 8-nitro-cGMP using chemical probe (Grad. Sch. Life Sci., Tohoku Univ.) ○HASHIMOTO, Ryota; TAKAHASHI, Eriko; TAKAHASHI, Daiki; SAITO, Yohei; ITO, Chiaki; ITTO, Kaori; ARIMOTO, Hirokazu

Saturday, March 28, AM

Chair: ONIZUKA, Kazumitsu (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3J8-01, 3J8-03, 3J8-05, 3J8-06)
- 3J8-01[#]** Far-red fluorescence detection of intracellular singlet oxygen during photodynamic therapy (ISIR, Osaka Univ.) ○KIM, Sooyeon; TACHIKAWA, Takashi; FUJITSUKA, Mamoru; MAJIMA, Tetsuro
- 3J8-03*** Development of Fluorescent Boron-Sensor for the Detection of Boron-Pharmaceuticals (Osaka Pref. Univ. Research Organization for the 21st Century) ○HATTORI, Yoshihide; ISHIMURA, Miki; OHTA, Youichiro; TAKEAKA, Hiroshi; KIRIHATA, Mitsunori
- 3J8-05** Chemical synthesis of histone H2A and its live-cell imaging (Grad. Sch. Eng., The Univ. of Tokyo) ○SUEOKA, Takuma; HAYASHI, Gosuke; OKAMOTO, Akimitsu
- 3J8-06** Chemical synthesis of poly(ADP-ribose) (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○HAYASHI, Kyohei; OKAMOTO, Akimitsu

Chair: NONAKA, Hiroshi (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3J8-08, 3J8-10, 3J8-12)
- 3J8-08*** Live cell cytoplasmic staining by fluorescent probe 1,3a,6a-triazapentarene derivative (Fac. Sci., Hokkaido Univ.) ○KAMADA, Rui; TANO, Fumi; OSAWA, Ayumi; KUDOH, Fuki; CHUMAN, Yoshiro; NAMBA, Kosuke; TANINO, Keiji; SAKAGUCHI, Kazuyasu
- 3J8-10*** Near infrared bioimaging with 1000-2000 nm light and probe synthesis (RIKEN QBiC) ○KOMATSUZAKI, Akihito; JIN, Takashi
- 3J8-12*** Intracellular oxygen concentration imaging using phosphorescence lifetime under a confocal microscope (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○KUROKAWA, Hiromi; ITO, Hidehiro; YANO, Shigenobu; INOUE, Masahiro; KAMACHI, Toshiaki

Chair: KAWAZOE, Yoshinori (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3J8-15, 3J8-17, 3J8-19)
- 3J8-15*** Inhibition of α β -peptide fibrillation by polyamine cycloadducts (RIKEN Biofunctional Synthetic Chemistry Laboratory) ○TSUTSUI, Ayumi; ZAKO, Tamotsu; BU, Tong; YAMAGUCHI, Yoshiki; MAEDA, Mizuo; TANAKA, Katsunori
- 3J8-17*** Withdrawn
- 3J8-19*** Study on the Mode of Action of Mycalolides from Marine Origin (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○YONEDA, Kozo; KITA, Masaki; KIGOSHI, Hideo

Room P

Rikoh Sports Hall

Thursday, March 26, AM

(10 : 00 ~ 11 : 30)

Education and History of Chemistry

- 1PA-001** Color Science Program for middle and high school students (Fac. Sci., Toho Univ.) ○IMAI, Izumi; TAKAHASHI, Masato; TOMINAGA, Kenichi
- 1PA-002** Development of the learning program to raise a concept of the GCS from canned aluminum recycling in a primary and secondary student (Fac. Sci., Toho Univ.) ○YAMAUCHI, Rie; IMAI, Izumi
- 1PA-003** Development of the chemical experiment about the color for primary and secondary students (Fac. Sci., Toho Univ.) ○KITANO, Yuki; IMAI, Izumi
- 1PA-004** Development of chemical education materials using a purple radish sprouts (Fac. Edu., Ehime Univ.) ○YOSHIKANE, Minori; OHASHI, Atsushi

- 1PA-005** Distinction of structural isomers of esters by hydroxamic acid iron (III) method (Grad. Sch. Mathematics Sci. Edu., Tokyo Univ. of Sci.) ○NOGAMI, Saori; INOUE, Masayuki
- 1PA-006** Synthesis of esters utilizing acetylsalicylic acid as the reagent for acetylation (Grad. Sch. Mathematics Sci. Edu., Tokyo Univ. of Sci.) ○FUJIWARA, Hiroyuki; INOUE, Masayuki
- 1PA-007** Secondary Structure Analysis of Food Protein for Laboratory Class (The Univ. of Electro-Communications Laboratory Education Support Center) ○SUGA, Torao
- 1PA-008** An Approach to Electronic Textbook for Chemical Experiment - Esterification of Acetic Acid and Ethanol - (Fac. of Edu., Tokyo Gakugei Univ.) ○IKUO, Akira; YOSHINAGA, Yusuke; OGAWA, Haruo
- 1PA-009** Study of the teaching materials of a perfume synthesis using an oxidation of an alcohol (Coll. Edu., Ibaraki Univ.) YAMAZAKI, Chiho; ○MATSUKAWA, Satoru
- 1PA-010** Development of experimental materials for stepwise oxidation of toluene (Grad. Sch. Mathematics Sci. Edu., Tokyo Univ. of Sci.) ○SHIMAMURA, Matsuiri; INOUE, Masayuki
- 1PA-011** Rapid measurement of iodine value utilizing N-chlorosuccinimide (Grad. Sch. Mathematics Sci. Edu., Tokyo Univ. of Sci.) ○KOBAYASHI, Satomi; INOUE, Masayuki
- 1PA-012** Introduction to Advanced Sciences in the University Experimental Lessons IV (Sci. Eng., The Univ. of Electro-Communications) ○OHASHI, Kazutaka
- 1PA-013** Design of classes combined chemical experiments with tablet devices at college of technology (Kobe City Coll. Technol.) ○SATO, Hirotoshi; FUKUMOTO, Kozo; OSHIO, Aiko; HATTORI, Yuichi; KATAYAMA, Osamu
- 1PA-014** Current status of Chemical Education of High School in Ehime Prefecture (Fac. Edu., Ehime Univ.) ○KAMIMORI, Takafumi; KUMAGAI, Takashi
- 1PA-015** Questionnaire survey on the understanding of combustion phenomena by children and undergraduate students and the development of the teaching materials (Yamaguchi Univ. Faculty of Education) ○NOZAWA, Seiya; WAIZUMI, Kenji
- 1PA-016** Practice of Experiment Seminar Using Easily Available Materials (AIST) ○FUJITA, Ken-ichi; HORIIKE, Etsuko
- 1PA-017** Color-change mechanism of methyl orange-albumin complex (Osaka Med. Coll. Department of Medicine) ○ITO, Shigenori
- 1PA-018** Materials for chemistry education in Mongolia (Fac. of Edu., Tokyo Gakugei Univ.) GENDENSUREN, Tamir; ○KAMATA, Masahiro
- 1PA-019** Monozukuri education in the field of chemistry through development and improvement of an automatic titrator (The Univ. of Tokushima) ○UETA, Shoko; SOTOWA, Kenichiro
- 1PA-020** Experimental teaching material for simple identification of unknown gases using a plastic syringe and a three-way stopcock: Influence of the method of gas injection into syringe (Hokkaido Univ. of Educ. Sapporo) ○TAGUCHI, Satoshi; OTAKI, Yumi; FUCHIGAMI, Satoru; CHUBACHI, Daichi; YUNOKI, Tomoya
- 1PA-021** Research of chemical education materials about rot and fermentation (Fac. Edu., Ehime Univ.) ○AZUMA, Mao; HAYASHI, Hidenori; OHASHI, Atsushi
- 1PA-022** Molecular Data for Tablets Using Application for Displaying 3D Molecular Models (Univ. of Niigata Prefecture; Univ. of Niigata Prefecture) ○HONMA, Yoshio
- 1PA-023** Lecture about how to clean the dye which stuck to some kinds of clothes and fibers for students. (Incorporated Ichikawa gakuen Department of Science) ○TOMINAGA, Kurato
- 1PA-024** Glass art of a molecular model as chemical teaching materials (Coll. Liberal Arts Sci., Kitasato Univ.) ○DAIGOKU, Kota; NOTO, Kaori
- 1PA-025** Chemistry education and research using the desktop NMR Spectrometer "picoSpin 80" (TNCT General Education (Chemistry)) ○HIROKI, Kazuaki; SAWADA, Hiromi; YAMASHITA, Naoya
- 1PA-026** Mapping of radon mineral springs for radiation education (Tottori Univ. Technical Department) ○NAKAMURA, Mariko
- 1PA-027** Examination of aramids for the experimental educational materials - Synthetic conditions of aramids- (Fac. Edu., Hirosaki Univ.) CHOUNAN, Yukiyasu; ○SHINYA, Ryota

Organic Chemistry -Reaction and Synthesis-
Organic Photochemistry

- 1PA-029** Development of Highly Efficient Light-Harvesting Systems Composed of Three-Dye Components (Grad. Sch. Eng., Shizuoka Univ.; Fac. Eng., Shizuoka Univ.) TAKAHASHI, Masaki; UI, Michiki; ○ASABA, Kyohei; SENGOKU, Tetsuya; YODA, Hidemi
- 1PA-030** Upconversion Properties of Anthracene/Ruthenium Complex Miscible Colloidal System (Grad. Sch. Eng., Shizuoka Univ.) TAKAHASHI, Masaki; MORI, Toshihiro; ○TAKESHITA, Hikaru; SENGOKU, Tetsuya; YODA, Hidemi
- 1PA-031** Photochemical Characteristics of Amphiphilic Styrylanthracene Dendrimers (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○NOGUCHI, Masamune; ARAI, Tatsuo
- 1PA-032** Synthesis and function of novel DNA cleaving molecules possessing photo-triggering functionality (The Univ. of Tokushima) ○UETA, Shoko;

NISHINO, Satoshi; YAGISHITA, Fumitoshi; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko

1PA-033 Complexation of zinc chlorophyll derivatives and water-soluble copolymers (Fac. Sci. Tech., Ryukoku Univ.) MIYATAKE, Tomohiro; OODA, Tomoya; OKI, Hisato

1PA-034 Improvement of Photosensitized Generation of Singlet Oxygen by Immobilization of Antimony Porphyrins on Liposome (Fac. Eng., Univ. of Miyazaki) OMIYAWAKI, Tetsushi; MATSUMOTO, Jin; SHIRAGAMI, Tsutomu; YASUDA, Masahide

1PA-035 Kinetic analysis for photocatalytic hydrogen evolution from saccharides using a Pt-loaded TiO₂ (Fac. Eng., Univ. of Miyazaki) OKUROGI, Ryo; SHIRAGAMI, Tsutomu; YASUDA, Masahide

1PA-036 Development of oxidative radical cyclization reaction catalyzed by calcium iodide under visible light irradiation (Gifu Pharm. Univ.) OSUKA, Mai; YAMAGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika

1PA-037 Phenacene Synthesis by Mallory Photoreaction using Flow Photoanalysis Technique (Okayama Univ. Graduate School of Natural Science and Technology) OTAKANE, Takamitsu; OKAMOTO, Hideki

1PA-038 Synthesis and fluorescent property of symmetric and asymmetric bis (benzimidazol-2-yl)pyrazines (Toho Univ. Department of Chemistry; Research Center for Materials with Integrated Properties, Toho Univ.) SAITO, Ryota; OYANAGIBA, Takumi; HITOTSUMATSU, Kumiko; SASAKI, Kaname

1PA-039 Energy transfer and fluorescence emission of aromatic enediyne derivatives (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OICHINO, Rina; ARAI, Tatsuo

1PA-040 Approach to prepare a high-performance imidazopyrazinon chemiluminescence system (Sci. Eng., The Univ. of Electro-Communications) OSUGAI, Nozomi; FUKUSHIMA, Eiichi; HIRANO, Takashi; MAKI, Shuziurou

1PA-041 Study on the firefly bioluminescence mechanism with amino substituent effects (Sci. Eng., The Univ. of Electro-Communications) OKAKIUCHI, Michio; GOTO, Fumiya; MAKI, Shojiro; HIRANO, Takashi

1PA-042 Synthesis of the unsymmetrically substituted [4]radialenes and their photoconversions to the polycyclic compounds showing solid state light emission (The Univ. of Tokushima) HASHIZUME, Hirokazu; UETA, Shoko; YAGISHITA, Fumitoshi; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko

1PA-043 Synthesis and spectroscopic properties of firefly fluorophores with donor acceptor structure (Sci. Eng., The Univ. of Electro-Communications) OFUJIKAWA, Tomoya; SUZUKI, Yoshihisa; MAKI, Shojiro; HIRANO, Takashi

1PA-044[#] Synthesis and Characterization of Thiophene Derivatives Having Electron Donating and Withdrawing Substituents (The Univ. of Tokushima Institute of Technology and Science; National Taiwan University of Science and Technology Materials Science and Engineering) YU, Chin-yang; CIOU, Pei-jia; YAGISHITA, Fumitoshi; KATO, Toshimasa; OKAWAMURA, Yasuhiko

1PA-045 Generation of the Nitrogen-bridged Tetramethyleneethane Intermediate Triggered by Photoinduced Electron Transfer (Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Osaka Pref. Univ.; Osaka Pref. Univ. The Research Institute for Molecular Electronic Devices) OAIZAWA, Kensuke; HORI, Tomohiro; SAKAKI, Shotaro; KANO, Yusuke; MATSUI, Yasunori; OHTA, Eisuke; IKEDA, Hiroshi

1PA-046 Effects of Solvent and Sacrificial Reagent on the Efficiency of Photocleavage Reaction of Caged Compounds via Photoinduced Electron Transfer (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OMORITA, Rihou; MOMOTAKE, Atsuya; ARAI, Tatsuo

1PA-047 Synthesis of C₂ Symmetry Macrocyclic Polyethers by Intramolecular Photocycloaddition Reaction of Chromone Derivatives (Grad. Sch. Eng., Chiba Univ.) SAKAMOTO, Masami; OTAIRA, Ryo; KATABIRA, Satoshi; YOSHIDA, Wataru; YAGISHITA, Fumitoshi; MINO, Takashi

1PA-048 [2+2]Photodimerization of styrylthiazoles (Ochanomizu Univ. Department of Chemistry) YAMAGAMI, Kaoru; OOKU, Saki; YAMADA, Shinji

1PA-049 An investigation of leaving groups in photo chemically induced radical addition (Grad. Sch. Sci., Hiroshima Univ.) OTAMURA, Takaaki; TAKAGI, Ryukichi; ABE, Manabu

1PA-050 Amino-substituted spirothiopyran as an efficient initiator for aggregation control of gold nanoparticles (RCSE, Osaka Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) OTANAKA, Haruki; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki

Organic Chemistry -Reaction and Synthesis- Organic Electron Transfer Chemistry

1PA-053 Synthesis of Thiophene Derivatives Bearing Donor-Acceptor Groups (Fac. Sci. Eng., Kinki Univ.) MATSUMOTO, Kouichi; OYAMADA, Yuki; KASHIMURA, Shigenori; OKUBO, Takashi; YAMAGUCHI, Yoshihiro

Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis

1PA-055 Continuous flow synthesis of methanofullerene PCBM under photo

irradiation conditions (Osaka Municipal Technical Research Institute; Fac. Sci. Tech., Ryukoku Univ.) OIWAI, Toshiyuki; MURATA, Junki; IWASAWA, Tetsuo; MATSUMOTO, Fukashi; MORIWAKI, Kazuyuki; TAKAO, Yuki; ITO, Takatoshi; MIZUNO, Takumi; OHNO, Toshinobu

1PA-056 Synthesis of Dendrimers by Reaction Integration of the Sonogashira Coupling and the Heck Reaction in Ionic Liquid (Fac. Eng., Mie Univ.; Grad. Sch. Eng., Mie Univ.) ENOMOTO, Yoshihito; YOSHIKAWA, Serina; NAKAGAWA, Nana; OKAZAKI, Takao; KITAGAWA, Toshikazu

1PA-057 Synthesis of Acyloxysilanes by Reactions of Methoxy- or Ethoxysilanes with Carboxylic Anhydrides Using Solid Acid Catalysts and/or Microwave Irradiation (Natl. Inst. of Advanced Industrial Science and Technology Interdisciplinary Research Center for Catalytic Chemistry) OYAMASHITA, Hiroshi; HATORI, Makiko; YOSHINAGA, Michiyo; SHIMADA, Shigeru; SATO, Kazuhiko

Thursday, March 26, AM

(12 : 30~14 : 00)

Inorganic Chemistry

Solution Chemistry

1PB-001 Analysis of Hydrolysis Equilibria for Aluminum Ion by quantitative ²⁷Al NMR (Grad. Sch. Eng., Kobe Univ.) OSAKATA, Genki; MAKI, Hideshi; MIZUHATA, Minoru

Polyoxometallate

1PB-002 Quick and selective synthesis of [α -P₂W₁₈O₆₂]⁶⁻ (Grad. Sch. Sci., Hiroshima Univ.) OKATO, Chisato; NISHIHARA, Sadafumi; MARYUNINA, Kseniya; TSUNASHIMA, Ryo; TATEWAKI, Yoko; INOUE, Katsuya

1PB-003 Introduction of the organic functional groups to open-Dawson POM using silane coupling reagent (Fac. Sci., Kanagawa Univ.) OHARA, Daichi; NOMIYA, Kenji; MATSUNAGA, Satoshi; INOUE, Yusuke

1PB-004 Synthesis and molecular structure of open-Dawson POM dimer containing ten indium cluster (Fac. Sci., Kanagawa Univ.) OINOUE, Yusuke; OHTAKI, Takuya; MATSUNAGA, Satoshi; NOMIYA, Kenji

1PB-005 Catalytic epoxidation of cyclooctene by hydrogen peroxide in the presence of [(VO)₃(SbW₉O₃₃)₂]¹²⁻. (Coll. Eng., Chubu Univ.) ISHIKAWA, Eri; OKIHARA, Daisuke

1PB-006 Hydration of Diphenylacetylene Catalyzed by Phosphanegold(I) Cationic Species Stabilized with Polyoxoanion (Grad. Sch. Fac. Sci., Kanagawa Univ.) ARAI, Hidekazu; HATAYAMA, Akifumi; YOSHIDA, Takuya; NOMIYA, Kenji

Solid State Chemistry

1PB-007 Switching of magnetic exchange interactions in copper(II) complexes with 3-pyridyl-substituted nitroxides (Fac. Sci., Hiroshima Univ.) OYAMAGUCHI, Kouyou; INOUE, Katsuya; NISHIHARA, Sadahumi; MARYUNINA, Kseniya

Structures and Properties

1PB-008 Crystal structures and physical properties of M(betaïne)₂X₂ (M=Cu, Ni; X=Cl, Br) (Fac. Sci., Shinshu Univ.) OSHIMIZU, Akichika; INABA, Koki; OHKI, Hiroshi; ISHIKAWA, Atsushi; TAKEUCHI, Akari

1PB-009 Effects of f-f Interactions on the Single-Molecule Magnet Properties of Dysprosium(III)-Phthalocyaninato Multiple-Decker Complexes (Grad. Sch. Sci., Tohoku Univ.) OHORII, Yoji; KATO, Keiichi; BREEDLOVE, Brian Keith; YAMASHITA, Masahiro

Layered Material, Nanosheet

1PB-010 Gigantic hydration swelling of platelet crystals of a layered perovskite oxide in aqueous solutions containing various organoammonium ions (MANA, NIMS) OSONG, Yeji; IYI, Nobuo; HOSHIDE, Tatsumasa; EBINA, Yasuo; OZAWA, Tadashi; MA, Renzhi; YAMAUCHI, Yusuke; MIYAMOTO, Nobuyoshi; SASAKI, Takayoshi

1PB-011 Degradation of swelling properties of a layered niobate perovskite - phenomena and cause (NIMS Soft chemistry group) OIYI, Nobuo; SONG, Yeji; SASAKI, Takayoshi

1PB-012 Preparation of Layer Structured Crystal Rb_{1-x}Ti_{1-x}Nb_{1+x}O₅ (0≤x≤0.20) and Hydrogen Ion Exchange Products (Tokuyama Coll. of Tech.) OHASHI, Masao

1PB-013 Reduction of Graphene Oxide using the Photocatalytic Property of Ti- and Nb-Oxide Nanosheets (MANA, NIMS) OFUNATSU, Asami; CAI, Xingke; EBINA, Yasuo; MA, Renzhi; SASAKI, Takayoshi

1PB-014 Application of benzylamines-intercalated α -zirconium phosphate as latent thermal catalysts (Fac. Eng., OIT) SHIMOMURA, Osamu; ONISHISAKO, Takatoshi; YAMAGUCHI, Shunro; ICHIHARA, Junko; OHTAKA, Atsushi; NOMURA, Ryoki

Syntheses and Reactions

- 1PB-015** Low-temperature synthesis and intercalation of Na-taeniolite series micas ($\text{Na}_x\text{Mg}_{3-x}\text{Li}_x\text{Si}_4\text{O}_{10}\text{F}_2$) (Fac. Eng., Shinshu Univ.) ○SAITOU, Kouji; YAMAGUCHI, Tomohiro; TARUTA, Seichi

Layered Material, Nanosheet

- 1PB-016** Cesium uptake by spongy formed sodium difluorotetrasilicate. (Showa Pharm. Univ. Analytical Chemistry of Medicine) ○SUZUKI, Noriko; KUSAYANAGI, Yuki; CHIKUMA, Toshiyuki
- 1PB-017** Synthesis and characterization of a layered siloxane-imidazoline hybrid (NIMS Advanced Materials Process Unit) ○FUJII, Kazuko; HASHIZUME, Hideo; SHIMOMURA, Shuichi; ANDO, Toshihiro
- 1PB-018** The intercalation reaction of carboxylic acids by carbonate-type layered double hydroxides with different Mg/Al ratio (Kobe Pharm. Univ.) ○HAYASHI, Aki; KOYAMA, Mayuka; ISHIZUKA, Kaori; MITSUHASHI, Chisato; NAKAYAMA, Hirokazu

Syntheses and Reactions

- 1PB-019** Synthesis and characterization of imogolite like nanotube functionalized by methyl groups. (Kitakyushu Nat. Coll. of Tech. Department of Material Chemistry and Engineering) ○YAMAMOTO, Kazuya; SUGISHIATA, Motoki; YAMADA, Kenji

Solid State Chemistry

- 1PB-020[#]** AEP reaction (Alkali-metal ion extraction using PTFE as an active reagent) (MANA, NIMS) ○OZAWA, Tadashi C.; SASAKI, Takayoshi

Syntheses and Reactions

- 1PB-021** Hydrothermal synthesis of rutile-type titanium oxides modified with various elements (Grad. Sch. Sci. Tech., Gunma Univ.) ○IWAMOTO, Shinji; TAMURA, Takuya; NAKAMURA, Shohei

Structures and Properties

- 1PB-022** Synthesis and catalytic properties of the new porous ionic crystals based on aluminum polyoxocation (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○MURA, Takuto; UCHIDA, Sayaka
- 1PB-023** Crystalization mechanism of synthetic montesommaite(MON)-type aluminosilicate (CCS, AIST) ○NAGASE, Takako; IKEDA, Takuji; ABE, Chie; HIYOSHI, Norihito

Solid State Chemistry

- 1PB-024** Hydrothermal Synthesis and Morphology of Sodium Tin Phosphates (Fac. Sci., Kochi Univ.) ○SATO, Hiroki; KUROSAKA, Takanori; SHIMANOUCI, Rie
- 1PB-025** Synthesis of non-Stoichiometric Aluminum Molybdates and Crystal Structures (Fac. Sci., Kochi Univ.) SUENAGA, Yuki; NABESHIMA, Ryota; UYEYAMA, Ayumi; NAKAMURA, Yuku; ○SHIMANOUCI, Rie

Structures and Properties

- 1PB-026** Mechanochemical synthesis and proton conductive phase transition of $(\text{NH}_4)_x\text{H}(\text{SO}_4)_{2x}(\text{SeO}_4)_{2-2x}$ ($0 \leq x \leq 1$) solid solutions (Coll. Industrial Tech., Nihon Univ.) ○YAMANE, Yohei; ISHIDA, Keita; YAMADA, Koji

Porous Materials

- 1PB-027** Porous structure of scale formed by inorganic ions in tap water (Res. Inst., TOTO Ltd.) ○ISHIKAWA, Ayako; NAKANOME, Mari; MATSUMOTO, Satoru; MITSUHASHI, Yoshiharu

Analytical Chemistry

- 1PB-029** Development of Fluorescence Anion Sensor Based on Salicylhydrazone (Osaka Kyoiku Univ.) ○KUBONO, Koji; TAKEDA, Yoshitaka; TANI, Keita; YOKOI, Kunihiko
- 1PB-030** Fluorescence Properties and Proton Effect of Ion Sensor Based on Quinolinol Chromophore (Osaka Kyoiku Univ.) ○KADO, Kimiko; KUBONO, Koji; YOKOI, Kunihiko
- 1PB-031** Micro foreign matter analysis by using Temperature Rising-DART-MS (TR-DART-MS) (BioChromato, Inc.; Shiseido Research Center; Univ. of Yamanashi) ○TAKEI, Chikako; KINOSHITA, Kazumasa; NISHIGUCHI, Takao; SHIMADA, Haruo; MAENO, Katsuyuki; SHIDA, Yasuo
- 1PB-032** Visual Analytics of Polymers Using Direct Analysis in Real Time-Mass Spectrometry (DART-MS) Coupled with Kendrick Mass Defect (KMD) Analysis (SHISEIDO CO., LTD) ○MAENO, Katsuyuki; SHIMADA, Haruo; KINOSHITA, Kazumasa; SHIDA, Yasuo
- 1PB-033** Silver Nanoparticle-Decorated Glass Filter as Functional Platform

for Surface-Enhanced Raman Spectroscopy (SERS) (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○KURITA, Masahiro; ARAKAWA, Ryuichi; KAWASAKI, Hideya

- 1PB-034** Development of simple quantitative analysis using Raman spectroscopy (Sch. Eng., Nihon Univ.) ○NUMATA, Yasushi; SHINDO, Takafumi; TANAKA, Hiroyuki
- 1PB-035** Analytical study of Natural and Excavated Whetstone (Fac. Sci., Kanagawa Univ.) ○AOYANAGI, Yuki; TAKAOKA, Manami; NISHIMOTO, Yuku
- 1PB-036** Determination of trace elements in Komatsuna leaves by an XRF spectrometer Equipped with Polarization Optics. (Sch. Eng., Tokyo Denki Univ.) ○ONETA, Yuto; HOKURA, Akiko
- 1PB-037** Study on accumulation mechanism of mercury in Pteris vittata L. utilizing by synchrotron radiation X-ray (Grad. Sch. Eng., Tokyo Denki Univ.) ○TAKAHASHI, Takuto; HOKURA, Akiko
- 1PB-038** Mechanism of charge-discharge processes of restacked MoO_2 nanosheets electrode in lithium-ion battery (IOC, Kyoto Univ.) ○MORITA, Masahito; SUGAYA, Hidetaka; FUKUDA, Katsutoshi; MURAYAMA, Yoshino; OHARA, Kouji; UCHIMOTO, Yoshiharu; OGUMI, Zempachi
- 1PB-039** Development of Dye Nanoparticle-coated Test Strips for the Simultaneous Speciation Analysis of Iron(II) and Iron(III) Ions (Nagaoka Univ. of Tech.) ○USHIKI, Banri; TAKAHASHI, Yukiko
- 1PB-040** Glutathione Sensing by Fluorescence Enhancement of CdS Nanoparticles (Dept. Mat. Sci., Wakayama Nat. Coll. of Tech.) ○HAYASHI, Junjiro; WADAGUCHI, Naoya
- 1PB-041** Photodetection of redox-active molecules using stable radicals (IIS, The Univ. of Tokyo) ○YAMASAKI, Junya; ISHII, Kazuyuki
- 1PB-042** Electrophoretic Separation of Intrinsic Membrane Proteins in Supported Lipid Bilayer (Grad. Sch. Eng. Sci., Osaka Univ.) ○TSUJIMOTO, Yusuke; OKAMOTO, Yukihiko; SUGA, Keishi; UMAKOSHI, Hiroshi
- 1PB-043** Resonance ionization mass spectroscopy of Sr atoms generated in a laser ablation of strontium chloride (RIIF, AIST) ○NAGAI, Hidekazu
- 1PB-044** Alternative Triggering of Field Evaporation in Atom Probe Analysis (Kanazawa Inst. of Tech. Dept. of Applied Chemistry) ○TANIGUCHI, Masahiro; NISHIKAWA, Osamu
- 1PB-045** Elution Behavior of Monosaccharides and Sugar Alcohols in a Nobel Surface Porous Polymer Core-shell Type Ion Exchange Resin.(14th report) (Kagawa Nutrition Univ. Kagawa Education Institute of Nutrition; Josai Univ. Faculty of Pharmaceutical Sciences) ○MITOMO, Shun-ichi; NEGISHI, Yukiko; ITOH, Hisaaki
- 1PB-046** Determination of 7 kinds of Sulfa Drugs in Foods by HPLC with UV on Biphenyl Core-Shell Stationary Phase (Sch. Sci., Tokai Univ.) ○ISHIHARA, Yoshimi; SUGITA, Hirotaaka; TAKANO, Jiro; KITAMI, Hideaki
- 1PB-047** Development of a Novel DNA Electrophoresis Analysis using Near-Infrared Spectroscopy (Sch. Sci. Tech., Kwansai Gakuin Univ.; Sch. Biosci. Biotech., TUT) ○YASUDA, Mitsuru; AKIMOTO, Takuo; OZAKI, Yukihiko
- 1PB-048** Development of a microdevice for gene expression analysis at a single cell level (Sch. Eng., Nagoya Univ.) ○ITO, Shiori; YASUI, Takao; KAJI, Noritada; BABA, Yoshinobu
- 1PB-049** The boundary between mono-dispersed state and one-dimensional (1D) assembly chains in the cloud point extraction of spherical gold nanoparticles (Fac. Symb. Sys. Sci., Fukushima Univ.) ○TRAN, Thi Hue; TAKAGAI, Yoshitaka
- 1PB-050** Measurement of local sodium ion levels near micelle surfaces with fluorescent sensors (Grad. Sch. Pharm., The Univ. of Tokyo; Queen's University School of Chemistry and Chemical Engineering) ○FUKATSU, Eiko; UCHIYAMA, Seiichi; MCCLEAN, Gareth D.; DE SILVA, A. Prasanna
- 1PB-051** Selective separation of Cu^{+} by porous polymer resin loaded with bathocuproine (Grad. Sch. Eng., Meisei Univ.) ○KASUYA, Hayato; SUGIURA, Miyuki; AKAMA, Yoshifumi
- 1PB-052** Extraction of the rare earth element with Reciprocating type extraction tower (Grad. Sch. Sci., Eng., Ehime Univ.) ○MIYAZAKI, Takafumi; YAMASHITA, Hiroshi
- 1PB-053** Adsorption and evaluation of tin, niobium and tantalum to monolithic silica in highly acidic solution (Fac. Symb. Sys. Sci., Fukushima Univ.) ○MATSUO, Seiji; HASHIMOTO, Junichi; SATO, Atsushi; TAKAGAI, Yoshitaka
- 1PB-054** VOC-Adsorption and Desorption Properties of Activated Charcoal Prepared from Biomass (Fac. Sci., Kanagawa Univ.) ○SHIRAISHI, Takuto; INOMATA, Naoya; OKABE, Toshihiro; TSUGOSHI, Takahisa; NISHIMOTO, Yuku
- 1PB-055[#]** Simultaneous Measurement Method for Gaseous Ammonia and Particulate Ammonium in Ambient Air (Grad. Sch. Eng., Osaka Pref. Univ.) ○DUONG, Huy Huu; TAKENAKA, Norimichi
- 1PB-056** Bioaccumulation Of Chlorinated Polycyclic Aromatic Hydrocarbons (Graduate School of Agriculture) ○SUZUKI, Rina; OHURA, Takeshi
- 1PB-057** Cesium fluorescent probe and its application to plant Cs imaging (Tokyo Univ. of Sci. Faculty of Science and Technology; NIMS MANA) ○MATSUDA, Atsuki; KOMATSU, Hirokazu; AKAMATSU, Masaaki; ADAMS, Eri; SHIN, Ryoung; NAKANISHI, Waka; HILL, Jonathan; SAKAI, Hideki; ARIGA, Katsuhiko

- 1PB-058** Isolation and comparison of exosomes derived from mesenchymal stem cells and liver cancer cells (Sch. Eng., Nagoya Univ.) ○YOKOYAMA, Asami; YUKAWA, Hiroshi; ONOSHIMA, Daisuke; HAYASHI, Yumi; ISHIKAWA, Tetsuya; BABA, Yoshinobu
- 1PB-059** Stem cell multimodal imaging by using quantum and magnetic nano-hybrid particles (Sch. Eng., Nagoya Univ.) ○NARUSE, Reina; YUKAWA, Hiroshi; ONOSHIMA, Daisuke; HAYASHI, Yumi; ISHIKAWA, Tetsuya; BABA, Yoshinobu
- 1PB-060** Development of microfluidic device for single-cell isolation and analysis using microfluidic transfer of liquid interface (Sch. Eng., Nagoya Univ.) ○HATTORI, Yuya; ONOSHIMA, Daisuke; YUKAWA, Hiroshi; ISHIKAWA, Kenji; HORI, Masaru; BABA, Yoshinobu
- 1PB-061** Development of single cell isolation and analysis glass device with fluidic control inside open microhole by plasma treatment (Sch. Eng., Nagoya Univ.) ○YONESE, Akihiro; ONOSHIMA, Daisuke; YUKAWA, Hiroshi; ISHIKAWA, Kenji; HORI, Masaru; BABA, Yoshinobu
- 1PB-062** Stem cells imaging using nano particles with Near-Infrared-Region II fluorescence (Sch. Eng., Nagoya Univ.) ○SHIMADA, Taisuke; YUKAWA, Hiroshi; ONOSHIMA, Daisuke; NIIOKA, Hirohiko; KAMEYAMA, Tatsuya; HAYASHI, Yumi; TORIMOTO, Tsukasa; ISHIKAWA, Tetsuya; BABA, Yoshinobu
- 1PB-063[#]** Biosensing based on catalytic formation of luminous metal complexes on DNA (Grad. Sch. Sci. Technol., Kumamoto Univ.; CREST, JST) ○ZAKI, Ric; AZUMA, Yukina; ○KITAMURA, Yusuke; IHARA, Toshihiro
- 1PB-064** Development of cyanine dye-conjugated pyrazines for microRNA detection (Grad. Sch. Sci., Tohoku Univ.) ○AOKI, Daisuke; SATO, Yusuke; TERAMAE, Norio; NISHIZAWA, Seichi
- 1PB-065** Raman ratio detection of nucleic acids by pteridine derivatives (Grad. Sch. Sci., Tohoku Univ.) ○ASAMI, Takahiro; SATO, Yusuke; MORITA, Shin-ichi; NISHIZAWA, Seichi
- 1PB-066** Identification of intact double-stranded and single-stranded DNA by Atomic Force Microscopy (Grad. Sch. Eng., Nagoya Univ.) ○INAGAKI, Shigetaka; YASUI, Takao; KAJI, Noritada; BABA, Yoshinobu
- 1PB-067** Basic study of the Bactericidal effects of electrolyzed water containing hypochlorous acid-The effect of salt on the interaction with amino acids (Fac. Sci., Kanagawa Univ.) ○KUNO, Teruaki; IWASAWA, Atsuo; NISHIMOTO, Yuko
- 1PB-068** Water State of Methyl Cellulose Thermo Reversible Hydrogels -The Effect of Salt and Polyethylene Glycol - (Fac. Sci., Kanagawa Univ.) ○EGUCHI, Hiroki; MIYAKOSHI, Shizuku; NISHIMOTO, Yuko
- 1PB-069** The cultivar discrimination for the seeds of farm products (Fac. Eng., KAIT) ○KOBAYASHI, Kenta; MATSUSHITA, Yuta; SAITO, Takashi
- 1PB-070** Study on efficient pretreatment method for the analysis of fats and oils in forensic science (Fukuoka Pref. Police H.Q. Forensic Sci. Lab.) ○MOHRI, Hiroyuki; TSUJITA, Akira; NAGASAKA, Asami; MATSUMOTO, Mitsushi
- 1PB-071** Rice volatiles and their storage characteristics analysed by headspace trap gas chromatogram mass spectrometry (NFRI) ○TSUZUKI, Wakako; HAMAMATSU, Shioka; HACHINOHE, Mayumi; YAMADA, Sumiyu; HIRIGANE, Akira
- 1PB-072** Fabrication of Fe(III)-thiacalix[4]arene-p-tetrasulfonate complex-supported silica capillary and its application to analytical chemistry (Grad. Sch. Eng., Univ. of Fukui; Fac. Eng., Univ. of Fukui; Grad. Sch. Environmental Studies, Tohoku Univ.) ○TAKAHASHI, Toru; YONEMITSU, Ayuka; FUKUDA, Shigemitsu; SHOUJI, Shin-ya; IKI, Nobuhiko
- 1PB-075** Synthesis of Novel Dyes having Trifluoromethylacrylic Acid Acceptor and the Influence of their Geometrical Isomers on the Characteristics of Dye-sensitized Solar Cells (Fac. Sci. and Technol., Seikei Univ.) ○IWATA, Satoru; HATAKEYAMA, Mitsuki; TANAKA, Kiyoshi
- 1PB-076[#]** Organic synthesis of dye-sensitizers for dye-sensitized solar cell. (Grad. Sch. Sci., Osaka Pref. Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) ○HARLÉ, Jean-Baptiste; FUJIWARA, Hideki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki
- 1PB-077** Development of dye molecules containing 8-hydroxyquinoline as an anchor group for dye-sensitized solar cells (Osaka Pref. Univ. Graduate School of Science; Osaka Pref. Univ. Graduate School of Engineering) ○MIYAZAKI, Tetsu; MIZUNO, Kotaro; HARLÉ, Jean-Baptiste; FUJIWARA, Hideki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki
- 1PB-078** Dye-sensitized Solar Cells Based on Cyclometalated Ruthenium Complexes and Cobalt Redox electrolyte (ETRI, AIST) ○FUNAKI, Takashi; SAYAMA, Kazuhiro
- 1PB-079** Structural control of anodized TiO₂ nanotube films using hydrogen peroxide and their application to dye-sensitized solar cells (Tokyo City Univ. Graduate School of Engineering) ○UEHARA, Takahiro; TAKAHASHI, Masashi
- 1PB-080** Synthesis of colloidal Copper indium sulfide in water and its application to the Dye Sensitized Solar Cell (Fac. Eng., OIT) ○HIGASHIMOTO, Shinya; NAKASE, Takuto
- 1PB-081** Ionization effect in dye sensitized solar cells of porphyrin zinc complex monomers immobilized by electrolytically initiated polymerization. (Grad. Sch. Eng., KUT) ○ICHIHASHI, Yuuki; TAMAMURA, Siori; AZUMA, Masahiro; SUMI, Katuhro
- 1PB-082** Evaluation of photo voltaic performance a quantum dot solar cell -Correlation between surface treatment and device properties of PbS- (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TSUJII, Naoya; MASUO, Sadahoro
- 1PB-083** Mechanism of photocurrent enhancement from porphyrin monolayers on silver regularly structures: Clarification of effect of plasmonic optical electric fields. (Coll. Sci. Tech., Nihon Univ.) ○UCHIDA, Koji; SUGAWA, Kosuke; OTSUKI, Joe; AKIYAMA, Tsuyoshi; YAMADA, Sunao
- 1PB-084** A photocatalysis system of perylene derivative/cobalt phthalocyanine organic p-n bilayer for molecular hydrogen evolution (Grad. Sch. Sci. Tech., Hirosaki Univ.; Chem. Res. Lab., Tokyo Tech) ○OKUMURA, Masato; KIKUCHI, Yuko; NAGAI, Keiji; ABE, Toshiyuki
- 1PB-085** Fabrication of hetero-nanostructured films of titania nanosheets and reduced graphene oxide, and their photoinduced hydrophilic conversion properties (MANA, NIMS) ○KAMANAKA, Kei; SAKAI, Nobuyuki; FUNATSU, Asami; FUJIMOTO, Kenjiro; SASAKI, Takayoshi
- 1PB-086** Photoinduced electron-transfer reactions of some carbonic anhydride inhibitor containing tris(2,2'-bipyridine)ruthenium(II) analogues (Fac. Sci., Nara Women's Univ.) ○SUWA, Mikiko; TAKASHIMA, Hiroshi
- 1PB-087** MALDI-TOF MS study of the photo-oxidation of PCBM (ISC, AIST) ○YAMANE, Shogo; MIZUKADO, Junji; SUZUKI, Yasumasa; SAKURAI, Miho; CHEN, Liang; SUDA, Hiroyuki
- 1PB-088** Electrochemical reduction of carbon dioxide catalyzed by imide compounds. (Graduate School of Science and Technology) ○KAWATSU, Shuhei; NAGATA, Toshi
- 1PB-089** Effect of Pore Structure of Various Carbon Electrodes on Rate Performances for Electric Double Layer Capacitors (Fac. Env. Urban Eng., Kansai Univ.; KU-HRC) ○CHENG, Zairan; NAKAGAWA, Kiyoharu; ODA, Hirokazu
- 1PB-090** Systematic Study on Group 14 Elements and those Oxides as Anode Active Materials for High-Capacity Lithium-Ion Secondary Battery (Mie Prefecture Industrial Research Institute) ○MURAYAMA, Masaki; FUJIWARA, Motoyoshi; YAMAMOTO, Yoshitsugu
- 1PB-091** Preparation of Metal-Carbon Composites for Hydrogen Storage by Alcohol CVD Method and Effect of Grinding on Hydrogen Sorption and Desorption Behaviors (Coll. Sci. Tech., Nihon Univ.) ○KANEKO, Takehiro; WATANUKI, Yasuhiro; TOUYAMA, Takeshi; KOJIMA, Yoshiyuki; NISHIMIYA, Nobuyuki
- 1PB-092** Liquid-phase laser ablation of SiC (The Univ. of Tokushima Graduate School of Advanced Technology and Science) ○ASADA, Yusuke; HASHIMOTO, Shuichi
- 1PB-093** Chemical Process of solid N₂O₅ on ice surface at low temperature (Grad. Sch. Eng., Yokohama Natl. Univ.) ○GOTO, Yoshitaka; SEKI, Kanekazu

Thursday, March 26, PM

(15 : 00~16 : 30)

Energy

- 1PC-001** Photochemical CO₂ conversion using InGaN-Si tandem photo-electrode (Panasonic Corp.) ○SEKIMOTO, Takeyuki; SHINAGAWA, Shuichi; UETAKE, Yusuke; NODA, Keiichi; DEGUCHI, Masahiro; YOTSUHASHI, Satoshi; OHKAWA, Kazuhiro
- 1PC-002** Effect of supporting Co₃O₄ co-catalyst on GaN photoelectrodes (Panasonic Corp.) ○NODA, Keiichi; HASHIBA, Hiroshi; DEGUCHI, Masahiro; YOTSUHASHI, Satoshi
- 1PC-003** Fabrication of Ellipsoid TiO₂ Based Photoelectrodes Using Electrostatic Inkjet Printing (Sch. Eng., Tokai Univ.) ○SEKI, Akie; SHIMOYAMA, Yuki; KIKUCHI, Takahiro; OGAWA, Masashi; UMEZU, Shinjiro; TOMITA, Koji; KUNUGI, Yoshihito
- 1PC-004** Research & Development of Highly-Reliable Hydrocarbon-based Polymer Electrolyte Membrane (Toray Industries, Inc.) ○UMEDA, Hiroaki; ADACHI, Shinya; IZUHARA, Daisuke
- 1PC-005** Catalyst design for efficient hydrogen production (ETRI, AIST; CREST, JST) ○MANAKA, Yuichi; XU, Shaoan; SUNA, Yuki; ONISHI, Naoya; MUCKERMAN, James T.; FUJITA, Etsuko; KAWANAMI, Hajime; HIMEDA, Yuichiro
- 1PC-006** Applications of Environmental Loading Reduction Technologies Based on the Ionic Semiconductor and the Relation Technologies (Ion-Kagaku; Ltd.; TMCIT Department of General Education) ○KARINO, Hitoshi; ○TAMURA, Kenji
- 1PC-007** Tailored Rechargeable Battery Using Open-Shell Organic Molecule: Improvements of Capacities by Chemical Modifications of Trioxotriangulenes (Grad. Sch. Eng., Osaka Univ.; KANEKA CORPORATION; CREST, JST; Fac. Eng., Aichi Inst. of Tech.) ○NOBUKUNI, Hirofumi; ASAKURA, Noriaki; KEISHIMA, Miwa; TSUJI, Ryotaro; MORITA, Yasushi
- 1PC-008** High-pressure CO-free hydrogen production from formic acid (CCP, AIST; CREST, JST) ○MASAYUKI, Iguchi; MANAKA, Yuichi; HIMEDA, Yuichiro; KAWANAMI, Hajime
- 1PC-009** Efficient Hydrogen Production from Methanol-Water Solution

- Catalyzed by an Iridium Complex Bearing a Functional Ligand (Kyoto Univ. Graduate School of Human and Environmental Studies) ○AIKAWA, Takuya; KAWAHARA, Ryoko; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 1PC-010** Electrodeposition of MnO₂ intercalated with redox active cation and its electrochemical behavior. (Ube National College of Technology advance course of chemical and biological engineering) ○SAKAMOTO, Ryo; KUNIMITSU, Shinya; MATSUOKA, Yuka; ICHIMURA, Shuhei; SAEKI, Masahiro; TOMONO, Kazuaki
- 1PC-011** Dye-sensitized solar cells made from donor- π -acceptor type organic dyes and thin layers of nanocrystalline TiO₂ with hierarchical structure (Fac. Sci., Josai Univ.) ○TANAKA, Nobuhide; SAITO, Akane; TAKAHASHI, Katsuya; IDUTSU, Daiki; WAKAYAMA, Miho; MITSUKE, Koichiro; HASHIMOTO, Masashi
- 1PC-012** Salty-gel electrolytes: Development of new solid electrolytes by using melting behavior of molecular crystals (Grad. Sch. Sci., Shizuoka Univ.; PRESTO, JST; EcoTopia Sci. Inst., Nagoya Univ.) ○MORIYA, Makoto; NABENO, Shohei; HANAWA, Yutaro; SAKAMOTO, Wataru; YOGO, Toshinobu
- 1PC-013** Effect of minute particle addition on hydrogen generation reaction of iron and carbonated water and the reaction mechanism (Grad. Sch. Eng., Tokyo City Univ.) ○YAMAGUCHI, Takahiro; EBA, Hiromi
- 1PC-014** Development of Efficient Hydrogen Storage/Generation System by Ir Catalyst (ETRI, AIST) ○ONISHI, Naoya; MANAKA, Yuichi; XU, Shaoran; FUJITA, Etsuko; MUCKERMAN, James T.; HIMEDA, Yuichiro
- 1PC-015** Singlet fission in organic photovoltaics using non-polycyclic aromatic molecules (Grad. Sch. Sci., Eng., Yamagata Univ.; PRESTO, JST; MSL, Tokyo Tech) ○KAWATA, So; PU, Yongjing; SITO, Ayaka; FURUDATE, Junki; KIMURA, Takuya; HADA, Masaki; SASABE, Hisahiro; KIDO, Junji
- 1PC-016** High efficiency of the dye sensitized solar cells by development of new anchoring units (Fac. Sci., Josai Univ.) ○HASHIMOTO, Masashi; SEKIGUCHI, Shoya; WAKAYAMA, Miho; TANAKA, Nobuhide; MITSUKE, Koichiro
- 1PC-017** Synthesis and Specific Catalytic Activity of Atomicity Controlled Subnano Noble Metal Clusters (Chem. Res. Lab., Tokyo Tech; ICU) ○KITAZAWA, Hirokazu; IMAOKA, Takane; ALBRECHT, Ken; CHUN, Wang Jae; KOFUKU, Taku; YAMAMOTO, Kimihisa
- 1PC-018[#]** A mechanism of phase change and irreversible reaction in NaCoO₂ by insertion and extraction of sodium (Central Research Institute of Electric Power Industry) ○KOBAYASHI, Takeshi; OHNO, Yasutaka; YOSHIDA, Hiroyuki; SHONO, Kumi; YAMAMOTO, Tohru; KOBAYASHI, Yo; MIYASHIRO, Hajime

Resources/Environment/GSC(Green Sustainable Chemistry)

- 1PC-019** Heterologous Expression of a β -glucosidase from Hyperthermophilic archaea in *Trichoderma reesei* and its application to biomass saccharification. (Toray Industries, Inc. New Frontiers Research Laboratories; BRRC, AIST; Nagaoka Univ. of Tech.) ○HIRAMATSU, Shingo; NAGAO, Kei; KURIHARA, Hiroyuki; YAMADA, Katsushige; ISHIKAWA, Kazuhiko; SHIDA, Yousuke; OGASAWARA, Wataru
- 1PC-020** Highly efficient 2,3-butanediol fermentative production using *Zymobacter palmae* (Toray Industries, Inc. New Frontiers Research Laboratories; Tottori University Graduate School of Engineering) ○ISOBE, Kyohei; SAWAI, Kenji; MORITA, Izumi; YAMADA, Katsushige; YANASE, Hideshi
- 1PC-021** Production of 1,3-butadiene by catalytic dehydration of biomass-derived 2,3-butanediol (Toray Industries, Inc. New Frontiers Research Laboratories) ○TSUKAMOTO, Daijiro; SAKAMI, Satoshi; ITO, Masateru; YAMADA, Katsushige; YONEHARA, Tetsu
- 1PC-022** Production of useful chemicals by microwave assisted enzymatic reaction (Fac. CSSE, KIT) ○UCHIHIRO, Keita; IWAHASHI, Nobuyuki; SHIRAIISHI, Arata; ○OHUCHI, Shokichi
- 1PC-023** Separation of essential oils on microwave assisted extraction and distillation and its molecular specific effect (Grad. Sch. Life Sci. Sys. Eng., KIT) ○IWAHASHI, Nobuyuki; WATANABE, Akira; HRAGUCHI, Shunichi; ABE, Makiko; OHUCHI, Shokichi
- 1PC-024** Halide Anions Adsorption by Silica Supported Copper Complex (Toshiba Corporation Corporate Research & Development Center) ○IDE, Tomohito; SEKIGUCHI, Yumiko; IMADA, Toshihiro
- 1PC-025** Magnetic Properties of Fine Bamboo Charcoal Powder (Grad. Sch. Life Sci. Sys. Eng., KIT) ○FUJIO, Hiroshi; NISHIDA, Haruo
- 1PC-026** Analysis of high-order structure of polymeric material using ultrafast DSC (Toray Research Center, Inc) ○FURUSHIMA, Yoshitomo; ISHIKIRIYAMA, Kazuhiko
- 1PC-027** Synthesis of dicationic imidazolium ionic liquid having CO₂ adsorption ability under mild condition (TOYOTA BOSHOKU CORPORATION RESEARCH LABORATORIES) ○ISHIHARA-KURITA, Mai; LEE, Chi-han
- 1PC-028** Highly Practical Synthesis of Optically Active α -Amino Acid Derivatives with Zn(II)-Grignard Reagents (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○MIZUNO, Mai; YAMASHITA, Kenji; HATANNO, Manabu; ISHIHARA, Kazuaki
- 1PC-029** Boronic Acid-Nucleophilic Base Cooperative Catalysis for Dehydrogenative Condensation between Carboxylic Acids and Amines (Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○LU, Yanhui; ISHIHARA, Kazuaki
- 1PC-030** A Molecular Simulation Study on Polymer Separation Membrane (Toray Industries, Inc.) KAWAKAMI, Tomonori; KITABATA, Masahiro; ○SHIGEMOTO, Itamu
- 1PC-031[#]** Advanced Technologies on Seawater Desalination RO membrane (Toray Industries, Inc.) ○SATO, Kazuki; NISHIDA, Makoto; SASAKI, Takao; KIMURA, Masahiro
- 1PC-032** Metal-Free Tetraalkylammonium Methylcarbonate-Catalyzed Transesterification (Grad. Sch. Eng., Nagoya Univ.) ○YOSHIDA, Yurika; OGURA, Yoshihiro; KAMIYA, Sho; HATANNO, Manabu; ISHIHARA, Kazuaki
- 1PC-033** Practical Oxidative Dearomatization of Phenols with Sodium Hypochlorite Pentahydrate (Grad. Sch. Eng., Nagoya Univ.) ○SASAKURA, Niiha; UYANIK, Muhammet; ISHIHARA, Kazuaki; KUWAHATA, Mitsuyoshi; EJIMA, Yasukazu
- 1PC-034[#]** Facile synthesis of ZnO rhombic sheets composed of well-crystallized particles and their composite with Ag₂O for efficient photocatalysis (University of Jinan, China School of Material Science and Engineering) ○CHEN, Ling; YANG, Ping; DONG, Xiaobin
- 1PC-035[#]** Facile synthesis of anatase TiO₂ hollow microspheres and their enhanced photocatalysis (University of Jinan, China School of Material Science and Engineering) ○YANG, Ping; JIA, Changchao; CHEN, Ling
- 1PC-036** Atom-Economical Synthesis of Primary Amines from Alcohols and Aqueous Ammonia Catalyzed by Novel Water-Soluble NHC Complexes of Iridium (Kyoto Univ. Graduate School of Human and Environmental Studies) ○FURUKAWA, Shohichi; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 1PC-037** Dehydrogenative Oxidation of Alcohols by Using Cp* Ir Catalysts without Oxidant (KANTO CHEMICAL Co., Inc.) ○OSAWA, Yasuko; WATANABE, Masahito; TSUTSUMI, Kunihiko; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 1PC-038** Large scale synthesis of the ruthenium complex bearing NHC ligand for ROMP (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIMTEC corp.) ○KAMADA, Michiru; OSHIKI, Toshiyuki
- 1PC-039** Green Synthesis of HF-Base Complexes Based on Cation Exchange Reaction between KF and Solid-Supported Acids (Shibaura Inst. of Tech.) ○YAMADA, Masahide; KITAJIMA, Nobutaka; TAJIMA, Toshiaki
- 1PC-040[#]** Adhesion Behavior of Marine Mussel (*Mytilus edulis*) and Effects of Poly (lactic-acid) (Grad. Sch. Life Sci. Sys. Eng., KIT) ○FURUKAWA, Taichi; NISHIDA, Haruo
- 1PC-041** Synthesis of Macroporous Organic-Inorganic Polymer Hybrids from Used Tea Leaves Extract (Grad. Sch. Eng., Tokyo City Univ.) KOBAYASHI, Risa; SHINO, Masahiro; ○HAKOZAKI, Taiki; IWAMURA, Takeru
- 1PC-042** Chemical Specification of Arsenic/Antimony in Glass by XAFS and ICP-MS (Toshiba Corporation) ○MORIMOTO, Sayaka; OKI, Mitsuhiro; TAKENAKA, Miyuki
- 1PC-043** Investigation and applications on circulating carbon resources in wild grasses (Fac. Life Env. Sci, Pref. Univ. of Hiroshima) ○AOYAGI, Mitsuru; MAESONO, Kento; MORIKAWA, Kaoru; WATANABE, Nobuhito
- 1PC-044** Produced Water Treatment Technology Using Self-Assembled Nano-Materials (NRI, AIST) ○KOGISO, Masaki; AOYAGI, Masaru
- 1PC-045** Application of mixed metal multifunctional hybridized materials toward eco-friendly type antimicrobial and fungicidal agent(2) (Grad. Sch. Integrated Arts Sci., Kochi Univ.) ○YONEMURA, Toshiaki
- 1PC-046** Synthesis of Organic-Inorganic Polymer Hybrids from Cellulose Acetate and Alkoxysilane. (Grad. Sch. Eng., Tokyo City Univ.) AKIYAMA, Kenzou; HAKOZAKI, Taiki; ○SHINO, Masahiro; IWAMURA, Takeru
- 1PC-047** Hydrolysis of Fatty Acid Esters Utilizing Microwave Irradiation. (Grad. Sch. Eng., Tokyo City Univ.) YOKOYAMA, Takayuki; ○MOTOKI, Shunsaku; IWAMURA, Takeru
- 1PC-048** A disassemble technique and component material analysis of battery for electric vehicles toward CO₂ assessment in production phase. (Sendai Nat. Coll. of Tech.) ○AKIMOTO, Yuta; KOSHIKA, Kenichiro; NIKUNI, Tetsuya; DAIGO, Ichiro; KUZUHARA, Shunsuke
- 1PC-049** Crystal-like Bipyridine-bridged Periodic Mesoporous Organosilica: Innovative Solid Chelating Ligand for Metal Complex Catalyst (Toyota Central R&D Labs., Inc. Inagaki Senior Fellow Lab.) ○MAEGAWA, Yoshifumi; GOTO, Yasutomo; INAGAKI, Shinji
- 1PC-050** Development of Catalytic Hydrogenation of Esters employing DPBP-Ru Complex (Grad. Sch. Sci., Eng., Tokyo Tech) ○YUSA, Yukinori; AIKAWA, Kohsuke; MIKAMI, Koichi
- 1PC-051** Reactivity Control of Multimetallic Sub-nanocluster Catalysts for Oxidation Reactions (Chem. Res. Lab., Tokyo Tech) ○MASAKI, Takahashi; HIROMU, Koizumi; TAKANE, Imaoka; KIMIHISA, Yamamoto
- 1PC-052** Study on Transportation and Accumulation Mechanism of Gold in Metal-hyperaccumulating Fern, *Athyrium yokoscense*, by Synchrotron Radiation X-Ray Fluorescence Analysis (Grad. Sch. Eng., Tokyo Denki Univ.) ○TAMEZAWA, Fumitaka; HOKURA, Akiko; TERADA, Yasuko; KUMAGAI, Kazuhiro
- 1PC-053** A new synthesis of BDF by pressurized microwave method (Fac. Eng., Sojo Univ.) ○IKENAGA, Kazutoshi; INOUE, Takahiro; HAMADA, Ayaka

1PC-054 Photoelectrochemical Reduction of CO₂ in Methanol using TiO₂ Electrode (Fac. Eng., Mie Univ.) ○KANATA, Mizutani; HIDEYUKI, Katsumata; TOHRU, Suuzki; SATOSHI, Kaneco

New Materials

1PC-055 Effects of Solvents on the Radical Polymerization Initiated with *N*-Hexylpyridinium Tetrafluoroborate (Tohoku Seikatsu Bunka Univ. Polymer Chemistry Laboratory) ○KANNO, Shuichi

1PC-056 Synthesis of Boron Diiminate-Based Polymers with Oxidation-Triggered Emission Enhancement (Grad. Sch. Eng., Kyoto Univ.) ○HIROSE, Amane; YOSHII, Ryouyusuke; TANAKA, Kazuo; CHUJO, Yoshiki

1PC-057 Preparation and evaluation of organic-inorganic self-healing thin film containing silsesquioxanes by thiol-ene photo-crosslinking (Osaka Municipal Technical Research Institute) ○URANO, Fumito; MITAMURA, Koji; WATASE, Seiji; KOGA, Tomoyuki; HIGASHI, Nobuyuki; MATSUKAWA, Matsukawa

1PC-058 Magnetorheological effect and damping properties of bimodal magnetic elastomers (Fac. Eng., Niigata Univ.) ○NAGASHIMA, Kazushi; KANAUCHI, Shunta; KAWAI, Mika; MITSUMATA, Tetsu

1PC-059 Photochemical reaction controlled intermolecular forces of colloidal crystals (Grad. Sch. Sci. Tech., Gunma Univ.) ○AMANO, Yukiko; HORIUCHI, Hiroaki; OKUTSU, Tetsuo

1PC-060 High thermal conductive sheet using needle shaped fillers (Toray Industries, Inc.) ○SHIMBA, Yoichi

1PC-061 Enhanced photocatalytic performance of TiO₂ nanobelts based nanopaper (University of Jinan, P. R. China School of Chemistry and Chemical Engineering) ZHANG, Yan; ○YU, Jinghua

1PC-062 Catalytic Applications of Pt@CeO₂ Multicore@Shell Nanomaterials (Shandong University of Finance and Economics, China School of Applied English Studies) ○XUAN, Cheng

1PC-063 Non-iridescent structural color materials from polydopamine black particles (Grad. Sch. Eng., Chiba Univ.) ○KOHRI, Michinari; NANNICHI, Yuri; URADOKORO, Kanako; KAWAMURA, Ayaka; TANIGUCHI, Tatsuo; KISHIKAWA, Keiki

1PC-064 Living characteristic of radical polymerization mediated by Bis (dodecylsulfanylthiocarbonyl) disulfide for industrial application of RAFT polymerization (IMRAM, Tohoku Univ.; Ouchi Shinko Chemical Industrial Co., Ltd. Research & Development Center) ○OSAKI, Yu; OKAWA, Kyouji; ARITA, Toshihiko

1PC-065 Development of novel carbon fiber reinforced thermoplastics for injection molding (Toray Industries, Inc.) ○NAOKICHI, Imai; ATSUKI, Tsuchiya; MASATO, Honma

1PC-066 Cross-linking and De-cross-linking Behavior of Polyamide Gel Having a Hexaarylbisimidazole (Grad. Sch. Eng., Tokyo City Univ.) ○TAKASAKI, Masato; IWAMURA, Takeru

1PC-067 Hierarchical Mesoporous Silica Films for Wear-Resistant Antireflection Coatings (Toyota Central R&D Labs., Inc.) ○MIZOSHITA, Norihiro; ISHII, Masahiko; KATO, Naohiko; TANAKA, Hiromitsu

1PC-068 3D channel making in glass and polymer by using channel template (Toyama Inst. Health Department of Chemistry) ○TOMOHISA, Yamashita; KAZUYUKI, Yasukawa; TOMOKO, Kemmei; YUUKO, Hori; ERIKO, Nakayama; TATSUYA, Muramoto; HIDEKI, Matsui

1PC-069 Metal-Free Metallic Luster Forming Film (Toray Industries, Inc.) ○UTO, Takayuki; GOUDA, Wataru; SAKAMOTO, Jun

1PC-070 Aryne polymerization enabling straightforward synthesis of elusive poly(*ortho*-arylene)s (Grad. Sch. Pharm., The Univ. of Tokyo; RIKEN Element Research Laboratory) ○MIKAMI, Koichiro; MIZUKOSHI, Yoshihide; UCHIYAMA, Masanobu

1PC-071 Development of flexible substrate using organic-inorganic hybrid resin and ultra-thin glass and easy color filter preparation method using soluble cobalt phthalocyanine complex (Shibaura Inst. of Tech. graduate school applied chemistry) ○KAWADA, Hiroaki; OHISI, Tomoji

1PC-072 Electromagnetic Wave Shielding Effect of Plastic/Bamboo/Graphite Composites (Grad. Sch. Life Sci. Sys. Eng., KIT) ○MAEDA, Masayuki; NISHIDA, Haruo

Electro-Communications/Electronics

1PC-073 Characterization of Organic Single-crystal Transistors using Asymmetric Chrysenes as an Active Layer (Sch. Eng., Tokai Univ.; Ushio ChemiX Co. Ltd. Laboratory) ○ONOZUKA, Tomoya; MAEDA, Ayami; OTUKI, Hiroyuki; OKAMOTO, Kazuo; KUNUGI, Yoshihito

1PC-074 Characterization of Organic Transistors Based on Alkylsilylamine Treated SiO₂ Dielectric Layers. (Sch. Eng., Tokai Univ.) ○SASAKI, Takuya; TANIGUCHI, Keichi; ARASE, Hidekazu; OHSHITA, Joji; KUNUGI, Yoshihito

1PC-075 Preparation and Their Properties of Photocrosslinked Multifunctional Diphenylfluorene/Polysilanes Blends Using Visible Light (Grad. Sch. Eng., Osaka Pref. Univ.; Osaka Gas Chemicals) ○OKAMURA, Haruyuki; YAMASHITA, Mineyoshi; MINOKAMI, Keiko; MIYAUCHI, Shinsuke; MATSUMOTO, Akikazu

1PC-076 Surface Wettability Controllable Polyimides by UV light Irradiation (KNCT Department of Biochemistry and Applied Chemistry) ○TSUDA,

Yusuke

1PC-077 Copper Micro-Wiring Method Using Laser Irradiation And α -keto Acid Copper Complex In Atmosphere (Shibaura Inst. of Tech. Graduate School of Applied Chemistry) ○KIMURA, Ryutarou; OHISHI, Tomoji

1PC-078 Synthesis and evaluation of silver nanoparticles based on green materials and methods (KANKYO RESILIENCE CO.,LTD; Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○NAGASAWA, Hiroshi; GOTO, Akiho; SEIKE, Ryuta; AMEMIYA, Takashi; ITOH, Kiminori

1PC-079 Ag-Cu bimetallic nanoparticles paste with Ionic Migration- and Oxidation-Resistance (Osaka Municipal Technical Research Institute) ○YAMAMOTO, Mari; KAKIUCHI, Hiroshi; KOBAYASHI, Yasuyuki; SAITOH, Masashi; TAKAHASHI, Masanari; AOYAGI, Nobuyoshi; YOSHIDA, Yukio; OHNO, Toshinobu; NAKAMOTO, Masami

1PC-080 Photoluminescence and electroluminescence of lanthanide complex sensitized by silsesquioxane (Osaka Municipal Technical Research Institute Electronic Materials Research Division) ○YAMASHITA, Tsuyoki; WATASE, Seiji; MITAMURA, Koji; KOGA, Tomoyuki; HIGASHI, Nobuyuki; MATSUKAWA, Kimihiro

1PC-081 High Definition 3D Microfabrication Technology Using Photosensitive Organic-Inorganic Hybrid Materials. (Toray Industries, Inc.) ○TANINO, Takahiro; KOBAYASHI, Yasuhiro; YAMAMOTO, Youhei; HAMANO, Tsubasa; IGUCHI, Yuichiro

1PC-082 12 reasons why transistor materials should be liquid crystalline materials (Imaging Sci. & Eng. Lab., Tokyo Tech) ○IINO, Hiroaki; HANNA, Jun-ichi

1PC-083 Highly-Efficient Plastic Solar Cells Based on Donor/Acceptor Conjugated Polymer Blend Films (Grad. Sch. Eng., Kyoto Univ.; PRESTO, JST) ○BENTEN, Hiroaki; MORI, Daisuke; OKADA, Izumi; OHKITA, Hideo; ITO, Shinzaburo

1PC-084 Creation of the bent-shaped organic semiconductors for the practical application (Grad. Sch. Frontier Sci., The Univ. of Tokyo; PRESTO, JST) ○OKAMOTO, Toshihiro; MITSUI, Chikahiko; HASHIZUME, Daisuke; SATO, Hiroyasu; YAMANO, Akihito; TAKEYA, Jun

Medical Care/Health Care/Biotechnology

1PC-085 Molecularly imprinted point-of-care chips for the recognition of a chronic stress related hormone (Hitachi, Ltd. Yokohama Research Laboratory; Kobe University Graduate School of Engineering) ○TANIGUCHI, Shin-ichi; MURASE, Nobuo; TAKEUCHI, Toshifumi

1PC-086 Single Cell RNA Extraction by Bioinspired Silicification (Grad. Sch. Eng. Sci., Osaka Univ.; FIRST RCIN, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; Grad. Fac. Eng., Hokkaido Univ.) ○OKAMOTO, Yukihiko; OKAWA, Tomoki; ONOSHIMA, Daisuke; YUKAWA, Hiroshi; TOKESHI, Manabu; BABA, Yoshinobu

1PC-087 A high-sensitivity detection technology of the target nucleic acid on the DNA microarray with the capture probe including a photo-cross-linking oligonucleotide (Toray Industries, Inc.; Sch. Mat. Sci., JAIST) HIRANO, Taisuke; ○SAWADA, Shinjiro; NAKAMURA, Fumio; UEDA, Yoji; FUJIMOTO, Kenzo; HIGASA, Masashi

1PC-088 Determination of Unpleasant Odorous in Whale Oil, and Their Application for Cosmetics Materials (Yamaguchi Pref. Ind. Tech. Inst.; Yoshida Sogo Techno) ○IWATA, Arihiro; OGAWA, Tomoki; HOSOYA, Natsuki; TANAKA, Junya; FUJINAGA, Atsushi; YOSHIDA, Kouji; YOSHIDA, Harushige

1PC-089 Creation of antithrombotic dialysis membrane by using new hydrophilic Polymer (Toray Industries, Inc.) ○UENO, Yoshiyuki

1PC-090 Construction of an isothermal exponential amplification reaction system for highly sensitive nucleic acid test (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech; Abbott Japan Co., Ltd. Research and Development) ○KOMIYA, Ken; KOMORI, Makoto; HARADA, Erimi; NEMOTO, Takashi; YAMAMURA, Masayuki; YOSHIMURA, Toru

1PC-091 The effect of surface profile of medical device on protein adsorption (Toray Industries, Inc.) ○TAKAHASHI, Hiroshi; UENO, Yoshiyuki

1PC-092 The analysis of interaction between α -Cyclodextrin and water molecules using STD-NMR (Toray Research Center, Inc. Quality Assurance Department; Toray Research Center, Inc. Biological Science Department) ○KAWAGUCHI, Ken; KODAMA, Hisashi; NAKANO, Takayuki; KIMURA, Kazuo

1PC-093 The development and application of small-sized LED illumination devices for the biotransformation to the cyanobacterial asymmetric reduction of ketones (Coll. Sci. Tech., Nihon Univ.) ○ITO, Ken-ichi; AOYAMA, Tadashi; KAKIMOTO, Tsuyoshi; MURAKAMI, Masahiko; TAKIDO, Toshio; NAKAMURA, Kaoru

1PC-094 Real-time imaging of dynamic adsorption processes of protein on the gold electrode by electrochemical high-speed atomic force microscopy (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○TAKEDA, Kouta; UCHIHASHI, Takayuki; WATANABE, Hiroki; ISHIDA, Takuya; IGARASHI, Kiyohiko; NAKAMURA, Nobuhumi; OHNO, Hiroyuki

1PC-095 2-Naphthylmethoxymethyl (NAPOM) Group -A New Member of the BOM Protecting Group Family- (Kyushu Univ. Department of Chemistry, Faculty of Sciences) SATO, Takuya; OISHI, Tohru; ○TORIKAI, Kohei

1PC-096 A facile photoluminescence immunosensor based on SiO₂ coated CdTe QDs (University of Jinan, China School of Chemistry and Chemical

Engineering) ○YAN, Mei

- 1PC-097** Detection of Influenza virus by immunoliposome/electrochemiluminescence on two component SAMs modified Au electrode (Fac. Life Env. Sci, Pref. Univ. of Hiroshima) ○KATAYAMA, Yumi; MITOMA, Yoshiharu; HIFUMI, Emi; EGASHIRA, Naoyoshi
- 1PC-098** Development of the sensitive measurement technology of biomolecules based on counting functionalized magnetic beads (Grad. Sch. Biosci. Biotech., Tokyo Tech; JVC KENWOOD Corporation; Keio Univ. School of Medicine; Tokyo Med. Univ. Department of Nanoparticle Translational Research) ○SAKAMOTO, Satoshi; HASEGAWA, Yuichi; TSUJITA, Koji; ONO, Masayuki; KABE, Yasuaki; ITONAGA, Makoto; HANDA, Hiroshi
- 1PC-099** Construction of 3D-Engineered Tissue via Thermo-responsive Sol-Gel Transition (Fac. Textile Sci. Technol., Shinshu Univ.; Grad. Sch. Eng., Osaka Univ.) ○YOSHIDA, Hiroaki; AKASHI, Mitsuru
- 1PC-100** Dualzyme: a dually activatable allosteric ribozyme (Grad. Sch. Sci., The Univ. of Tokyo) ○KURIYAMA, Mituhiro; NUMAZAKI, Takumi; KONDO, Yoshinori; KATO, Yoshio; TANAKA, Yoshiyuki
- 1PC-101** Synthesis of polycyclic peptides by using a versatile lantipeptide synthetase ProcM (Grad. Sch. Sci., The Univ. of Tokyo) ○HASHIMOTO, Atsushi; GOTO, Yuki; SUGA, Hiroaki
- 1PC-102** Development of post-translational modification reactions and its application for in vitro synthesis of peptides with heterocyclic backbones (Grad. Sch. Sci., The Univ. of Tokyo; PRESTO, JST) ○KATO, Yasuharu; GOTO, Yuki; SUGA, Hiroaki
- 1PC-103** In vitro selection of peptides with alcohol dehydrogenase activity (Grad. Sch. Sci., The Univ. of Tokyo) ○YOKOSUKA, Ryota; GOTO, Yuki; SUGA, Hiroaki
- 1PC-104** Antifungal effect of the fatty acid salts for the fungal growing in a tatami (Shabondama Soap Co.,LTD.) ○KANYAMA, Takahide; KAWAHARA, Takayoshi; ERA, Mariko; MORITA, Hiroshi
- 1PC-105** Novel Universal Parameter to Define Surfactant Characteristics (Fac. Pharm. Sci., Chiba Institute of Science) ○YAMASHITA, Yuji; CHEN, Kuan Chun; SAKAMOTO, Kazutami
- 1PC-106** Thioester bond formation by ribosome (Grad. Sch. Sci., The Univ. of Tokyo) ○TAKATSUJI, Ryo; KATOH, Takayuki; SUGA, Hiroaki
- 1PC-107** Discovery of membrane protein IL28RA agonist peptide using living cells (Grad. Sch. Sci., The Univ. of Tokyo) ○ISHIDA, Satoshi; HIRATA, Yuichi; KATOH, Takayuki; KOHARA, Michinori; SUGA, Hiroaki

Friday, March 27, AM

(10 : 00~11 : 30)

Coordination Chemistry, Organometallic Chemistry

Si

- 2PA-001** Synthesis and some properties of pentamethylsilyl-substituted bis(bithienyl)benzothiadiazole (Kurashiki Univ. of Sci. and the Arts) ○FUJISHIMA, Kiyoshi; NAKA, Akinobu
- 2PA-002** Synthesis of cyclic organosilane compounds via Si-Si bond activation by Palladium catalyst (Grad. Sch. Eng. Sci., Kyushu Univ.) ○SHUNSUKE, Nagino; ATUSHI, Tahara; RYOUHEI, Haige; YUSUKE, Sunada; NAGASHIMA, Hideo

Ca

- 2PA-003** Photochemical Hydrogen Evolution from Alkali and Alkaline Earth Metal Complex with ortho-Phenylenediamine (Grad. Sch. Sci. Eng., Chuo Univ.) ○ISHII, Junki; WAKIZAKA, Masanori; MATSUMOTO, Takeshi; CHANG, Ho-chol

V

- 2PA-004** Reactivity of a Neutral Octanuclear Vanadium Oxo Cluster Complex towards Alcohols (Fac. Sci. Eng., Chuo Univ.) ○KODAMA, Shintaro; TAYA, Nobuto; ISHII, Youichi
- 2PA-005** Syntheses and reactivity of vanadium(V) complexes with a bis(hydroxyethyl)pyridine backbone as a VHPO model complex. (Aichi Inst. of Tech.) ○ARAKAWA, Daiki; KAJITA, Yuji
- 2PA-006** Synthesis and Structures of Group 5 Transition Metal Complexes with Bulky Monodentate Aryloxy Ligands. (Fac. Sci. Eng., Kinki Univ.) ○KANAZAWA, Shoya; MATSUO, Tsukasa

Cr

- 2PA-007** Studies on the properties and reactivity of MOF encapsulated polyoxometalate (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SAIKI, Ryo; NEWTON, Graham N; OSHIO, Hiroki
- 2PA-008[#]** Redox-Induced Selective Uptake of Cs⁺ by Porous Ionic Crystals based on Polyoxometalates (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○SEINO, Saori; KAWAHARA, Ryosuke; UCHIDA, Sayaka

Mn

- 2PA-009** Substituent Effects on Photocatalytic Reduction of CO₂ using Mn diimine complexes (Grad. Sch. Sci., Eng., Tokyo Tech; CREST/JST) ○KAMIYAMA, Hiroko; TAKEDA, Hiroyuki; OKAMOTO, Kohei; ISHITANI, Osamu
- 2PA-010** Synthesis and properties of transition complexes with L-histidine derivatives (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○OGAWA, Rina; SUZUKI, Takayoshi; SUNATSUK, Yukinari

Fe

- 2PA-011** Crystal structures and magnetic properties of transition metal complexes containing hydrogen bond network. (Grad. Sch. Eng. Sci., Kyushu Univ.) ○NAKANISHI, Takumi; OSAMU, Sato
- 2PA-012** Construction and arrangement of 1D hydrogen-bonded chains composed of 1',1''-biferrocenediboronic acid in the solid state (Grad. Sch. Mat. Sci., NAIST) ○YABUMOTO, Shiomi; TAHARA, Keishiro; AKITA, Tethuhiro; KIKUCHI, Jun-ichi
- 2PA-013** Synthesis, Structure and Spin Crossover Properties of Mononuclear and Dinuclear Double Helicate Iron(II) Complexes Based on 1,2,3-Triazole-Containing Tridentate Ligand Framework (Fac. Edu., Gifu Univ.; Grad. Sch. Edu., Gifu Univ.) TANAKA, Tomoko; OKADA, Shohei; MINOURA, Ryo; ○HAGIWARA, Hiroaki
- 2PA-014** Development of Bulky Carboxylate Ligands and Their Complexation Properties (Fac. Sci. Eng., Kinki Univ.) ○NISHII, Mamiko; HAMURA, Masahiro; GODA, Shun; MATSUO, Tsukasa
- 2PA-015** Syntheses and Properties of Non-precious Metal Complexes Possessing Redox-active Triamine Ligand (Fac. Sci. Eng., Chuo Univ.) ○CHANG, Ryongsok; WAKIZAKA, Masanori; MATSUMOTO, Takeshi; CHANG, Ho-chol
- 2PA-016** Synthesis of an oxygen-bridged dinuclear complex composed of Ferroporphyrin and Fe-phthalocyanine inside of a fourfold rotaxane (Grad. Sch. Sci., Nagoya Univ.; IMCE, Kyushu Univ.) ○MIHARA, Nozomi; YAMADA, Yasuyuki; IGAWA, Kazunobu; KASHIWAGI, Ken; TOMOOKA, Katsuhiko; TANAKA, Kentaro
- 2PA-017** Syntheses and Photo-Reduction of *meso*-Substituted Iron Porphyrin Complexes (IMS; SOKENDAI; JST ACT-C) ○OKABE, Yuki; FUKATSU, Arisa; KONDO, Mio; MASAOKA, Shigeyuki
- 2PA-018[#]** Synthesis of Dithiolato-Bridged (CO)_x(CN)_yFe-Ni Complexes as Structural Models for the Active Site of [NiFe] Hydrogenase (RCMS, Nagoya Univ.) ○LI, Zilong; MATSUMOTO, Tsuyoshi; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 2PA-019[#]** Synthesis of iron porphyrin dimer catalysts bearing local proton mediators for efficient electrocatalytic CO₂ reduction (Inst. Sci. Tech. Res., Chubu Univ.) ○NAGARAJU, Perumandla; ZAHRAN, Zaki; MOHAMED, Eman; NARUTA, Yoshinori
- 2PA-020** Synthesis of new iron complex-ligands toward control of electronic structures (IMCE, Kyushu Univ.) ○NISHINO, Satoshi; KANG, Soonchul; KANEGAWA, Shinji; SATO, Osamu
- 2PA-021** Synthesis and Properties of Chlorin and Bacteriochlorin with metal ion (Grad. Sch. Fac. Sci. Eng., Shimane Univ.) ○IKEUE, Takahisa; MURAI, Nami; KUWAHARA, Takamitsu; YAMADA, Yuya; IKEZAKI, Akira; NAKAMURA, Mikio; HANDA, Makoto
- 2PA-022** Research for the relationship between structure and spin crossover phenomena in new type of iron(III) dithiocarbamate complex (Sch. Sci., Tohoku Univ.) ○YAMABAYASHI, Tsutomu; KAGESAWA, Koichi; BREDELLOVE, Brian K.; YAMASHITA, Masahiro
- 2PA-023** The structure and SCO property of iron(III) complex with a tridentate Schiff-base ligands (Fac. Sci. Eng., Kinki Univ.) ○YAMAO, Norifumi; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA, Takayoshi
- 2PA-024** Theoretical Study on Transmission Behavior of Electrical Signal through One-Dimensional Biferrocenium Network. (Kogakuin Univ. Division of Liberal Arts) ○TOKUNAGA, Ken; YAMAGUCHI, Ryota; MATSUDA, Takahiro
- 2PA-025** Intramolecular Oxygen Transfer From the Fe(IV)-oxo Porphyrin Formed in the Cavity of Methylated Cyclodextrins (Grad. Sch. Eng., Doshisha Univ.) ○KUROSAWA, Shun; KITAGISHI, Hiroaki; KANO, Koji
- 2PA-026** Construction of new disilaferracycle complexes and their application to catalytic hydrogenation of alkenes (Grad. Sch. Eng. Sci., Kyushu Univ.) ○SAWANNO, Mina; SUNADA, Yusuke; NODA, Daisuke; NAGASHIMA, Hideo
- 2PA-027** Synthesis of Diiron Complexes Containing N,C,S-Tridentate Ligands by Using Thiophene Derivatives (Grad. Sch. Sci., Osaka City Univ.) ○MATSUNAGA, Takumi; HIROTSU, Masakazu; KINOSHITA, Isamu
- 2PA-028** Reduction of Organoiron(II) Complexes Bearing the Bulky Rind Groups (Fac. Sci. Eng., Kinki Univ.; Fac. Sci. Eng., Kinki Univ.) ○GODA, Shun; OKAZAWA, Atsushi; KOJIMA, Norimichi; HASHIZUME, Daisuke; KOBAYASHI, Yoshio; TANAKA, Kazuyoshi; FUENO, Hiroyuki; MATSUO, Tsukasa

Co

- 2PA-029** Synthesis of cobalt dithiolene complex having dihalobenzenedithiolate ligand (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○KONDO, Masataka; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro
- 2PA-030** Theoretical study of a mechanism of dinitrogen conversion catalyzed by a Co complex (Fac. Eng., Kyushu Univ.) ○MATSUO, Yuki; TANAKA, Hiromasa; IMAYOSHI, Ryuji; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki; YOSHIZAWA, Kazunari
- 2PA-031** Enantiomer separation using HPLC column packed with chiral double-pillared MOF (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○TERAUCHI, Tomoya; TANAKA, Koichi
- 2PA-032[#]** Synthesis and Physical Properties of a Cyanide Bridged Fe-Co Chain Complex (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○WEI, Rong-jia; IJIMA, Fumichika; SHIGA, Takuya; NEWTON, Graham; OSHIO, Hiroki

Ni

- 2PA-033** Axial ligand dependent electronic structure of two-electron oxidized Ni(salen) complexes (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○KAWAI, Minoru; SHIMAZAKI, Yuichi
- 2PA-034** Syntheses and Catalytic Oxidation Reactivities of Nickel and Cobalt Complexes with Tris(oxazolonyl)borate Ligand (Fac. Eng., Kanagawa Univ.) ○NAKAZAWA, Jun; OHARA, Moe; YOSHINO, Takeshi; NISHI, Manami; HIKICHI, Shiro
- 2PA-035** Thermal behaviour of Ni(II) salphen complex containing functional groups in side chain (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○TAKAHASHI, Tomotaka; SHIODA, Ayumi; ICHIMURA, Shuhei; SAEKI, Masahiro; TAMAKI, Yoshinori; MIYAMURA, Kazuo
- 2PA-036** Structures and properties of the redox-active metallomesogens based on bisbenzenedithiolato metal complexes (Grad. Sch. Sci. Eng., Chuo Univ.) ○MURATA, Junnosuke; WAKIZAKA, Masanori; MATSUMOTO, Takeshi; CHANG, Ho-chol
- 2PA-037** Synthesis and Carrier Transport Property of Coordination Polymers with Nickel-Dithiobenzoate Complex (Fac. Sci. Eng., Kinki Univ.; PRESTO, JST) ○TANISHIMA, Kouki; NAKAHASHI, Yuki; TAJI, Yusuke; KOUNO, Yuuki; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-038** Thermal analysis of Ni(II)salen derivatives with alkoxy chain in ortho position (Fac. Sci., Tokyo Univ. of Sci.) ○TANIGUCHI, Kohei; YOSHIDA, Takashi; TAMAKI, Yoshinori; MIYAMURA, Kazuo
- 2PA-039** Investigation of intermolecular interaction of dithiocarbamate complexes derived from amino acid esters with alfa substituents (Fac. Eng., OIT) NOMURA, Ryoki; ○BUITHANH, Thien; MITSUKURI, Hitoshi; MAN, Yusuke; KAWAMOTO, Kazuki; OHTAKA, Atsushi; SHIMOMURA, Osamu
- 2PA-040** Synthesis and Properties of a New Crown-Ether Like Nickel(II) Macrocyclic Dinuclear Metallohost (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○KOBAYASHI, Seiya; SAKATA, Yoko; AKINE, Shigehisa
- 2PA-041** Synthesis and Hydrogen Evolving activity from Water of Nickel(II) Pyridine Thiolato Complexes with Origopeptide Ligands (Dept. Chem. Kyushu Univ.; WPI-I2CNER, Kyushu Univ.; CMS, Kyusyu Univ.) ○MIYAZAKI, Kosuke; KITAMOTO, Kyoji; YAMAUCHI, Kosei; SAKAI, Ken
- 2PA-042** Development of Monovalent Nickel Complexes bearing Bulky NHC ligand (IPr, IMes) for the Catalytic Reactions (Fac. Sci., Fukuoka Univ.) ○TAZAKI, Saeko; MATSUBARA, Kouki; KOGA, Yuji
- 2PA-043** Synthesis, Structures, and Reactivity of Dinuclear Ni^{II}Rh^I and Ni^{II}Ir^I Complexes with a P₂S₂ Tetradentate Ligand (Fac. Sci., Nara Women's Univ.) ○WATANABE, Natsuki; SANNO, Mikie; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki

Cu

- 2PA-044[#]** Construct of photoactive framework with open metal sites (Sch. Physical Sci., SOKENDAI; IMS; JST ACT-C) ○CHINAPANG, Pondchanok; ITOH, Takahiro; KONDO, Mio; MASAOKA, Shigeyuki
- 2PA-045** Synthesis and Reactivity of Multinuclear Cu(I) Hydride Complexes Supported by Tetrakisphosphine Ligands (Fac. Sci., Nara Women's Univ.) ○HACHIKEN, Kanae; MAKINO, Junko; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 2PA-046** Synthesis of novel homochiral MOF using 1,1'-binaphthyl-derived octacarboxylate bridging ligand (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○ANAMI, Taku; TANAKA, Koichi
- 2PA-047** Building Block Approach in the Design of Coordination Polymers Based on Metal-Pyrazinediol Complexes (Fac. Sci., Fukuoka Univ.) ○MAO, Ogawa; ISHIKAWA, Ryuta; KAWATA, Satoshi
- 2PA-048** Synthesis of Amphotericin B-Metal Complexes for Functionalization of Membrane Channel (Fac. Sci., Kyushu Univ.) ○KAWAHARA, Koki; TOGO, Tatsuo
- 2PA-049** Oxygen reduction by laccase with new 1,10-phenanthroline derivative Cu(II) complex (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○KUROSAWA, Yu; AKITSU, Takashiro
- 2PA-050** Preparation and Physical Properties of Solvatochromic Copper

Complexes Bearing Ether Sidearms (Grad. Sch. Sci., Kobe Univ.) ○LAN, Xue; HOSOKAWA, Hitoshi; MOCHIDA, Tomoyuki

- 2PA-051** Synthesis of Nano Particles of a Copper Coordination Polymer with Octamethylene Dithiocarbamate and Application to Organic Photovoltaic (Kinki Univ.; PRESTO, JST) ○NAKATANI, Kenji; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-052** High-pressure powder X-ray structural analyses of pyridinethiolato Cu(I) and Ag(I) hexanuclear complexes (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○KUBO, Masahiro; NISHIYAMA, Manami; OZAWA, Yoshiki; AKAHAMA, Yuichi; TORIUMI, Koshiro
- 2PA-053** Development of Thin Film Solar Cells of d-π Complexes using HATNA Derivatives (Fac. Sci. Eng., Kinki Univ.; PRESTO, JST) ○KONO, Yuki; HUIJINO, Hiroki; SAKATA, Ryoma; HIMOTO, Kento; NAKATANI, Kenji; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-054** Synthesis and hydrogen-evolving activities of bis(1,3,5-triketonato) dicopper(II) complexes (Dept. Chem. Kyushu Univ.; WPI-I2CNER, Kyushu Univ.; CMS, Kyushu Univ.) ○NAKASHIMA, Shintaro; YAMAUCHI, Kosei; SAKAI, Ken
- 2PA-055** Synthesis and characterization of Cu(I) complexes with bisphosphine ligands containing dinaphthylphosphino groups (Grad. Sch. Sci., Josai Univ.; RIKEN) ○KIKUCHI, Ayumi; OSAWA, Masahisa; HASHIMOTO, Masashi
- 2PA-056** CO₂ gas adsorption using racemic and homochiral MOF crystals (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○MORIOKA, Takahiko; TANAKA, Koichi
- 2PA-057** Synthesis and Luminescent Properties of Mixed-Ligand Coordination Polymers Containing Iodo Copper(I) Dimeric Units with Bis(pyridyl) Bridging Ligands (Fac. Sci., Univ. of Toyama; Univ. of Toyama Graduate School of Science and Engineering) ○SUGIMOTO, Satoshi; OGAWA, Naozumi; YAMASHITA, Shouma; OHTSU, Hideki; NOZAKI, Koichi; TSUGE, Kiyoshi
- 2PA-058** Optical Resolutions of Various Amino Acids by Using (R)-N-(2-Pyridylmethyl)pipecolato Complexes (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○FUKUSHIMA, Takeo; YAJIMA, Tatsuo; SHIRAIWA, Tadasi
- 2PA-059** Crystal structure of copper octacyanomolybdate bimetal assembly without organic ligand (Grad. Sch. Sci., The Univ. of Tokyo) ○UMETA, Yoshikazu; NAKABAYASHI, Koji; HIROKO, Tokoro; OHKOSHI, Shin-ichi
- 2PA-060** Substituent Effect of Multinuclear Copper Complexes in the Formation Process of Coordination Polymer Supported by Tripodal Triheteroaryl Ligand System (Grad. Sch. Sci., Osaka City Univ.) ○KAKUTAKA, Kairi; NISHIKAWA, Keisuke; MORIMOTO, Yoshiki; TACHI, Yoshimitsu
- 2PA-061** Function dependence of TD-DFT calculation for simulated electronic spectra of chiral Schiff base Cu(II) complexes having amino-acid moieties (Fac. Sci., Tokyo Univ. of Sci.) TAKAKURA, Kazuya; ○AKITSU, Takashiro
- 2PA-062** Synthesis and Properties of copper complexes with bis(6-methylpyridin-2-yl)methane (Grad. Sch. Sci., Josai Univ.) ○MORI, Hidefumi; TANAKA, Nobuhide; MITSUKE, Koichiro; HASHIMOTO, Masashi
- 2PA-063** Synthesis and structure of copper complex with tridentate mesoionic carbene (Fac. Sci., Fukuoka Univ.) ○TASHIMA, Yuta; IWASAKI, Haruka
- 2PA-064** Synthesis of transition Metal(II) complexes of 2,6-bis(3-phenyl-1,3-propanedione)naphthalene (Fac. of Edu., Tokyo Gakugei Univ.) YOSHIIHARA, Nobutoshi; ○HAYASHIDA, Ryunosuke; ZHULAN, Qimuge
- 2PA-065** synthesis of various metal complex of Bis(3-phenyl-1,3-propanedione)benzene (Fac. of Edu., Tokyo Gakugei Univ.) YOSHIIHARA, Nobutoshi; ○ZHULAN, Qimuge

Zn

- 2PA-066** Fast transport of bulky organic cations inside coordination polymers (Grad. Sch. Eng., Kyoto Univ.) ○OGIWARA, Naoki; HORIKE, Satoshi; KITAGAWA, Susumu
- 2PA-067** Investigation of intermolecular interaction of dithiocarbamate complexes derived from aminoalcohols (Fac. Eng., OIT) NOMURA, Ryoki; ○BUITHANH, Thien; KAWAMOTO, Kazuki; MAN, Yusuke; OHTAKA, Atsushi; SHIMOMURA, Osamu
- 2PA-068** Dynamic helicity control of helical tetranuclear complexes by coordination of chiral carboxylate ions (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○TAKATSUKI, Yuri; SAKATA, Yoko; NABESHIMA, Tatsuya; AKINE, Shigehisa
- 2PA-069** Chemical fixation of CO₂ using ammonium salt modified IRMOF-3 (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○OTSUKA, Shinya; TANAKA, Koichi
- 2PA-070** Interaction of a cyclic zinc porphyrin trimer and pyridine derivatives (Fac. Sci., Tokyo Univ. of Sci.) ○MURAOKA, Kanemichi; OHKODA, Yohei; SATAKE, Akihara

Zr

- 2PA-071** Synthesis and selective gas adsorption properties of formate-bridged

Zr and Hf coordination polymers (Grad. Sch. Fac. Sci. Eng., Shimane Univ.) ○FUJITA, Ryohei; KATAOKA, Yusuke; MURATA, Hidenobu; YAN, Yinnan; TANAKA, Hidekazu; KAWAMOTO, Tatsuya; HANDA, Makoto

- 2PA-072** Synthesis and structure of five-membered allene complexes from group 4 metals and enyne compounds. (Fac. Sci., Sophia Univ.) ○KURITA, Rikako; MASUYAMA, Yoshiro; SUZUKI, Noriyuki
- 2PA-073** Synthesis of stable five-membered allene complexes that contain a sulfur atom and a group 4 metal. (Fac. Sci., Sophia Univ.) ○KAWAMURA, Akiko; ASADA, Takumi; MASUYAMA, Yoshiro; SUZUKI, Noriyuki

Mo

- 2PA-074** Reactions of molybdenum silyl trihydrido complex bearing P-P-Si-P ligand with terminal alkynes (Grad. Fac. Eng., Yokohama Natl. Univ.) ○MINATO, Makoto; WATANABE, Kyouzuke
- 2PA-075** Silicon-silicon cross-coupling reactions between organohydrosilanes and organochlorosilanes catalyzed by molybdenum complexes containing polydentate phosphinoalkyl-silyl ligands (Grad. Sch. Eng., Yokohama Natl. Univ.) ○ASAEDA, Takahiro; MINATO, Makoto

Ru

- 2PA-076** Unsymmetric Structure of dinitrogen bridged dimer of triruthenium complex (Sch. Advanced Sci. Eng., Waseda Univ.) ○YAMAGUCHI, Tadashi; UMEMOTO, Aki; IWASAKI, Genki
- 2PA-077** Syntheses of new pyrazine-bridged macrocyclic tetranuclear ruthenium complexes. (Urban Environmental Sci., Tokyo Metropolitan Univ.) ○AOSHIMA, Kento; SATO, Kiyoshi; YAMAGUCHI, Motowo
- 2PA-078** Structures and Redox Behavior of Ruthenium Complexes Containing Azide and/or Imine (Fac. Sci., Sophia Univ.) ○SUMOGE, Yuka; MATSUYA, Kazuhiro; NAGAO, Hirotsuka; NANBU, Shinkou
- 2PA-079** Synthesis of Assembled Metallohosts by Using Axial Coordination of a Ruthenium(II) Saloph Complex and Their Cation Recognition (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○NAKAMURA, Yuri; SAKATA, Yoko; AKINE, Shigehisa
- 2PA-080** Synthesis and Photophysical Properties of Polypyridyl Ruthenium (II) Complexes Having Stable Radical Substituents (Fac. Sci., Osaka City Univ.) ○KOBAYASHI, Nozomi; ITO, Akitaka; TEKI, Yoshio
- 2PA-081** The synthesis and physicochemical characteristics of new ruthenium complexes having a phenyl bipyridine ligand for dye sensitized solar cells (Coll. Sci. Tech., Nihon Univ.; NIMS Photovoltaic Materials Unit) ○KANEKO, Ryujii; OTSUKI, Joe; TAKAMORI, Yuya; SUGAWA, Kosuke; ISLAM, Ashraful
- 2PA-082** Syntheses of new cyclic multinuclear ruthenium complexes by self-assembly (Urban Environmental Sci., Tokyo Metropolitan Univ.) ○SHIBATA, Shota; MORIYAMA, Ryouta; SATO, Kiyoshi; YAMAGUCHI, Motowo
- 2PA-083** Pre-synthetic Modification for Functional Metallosupramolecular Compounds (Grad. Sch. Eng., Kyushu Univ.) ○SHIMIZU, Haruka; ABE, Masaaki; ONO, Toshikazu; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 2PA-084** Syntheses and properties of novel multinuclear complexes containing platinum and ruthenium atoms (Fac. Eng., Gifu Univ.) ○SAITO, Naoki; UEMURA, Kazuhiro; UESUGI, Naoyuki; MATSUYAMA, Akina; EBIHARA, Masahiro
- 2PA-085** Deprotonation Behavior of Bis(2-pyridylcarbonyl)amine Moiety Coordinated to Ruthenium Center (Grad. Sch. of Sci. Technol., Sophia Univ.) ○SHIMURA, Naoto; NAGAO, Hirotsuka
- 2PA-086** Photochemical water oxidation catalyzed by an amphiphilic ruthenium complex in vesicles (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○SATO, Youichi; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 2PA-087** Photoanation Reaction of Heteroleptic Ru(II) Complex with acetylacetonato and tri-2-pyridylamine (Sch. Sci. Eng., Meiji Univ.) ○FUJII, Tsuyoshi; TOYAMA, Mari; NAGAO, Noriharu
- 2PA-088** Efficient photocatalytic CO₂ reduction using a Ru(II) complex with a 2-pyridinecarboxylic acid ligand as a photosensitizer (Grad. Sch. Sci., Eng., Tokyo Tech) ○TOKUDA, Kazuma; UEDA, Yutaro; TAKEDA, Hiroyuki; ISHITANI, Osamu
- 2PA-089** Ligand exchange reaction of (S_{Ru}, R_C)-[CpRu(Propfos)PPh₃]PF₆ (Grad. Sch. Industrial Tech., Nihon Univ.) ○ITO, Seera; TSUNO, Takashi; BRUNNER, Henri
- 2PA-090** IR spectra change of N3 dye of DSSC on the titanium oxide adsorption condition by heating and light irradiation (NRI, AIST) ○SHIINA, Yoshimi; INOUE, Kyoko; MIYAZAWA, Akira; SHIMOI, Yukihiro; KAWANISHI, Yuji
- 2PA-091** Reactions of Nitrosylruthenium Having Pyridyl-containing Compounds with Acrylonitrile (Fac. Sci., Sophia Univ.) ○OHNO, Haruna; NAGAO, Hirotsuka
- 2PA-092** Crystal Structure and Reaction of Bis-heteroleptic Ru(II) Complex with *N*-Methyl-(di-2-pyridyl)amine and 2,2'-Bipyridine (Sch. Sci. Eng., Meiji Univ.) ○KASAI, Naoto; TOYAMA, Mari; NAGAO, Noriharu
- 2PA-093** Isomerization Reaction of Mononuclear Ru(II)-dmsO Complex with an Unsymmetrical Bis-Bidentate Ligand (Sch. Sci. Eng., Meiji Univ.) ○TAKEUCHI, Taichi; MAKISE, Takashi; TOYAMA, Mari; NAGAO,

Noriharu

- 2PA-094** Syntheses and Structures of Bis-heteroleptic Ru(II) Complexes with ddppd (ddppd = *N,N'*-dimethyl-*N,N'*-di-(2-pyridyl)pyridine-2,6-diamine) Derived from Mono(ddppd)Ru(III) Complexes (Sch. Sci. Eng., Meiji Univ.) ○MURANAKA, Yu; OKUDA, Jun-ya; TOYAMA, Mari; NAGAO, Noriharu
- 2PA-095** Synthesis, Structures and Properties of Ruthenium(II) Complexes Containing 1*H*-Imidazole-4-carbaldehyde-2-pyridylhydrazone and its Derivatives (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○NAKATANI, Yuichi; SUZUKI, Takayoshi; SUNATSUKI, Yukinari; MORI, Asami; AKIYAMA, Saeko
- 2PA-096** Reactivity-coordination mode relationships in ruthenium complexes containing a flexible supporting ligand (Fac. Symb. Sys. Sci., Fukushima Univ.; Inst. Env. Radioactivity, Fukushima Univ.) TOKOYODA, Rie; ABE, Ryosuke; TAKAHASHI, Kasumi; TAKASE, Tsugiko; ○OYAMA, Dai
- 2PA-097** Synthesis and Redox Property of a Mononuclear Ruthenium-Bis(terpyridyl)anthracene Complex Having a Vacant Terpyridine (Coll. Sci., Rikkyo Univ.) ○MISHIMA, Kanae; WADA, Tohru
- 2PA-098** Synthesis of Oxido-bridged Dinuclear Ruthenium Complexes and Water Oxidation Reactions (Fac. Sci., Sophia Univ.) ○SUZUKI, Yutaka; NAGAO, Hirotsuka
- 2PA-099** Highly efficient catalytic hydrogenation of multi-substituted alkenes catalyzed by disilaruthenacycle complexes bearing isocyanide ligands (Grad. Sch. Eng. Sci., Kyushu Univ.) ○YAMAMOTO, Taiji; OGUSHI, Hajime; SUNADA, Yusuke; NAGASHIMA, Hideo
- 2PA-100** Study on the synthesis and oxidation state of trinuclear ruthenocene complex II (Fac. Sci., Hiroshima Univ.) ○KOGA, Kazuki; YASUHARA, Hiroki; NAKASHIMA, Satoru
- 2PA-101** DFT calculation about dynamic behavior of hydrogen atoms on Ru complex bearing disilyl species (Grad. Sch. Eng. Sci., Kyushu Univ.) ○MIYAMOTO, Konoka; TAHARA, Atsushi; TANAKA, Hiromasa; SUNADA, Yusuke; NAGASHIMA, Hideo; YOSHIZAWA, Kazunari
- 2PA-102** Ruthenium dicarbonyl complex having disilametallacycle framework which shows high catalytic activity toward reduction of various carbonyl compounds (Grad. Sch. Eng. Sci., Kyushu Univ.) ○TAKESHITA, Takashi; INOUE, Ryoko; SUNADA, Yusuke; NAGASHIMA, Hideo
- 2PA-103** Effects of Pincer-type Ligands on Preparations of Alkyl Carbonato Ruthenium Complexes (Grad. Sch. Eng., Nagasaki Univ.) ○SETO, Yudai; NAKAMURA, Takuo; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke

Rh

- 2PA-104** Synthesis and electronic structure of dirhodium complexes with benzamidinato as bridging ligands (Fac. Sci. Eng., Shimane Univ.) ○MIKAMI, Saki; KATAOKA, Yusuke; KAWAMOTO, Tatsuya; IKEUE, Takahisa; HANDA, Makoto
- 2PA-105** High efficient photochemical water reaction by anchor-shape dinuclear rhodium complexes. (Fac. Sci. Eng., Shimane Univ.) ○YANO, Natsumi; KATAOKA, Yusuke; KAWAMOTO, Tatsuya; HANDA, Makoto
- 2PA-106** Photochemical water reduction from water by paddlewheel-type dirhodium complexes with electron withdrawing and/or -donating substituents (Grad. Sch. Fac. Sci. Eng., Shimane Univ.) ○KATAOKA, Yusuke; YANO, Natsumi; KAWAMOTO, Tatsuya; HANDA, Makoto
- 2PA-107** Synthesis and properties of rhodium(III)porphyrin complexes bearing the ethynyl group at the axial position. (Sch. Sci., Kitasato Univ.) ○MIZUTANI, Kento; YUGE, Hidetaka
- 2PA-108[#]** Rh(I)-Containing Porous Metal Complexes as Heterogeneous Catalysts for the Polymerization of Phenylacetylene (Grad. Sch. Eng., Kyoto Univ.) ○HOSHIKAWA-HALBERT, Jason; KOBAYASHI, Yuichihiro; UEMURA, Takashi; KITAGAWA, Susumu
- 2PA-109** Alkyl-to-Aryl 1,4-Migration of a Rh(III) Center (Fac. Sci. Eng., Chuo Univ.) FUKUDA, Emi; TAKANO, Koichi; IKEDA, Yousuke; KODAMA, Shintaro; ○ISHII, Youichi

Pd

- 2PA-110** Catalytic Ability of Sugar-Incorporated C-C-N Pincer Pd Complexes toward the C-C Coupling Reactions in Water (Grad. Sch. Sci., Osaka City Univ.) ○IMANAKA, Yosuke; HASHIMOTO, Hideki; KINOSHITA, Isamu; NISHIOKA, Takanori

Ag

- 2PA-111** Luminescent chromic behaviors of silver(I) complexes bridged by thiophenolates with several functional groups (Fac. Education Human Sci., Univ. of Yamanashi) ○TSUKUDA, Toshiaki; KOBAYASHI, Mizuki
- 2PA-112** Preparation of Carbodiphosphorane Complexes stabilized by Electron-Withdrawing Groups or Chelates (Grad. Sch. Sci., Hiroshima Univ.) ○SUGIYAMA, Takashi; HAGIMORI, Kouichi; KUBO, Kazuyuki; MIZUTA, Tsutomu

Sn

- 2PA-113** Synthesis of an N-Heterocyclic Stannylenes Containing a Seven-Membered Chelate and the Reactivity toward Carbonyl Compounds (Fac.

Edu. Culture, Univ. of Miyazaki; Gunma University Graduate School of Science and Technology; Fac. Sci., Gakushuin Univ.) ○ARII, Hidekazu; NAKABAYASHI, Kenichi; KAWASHIMA, Takayuki; MOCHIDA, Kunio

Ln

2PA-114 Effect of water molecules on luminescence of water-soluble lanthanide complexes (Grad. Sch. Eng., Kanagawa Univ.) ○HASHIMOTO, Sena; OKAMOTO, Hiroki; YABUSHITA, Atsushi; KOMORI-ORISAKU, Keiko; IWAKURA, Izumi

Eu

2PA-115 Preparation and circularly polarized luminescence of chiral europium complexes containing binding sites for metal ions (Grad. Sch. Mat. Sci., NAIST) ○NAKAGAWA, Takafumi; YUASA, Junpei; KAWAI, Tsuyoshi

2PA-116 Photoluminescence Characteristics of Organic-Inorganic Composite Materials Consisting of Lanthanide Complexes with Photo-sensitizing Ligands embedded into Fibrous Clay (Hakodate National College of Technology) YAMAGUCHI, Masaki; KAIZAKI, Sumio; ○SHIROTANI, Dai

2PA-117 Luminescence Response of Anion Dependence with Eu(III) and Tb(III) Complexes containing Pentadentate Pybox Derivative (Fac. Sci., Nara Women's Univ.) ○NOKAMI, Misa; NAKAMURA, Kaho; TOMOTSUKA, Ikumi; HARAI, Maki; KATAOKA, Yumiko; KAJIWARA, Takashi

2PA-118 Substitution effect on Eu complexes with phenyl terpyridine (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KOTANI, Sohei; MASTALIR, Matthias; KURODA, Kohei; ISHII, Ayumi; LINERT, Wolfgang; HASEGAWA, Miki

Dy

2PA-119[#] Counter ions effect on crystal structure of cucurbituril coordination chain. (Grad. Sch. Sci., Tohoku Univ.) ○COSQUER, Goulven; KIMOON, Kim; YAMASHITA, Masahiro

Ce

2PA-120 Synthesis and characteristic of double-decker complexes containing thiophene (Grad. Sch. Sci. Tech., Nihon Univ.) ○MIZUMURA, Yuta; OTSUKI, Joe; SUGAWA, Kosuke; KIDA, Yuki; SHINOZAKI, Yoshinao

Tb

2PA-121 Spectral aspects of the green emissive nacre layers with terbium complexes (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KONDO, Takahiro; YAMADA, Chisaki; ISHII, Ayumi; HASEGAWA, Miki

2PA-122 Synthesis of Tb(III)-fused phthalocyaninato stacked complexes having slow magnetic relaxations (Grad. Sch. Sci., Tohoku Univ.; CREST, JST) ○MORITA, Takaumi; KATOH, Keiichi; TAKAISHI, Shinya; BREEDLOVE, Brian K.; YAMASHITA, Masahiro

2PA-123 Structures and Magnetic Properties of Dinuclear Tb(III)-Phthalocyaninato Complexes Having Different Alkyl Chains (Sch. Sci., Tohoku Univ.) ○AIZAWA, Yu; KATOH, Keiichi; BREEDLOVE, Brian K.; TAKAISHI, Shinya; YAMASHITA, Masahiro

2PA-124 Synthesis and physical properties of a porphyrin dinuclear complex designed for spintronics. (Grad. Sch. Sci., Osaka Univ.) ○SAKATA, Naoya; TANAKA, Daisuke; SUMITANI, Nobuto; INOSE, Tomoko; TANAKA, Hirofumi; OGAWA, Takuji

2PA-125 Synthesis of porphyrin-Tb(III) double-decker single-molecule magnets with long alkyl chains and their magnetic and electrochemical properties (Sch. Sci., Osaka Univ.) ○OKIMURA, Yukiko; TANAKA, Daisuke; INOSE, Tomoko; OGAWA, Takuji

Yb

2PA-126 Chain-Structured Lanthanide Complexes with Near-Infrared Emission (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KOSHIMURA, Masaomi; OGATA, Shuhei; ISHII, Ayumi; HASEGAWA, Miki

Lu

2PA-127 Synthesis and Properties of Heteroleptic Triple-decker Sandwich Dinuclear Lu(III) Complexes Containing Octabutoxy- and Octamethyl-substituted Phthalocyanines (Part 4) (Fac. Sci., Kyushu Univ.) ○TAKAHASHI, Kazuhiro; SUENAGA, Masahiko

Re

2PA-128 Theoretical study of CO₂ capture process in CO₂ photoreduction using tricarbonyl diimine transition metal complexes (Univ. of Toyama Graduate School of Science and Engineering for Education) ○MAEBA, Junichi; IWAMURA, Munetaka; NOZAKI, Koichi

Ir

2PA-129 Photochemical behavior of anionic iridium complexes with ligands of 2-phenylpyridine derivatives (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KANOU, Ryouto; TAKIZAWA, Shin-ya; MURATA, Shigeru

2PA-130 Investigation of the optimized condition of photochemical hydrogen evolution sensitized by iridium complexes with ligands of 2-(2-pyridyl)benzo[b]thiophene derivatives (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○ZENG, Fanyang; TAKIZAWA, Shin-ya; MURATA, Shigeru

2PA-131 Photophysical properties of cationic iridium complexes in vesicles (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KOMARU, Shohei; IKUTA, Naoya; TAKIZAWA, Shin-ya; MURATA, Shigeru

2PA-132 pH-Dependent Emission Properties in Cyclometalated Iridium(III) Complex Immobilized in a Cation Exchange Membrane, Nafion (Grad. Sch. Arts and Sci., The Univ. of Tokyo) FUJIMURA, Yu; ○KAMEBUCHI, Hajime; OKAZAWA, Atsushi; KOJIMA, Norimichi

2PA-133 Synthesis and properties of green-emitting heteroleptic iridium(III) complexes (IRC3, AIST; Furuya Metal Co., Ltd.) KONNO, Hideo; ○TAKESHITA, Tomohiro; IDO, Yohei; KOIKE, Kazuhide; SUGITA, Yoshiro; ITO, Takashi

2PA-134 Synthesis of New Iridium(III) Complexes Which Have Heterocyclic Compounds as a C,N Ligand (Kobe City Coll. Technol.) ○OHFUCHI, Shinichi; YOSHIDA, Yuugo; NARA, Takahiro

2PA-135 Synthesis of Iridium(III) π -Allyl Complex Bearing the Alkylene-Linked Chiral Alkylphosphine-Indenyl Ligand(Ind-P* Ligand) (Fac. Sci., Nara Women's Univ.) ○SHINO, Tomomi; URA, Yasuyuki; KATAOKA, Yasutaka

Pt

2PA-136 Syntheses and catalytic activities of water-soluble molecular cages encapsulating molecular catalysts for water-splitting reactions (Dept. Chem. Kyushu Univ.; WPI-I2CNER, Kyushu Univ.; CMS, Kyushu Univ.) ○TANAKA, Shota; NAKAZONO, Takashi; YAMAUCHI, Kosei; SAKAI, Ken

2PA-137 Synthesis and properties of heteropolynuclear Pt(II) complexes of 2-phenylpyridinate and its derivatives (Grad. Sch. Eng., Nagasaki Univ.) ○UEDA, Misa; NISHIHARA, Kazuki; SUGIYASU, Risa; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke

2PA-138 Syntheses, properties, and molecular and crystal structures of tartrate-bridged dinuclear metal complexes (Grad. Sch. Sci., Eng., Saitama Univ.; Mol. Ana. Life Sci., Saitama Univ.; Grad. Sch. Sci., Osaka Univ.) ○TANUMA, Honami; YAMAGUCHI, Syohei; OHNO, Keiji; NAGASAWA, Akira; KAIZAKI, Sumio; FUJIHARA, Takashi

2PA-139 Structure and Phosphorescent Property of Heteroleptic trans-Bis(salicylaldehyde)Pt(II) Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○YAMANE, Tatsunori; KOMIYA, Naruyoshi; NAOTA, Takeshi

2PA-140[#] Crystal structure and photophysical properties of fused salen dinuclear complexes of platinum group metal (IIS, The Univ. of Tokyo) ○ACHIRA, Hiroto; HOGA, Yuki; YOSHIKAWA, Isao; MATSUMURA, Kazunari; HOUJOU, Hirohiko

2PA-141 Stereochemistry of optically-active Pt(*O*-N₂) complexes and their meso and racemic-forms (Grad. Sch. Industrial Tech., Nihon Univ.) ○FURUKAWA, Sho; TSUNO, Takashi; BRUNNER, Henri

2PA-142 Mechanistic Study of H₂ Production from Water Catalyzed by Dinuclear Platinum(II) Complexes (Dept. Chem. Kyushu Univ.; WPI-I2CNER, Kyushu Univ.; CMS, Kyushu Univ.) ○WAKIYAMA, Fumiaki; YAMAUCHI, Kosei; SAKAI, Ken

2PA-143 Synthesis and properties of dinuclear platinum(II) complexes bearing bisdiimine derivatives (Grad. Sch. Eng., Nagasaki Univ.) ○TAGUCHI, Hibiki; FUKATANI, Shohei; KAWATE, Takahiro; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke

Au

2PA-144[#] Novel structurally defined gold cluster protected by redox-active ligands (Grad. Sch. Env. Sci., Hokkaido Univ.) ○ORDONEZ, Carlos; SHICHIBU, Yukatsu; KONISHI, Katsuki

Natural Products Chemistry

Fatty acids, polyphenols, and the related compounds

2PA-147 Convenient Synthesis and Physiological Activities of 4-(Hydroxyphenyl)-2-butanol Derivatives (Fac. Eng., Kinki Univ.) ○OKADA, Yoshiharu; NAKAMOTO, Masato; URUSHIHARA, Riho; OISHI, Chiaki; OKAMURA, Mayu; SUNAMI, Hatsune; NAKABO, Daisuke; NAKAMURA, Kensuke; NOMURA, Masato

2PA-148 Synthetic study toward total synthesis of torilobatin B using asymmetric cyclopropanation and chiral transfer ring expansion Yuta Muramatsu, Natsuki Ishida, Yoshinori Nishii (Fac. Textile Sci. Technol., Shinshu Univ.) ○ISHIDA, Natsuki; MURAMATSU, Yuta; NISHII, Yoshinori

2PA-149 Synthetic study of a novel marine polyketide, yoshinone A (Fac.

Sci. Tech., Keio Univ.) ○SHINOMIYA, Seiichi; IWASAKI, Arihiro; OHNO, Osamu; SUENAGA, Kiyotake

- 2PA-150** Synthesis of a C-C connected trigallate, nonahydroxytriphenoyl group. (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○OHARA, Kenya; HIROKANE, Tsukasa; YAMADA, Hidetoshi
- 2PA-151** Stereoselective formation of 5,5-spiroacetal ring using [3+2] annulation of *aldehyde*-aldoses (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○NISHIYAMA, Tatsuhide; KITU, Akio; SUGIMURA, Hideyuki
- 2PA-152** Ab Initio Study on Ion Mobility Mass Spectra of Flavonoid Glycosides I. Kaempferol 3-O-Glucoside, Kaempferol 3-O-Rutinoside, Quercetin 3-O-Glucoside and Quercetin 3-O-Rutinoside (Grad. Sch. Human. Sci., Nara Women's Univ.; Suntory Foundation for Life Sciences; Fac. Sci., Nara Women's Univ.) ○ONO, Sayaka; WATANABE, Takehiro; YAMAGAKI, Tohru; TAKEUCHI, Takae
- 2PA-153** Structural characterizations of acidic glycolipids from *Pleurotus eryngii* var. *tuoliensis* C.J.Mou (Coll. Sci. Tech., Nihon Univ.) ○YOSHINAGA, Kazuya; MATHEW, Anila; SUZUKI, Yusuke; KUSHI, Yasunori

Terpenes, Steroids

- 2PA-154** Efficient synthesis of novel allene-zerumbone (Grad. Sch. Agr. Sci., Kinki Univ.) ○TATSUMI, Hiroaki; KAMEO, Masaki; KITAYAMA, Takashi
- 2PA-155** Analytical study of fundamental reactivity of zerumbone derivatives (Grad. Sch. Agr. Sci., Kinki Univ.) ○NISHIKAWA, Atsuya; YAMAMOTO, Chieko; TSUZUKI, Terutaka; KITAYAMA, Takashi
- 2PA-156** Synthetic study of attractive structures from zerumbone dibromide (Fac. Agr., Kinki Univ.) ○UTAKA, Yoshimi; FUKUSHIMA, Miyuki; KAWAI, Yasushi; KITAYAMA, Takashi
- 2PA-157** Synthesis of oxygenated bisabolane compounds and differentiation of stereochemistry by NMR spectra (Grad. Sch. Sci., Rikkyo Univ.; RIKEN) ○HIRAI, Misaki; TAKAGI, Hirokazu; HIROTA, Hiroshi; KURODA, Chiaki
- 2PA-158** Furanocassane diterpenoids from *Bowdichia virgilioides* (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○KASAHARA, Taku; ENDOH, Yuta; NATSUME, Shihori; AKISUE, Goukichi; HARADA, Kenichi; KUBO, Miwa; FUKUYAMA, Yoshiyasu; HIRANO, Tomoya; KAGECHIKA, Hiroyuki; OHSAKI, Ayumi
- 2PA-159** Metabolic Fate of 16 α - and 16 β -Hydrogens of Cholesterol during the Biosynthesis of Steroidal Alkaloids and Saponines in Solanaceous Plants (Grad. Sch. Sci., Eng., Tokyo Tech) ○MORITA, Sayuri; OKAWA, Akiko; MORIUCHI, Yuka; OHYAMA, Kiyoshi; FUJIMOTO, Yoshinori
- 2PA-160** Synthetic studies of marine natural products using the Ugi reaction (Kochi Univ.) ○MIMURA, Rika; SAITO, Kenta; NAKANO, Keiji; ICHIKAWA, Yoshiyasu
- 2PA-161** Study on an improved synthesis of ecdysone (Grad. Sch. Sci., Eng., Tokyo Tech) ○ISHIZAKA, Akira; FUJIMOTO, Yoshinori

Alkaloids

- 2PA-162** Fluorescent compounds from *Quassia amara* (Nihon Univ. College of Humanities and Sciences Nihon University) ○HINATA, Naoki; HIRANO, Tomoya; KAGECHIKA, Hiroyuki; OHSAKI, Ayumi
- 2PA-163** Stereoselective construction of spiroacetal framework in Acortatarin A using [3+2] annulation of *aldehyde*-aldoses (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○TAKAHASHI, Kanako; SUGIMURA, Hideyuki

Carbohydrates

- 2PA-164** Synthetic Study of Gg3 Glycoconjugate Immobilized on Gold Nanoparticle. (Fac. of Sci., Okayama Univ. of Sci.) YAMADA, Haruo; ○OKAMOTO, Shougo
- 2PA-165** Oligosaccharides synthesis using silicon bulky protecting group (Fac. Eng., Saitama Univ.) ○MATSUMOTO, Takuma; ITO, Ryo; KONOSE, Ryuhei; KOYAMA, Tetsuo; MATSUOKA, Koji; HATANO, Ken
- 2PA-166** Application of 1,3-dipolar cycloaddition to the synthesis of the lactose immobilized on the gold nanoparticle (Fac. of Sci., Okayama Univ. of Sci.) YAMADA, Haruo; ○NISHIJIMA, Kenshin

Amino Acids, Peptides

- 2PA-167** Synthesis and characterization of water-soluble cyclophane having substrate peptide chains (Fac. Sci., Fukuoka Univ.) ○MATSUKI, Kotaro; HAYASHIDA, Osamu; ANDO, Setsuko

Others

- 2PA-168** Searching for Bioactive Compounds from Marine Sponges in Ehime Prefecture (INCS, Ehime Univ.; Grad. Sch. Sci., Eng., Ehime Univ.) ○SAKAMOTO, Motomu; KURAMOTO, Makoto; KUROKAWA, Yoshihiko; MORI, Shigeki; UNO, Hidemitsu

Polymer

- 2PA-171** Revelation of the Living Nature of Radical Polymerization Initiated with Borane-Lewis Base Complexes (Tohoku Seikatsu Bunka Univ. Polymer Chemistry Laboratory) ○KANNO, Shuichi
- 2PA-172** Control of Molecular Weights in Environmentally Benign Radical Polymerization of Vinyl Acetate in the Presence of Kojic Acid (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○TANAKA, Kazuya; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 2PA-173** An analysis of oxidation reaction of hexylthiophene on the basis of XAFS measurement (IMCE, Kyushu Univ.) ○HIRAI, Tomoyasu; SATO, Masanao; KIDO, Makoto; TERAOKA, Yasutake; NISHIBORI, Maiko; SUGIYAMA, Takeharu; KAMITANI, Kazutaka; HANADA, Kenji; KEVIN, White; HIGAKI, Yuji; KOJIO, Ken; SUGIMOTO, Ryuichi; SAIGO, Kazuhiko; TAKAHARA, Atsushi
- 2PA-174[#]** Novel Cu-Based Metallo-Supramolecular Polymers with Two Kinds of Ligands Introduced Alternately (NIMS) ○HOSSAIN, Md. Delwar; HIGUCHI, Masayoshi
- 2PA-175** The emulsion polymerization of isoprene using titanocene dichloride (Cp²TiCl²) (Coll. Sci. Eng., Kanto Gakuin Univ.) ○YAMAGISHI, Yuya; KOUZAI, Hiroaki
- 2PA-176** Oxidative Coupling Copolymerization of Dihydroxynaphthalene Derivatives Affording Novel PPO (Coll. Eng., Chubu Univ.) ○ITO, Ryosuke; USAMI, Shunsuke; HABAUE, Shigeki
- 2PA-177** Oxidative Coupling Copolymerization of 2-(Aminomethyl)phenol Derivatives (Coll. Eng., Chubu Univ.) ○IWAI, Shigeyuki; KURODA, Tomoki; MURAKI, Yasuhiro; HABAUE, Shigeki; TSUTSUI, Yasuhiro
- 2PA-178** Precise synthesis of polyamide with poly hedral oligomers silsesquioxane side chain and characterization of its physical property (Fac. Eng., Kyushu Univ.) ○NAGAE, Yusuke; OHISHI, Yomoyuki; KIDO, Makoto; SATO, Masanao; KOJIO, Ken; HIRAI, Tomoyasu; TAKAHARA, Atsushi
- 2PA-179[#]** Synthesis of conjugated polymers having fused imidazole unit (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○KURODA, Tomoharu; TAKAGI, Koji; SAKAIDA, Masanori
- 2PA-180** Synthesis of Self-Assembled Films via RAFT Dispersion Polymerization (Grad. Sch. Eng., Univ. of Fukui) ○KIKUKAWA, Takamaru; SUGIHARA, Shinji; IDA, Shouta; MAEDA, Yasushi
- 2PA-181** Synthesis of π -Conjugated Copolymers Containing Perfluorinated Phenanthrene and Dioctylfluorene units (Coll. Eng., Ibaraki Univ.) ○FUKUMOTO, Hiroki; ANDO, Masatoshi; SHIOTA, Tomomi; IZUMIYA, Hirokazu; KUBOTA, Toshio
- 2PA-182** Thermal Chemiluminescence from Gamma-Irradiated Polytetrafluoroethylene and Its Emission Mechanism (I) Investigation by Multichannel Fourier-Transform Luminescence Spectroscopy (BASE, Tokyo Univ. of Agri. and Technol.; Daikin Industries, Ltd.; Japan Applied Technology Inc.; Koga Isotope Ltd.) ○YAMADA, Emi; NOGUCHI, Tyuyoshi; AKAI, Nobuyuki; ISHII, Hiroshi; SATOH, Chikahiro; HIRONIWA, Takayuki; NAKATA, Munetaka
- 2PA-183** Investigation on the reaction of isocyanate with water in moisture-cure polyurethanes (Aichi Inst. of Tech.) ○KIZUKA, Kazunori; ISHIGAKI, Yuzo; ASAI, Kiyotsugu; INOUE, Shin-ichi
- 2PA-184** Determination of copolymerization reactivity ratios on vapor-phase assisted surface polymerization by nonlinear least-squares method (Grad. Sch. Life Sci., Sys. Eng., KIT) ○IWAKIRI, Shun; NISHIDA, Haruo
- 2PA-185[#]** Fabrication and Evaluation of Nafion Ultra-thin Film by Inkjet Printing (Japan Advanced Institute of Science and Technology) ○GUO, Yanglu; NAGAO, Yuki
- 2PA-186** Phase Separation Dynamics of Aqueous Stereo-block PNIPAM Solutions - Effects of a Sequence of Meso/Racemo Diad- (Grad. Sch. Sci., Osaka City Univ.) ○TADA, Takanori; KITAMURA, Noboru; SHOJI, Tatsuya; TSUBOI, Yasuyuki
- 2PA-187[#]** Physical Properties of Polypropylene / End-functionalized Polypropylene Blend (Grad. Sch. Sci. Tech., Nihon Univ.) ○YELIN, Cai; TAKASHI, Sawaguchi
- 2PA-188** Thermal Properties and Orientational Behavior of Liquid-Crystalline Polymer Complexes (Fac. Eng., Oita Univ.) ○HAYASHI, Toshiyuki; NATA, Masanori; UJIE, Seiji
- 2PA-189** Orientational Behavior of Metal-Complexed Liquid Crystal Polyurethanes (Fac. Eng., Oita Univ.) ○SHIMADA, Genichiro; NATA, Masanori; UJIE, Seiji
- 2PA-190** Emission Behavior of Alternating Copolymers Having Dibenzo[c,h]-1,9,10-anthridine in the Main Chain (Chem. Res. Lab., Tokyo Tech) ○OGAWA, Hirofumi; KOIZUMI, Take-aki
- 2PA-191** Synthesis of amphiphilic triblock copolymers and preparation of porous membrane (Grad. Sch. Life Sci., Ritsumeikan Univ.; SHOFU INC.) ○MAEDA, Iori; FUCHIGAMI, Kiyomi; KANEKO, Kosuke; HANASAKI, Tomonori
- 2PA-192[#]** A study on phase separation in mixed polysaccharide gels by diffusion measurements using gradient NMR (Grad. Sch. Marine Sci. and Technol., Tokyo Univ. of Marine Sci. and Technol.) LU, Yang; HU, Bingjie; ○MATSUKAWA, Shingo
- 2PA-193** Synthesis and Properties of Conjugated Polymers Containing a Phenothiazine Moieties in the Main Chain (Coll. Sci. Eng., Kanto Gakuin Univ.) ○IMAMOTO, Syoya; KOUZAI, Hiroaki

- 2PA-194** Development of Curing Resin by Irradiating Ultraviolet light (Coll. Sci. Eng., Kanto Gakuin Univ.) ○UCHIDA, Nozomu; KOUZAI, Hiroaki
- 2PA-195** Synthesis and Fluorescence Properties of Substituted Polyacetylene Containing light functionality Moieties in the Side Group (Coll. Sci. Eng., Kanto Gakuin Univ.) ○SUGANO, Shou; KOUZAI, Hiroaki
- 2PA-196** Solvent effect on photochemical reactions in dilute solutions of dendritic polycinnamates (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○KAGAMIHARA, Kouhei; NAGASAKA, Tatsuki; ICHIMURA, Kunihiro; AOKI, Ken'ichi
- 2PA-197** Photopatterning of polydiacetylene in organogel films with excellent photopolymerization reactivity (Fac. Sci., Tokyo Univ. of Sci.) ○TAKAHASHI, Daiki; NARAZAKI, Ken'ta; TAMAOKI, Nobuyuki; AOKI, Ken'ichi
- 2PA-198** Simplified electrochemical polymerization to fabricate a PEDOT hole injection/transport layer (TNCT Department of Electrical and Electronic Engineering) ○MATSUSHIMA, Tatsuki; KATORI, Shigetaka; HIROKI, Kazuaki
- 2PA-199** Synthesis and properties of dimer models for folded poly(anthrylene ethynylene). (Grad. Sch. Sci. and Technol., Niigata Univ.) ○SUGA, Fumiya; TERAGUCHI, Masahiro; AOKI, Toshiaki; KANEKO, Takashi
- 2PA-200** Synthesis of poly(9,10-anthryleneethynylene) bearing phenol residues at the 2,6-positions and magnetic property of its polyradical (Grad. Sch. Sci. and Technol., Niigata Univ.) ○OKADA, Kasumi; TERAGUCHI, Masahiro; AOKI, Toshiaki; KANEKO, Takashi
- 2PA-201** Folded π -Stacking Polymers As a Material for Solar Cell (Fac. Eng., Kanagawa Univ.) ○NAITO, Yusuke; ASANO, Naoki; FUNYU, Shigeaki; OKAMOTO, Sentaro
- 2PA-202** Synthesis of Eu bearing star-shaped polymer as an X-ray sensitizer in cancer treatment and in vitro evaluation (Grad. Sch. Mat. Sci., NAIST) ○OYU, Natsumi; ANDO, Tsuyoshi; TERADA, Kayo; KOBAYASHI, Mime; TANIHARA, Masao
- 2PA-203** Substituted Acetylenes Having an Oxyethylene Group in the Side-chain for CO₂ High Selective Separation (MURORAN INST. OF TECH.) ○YOSHIDA, Yoshiaki; MAWATARI, Yasuteru; TABATA, Masayoshi
- 2PA-204** Adsorption ability and selectivity of polymeric membranes including host molecule for the phthalate esters (Hachinohe National College of Technology; Nagaoka Univ. of Tech. Department of Materials Science and Technology) ○TAKAHATA, Hiroki; KIKUCHI, Yasuaki; KOBAYASHI, Takaomi
- 2PA-205** Structure of ice in hydrogels investigated by neutron diffraction (QBSC, JAEA) ○SEKINE, Yurina; TOUJIMA, Yuu; IKEDA-FUKAZAWA, Tomoko; FUKAZAWA, Hiroshi
- 2PA-206** Adhesion of Materials Using Host-Guest Interaction and Suzuki-Miyaura Cross-Coupling Reaction (Grad. Sch. Sci., Osaka Univ.) ○OHNISHI, Yusuke; TAKASHIMA, Yoshinori; HARADA, Akira
- 2PA-207** Fabrication of supramolecular materials with a [c2] rotaxane unit and investigation of physical properties corresponding to the branched structure (Grad. Sch. Sci., Osaka Univ.) ○SAWA, Yuki; IWASO, Kazuhisa; TAKASHIMA, Yoshinori; HARADA, Akira
- 2PA-208** Syntheses and Applications of New Gels Containing Viologen Structure (Fac. Eng., Yamagata Univ.) ○SATO, Nozomi; SYOJI, Kotarou; SATO, Rikiya
- 2PA-209** Synthesis and Surface Modification of Electro-Conductive Double-Network gels (NRI, AIST; Grad. Sch. Eng., KAIT) ○IKENAGA, Kosuke; MIURA, Toshiaki; HORIUCHI, Shin; OKUZAKI, Hidenori; KISHI, Ryoichi; OKABE, Masaru; OSADA, Yoshihito
- 2PA-210** Synthesis and Characterizations of Thermoplastic Polyimide with Disiloxane Segment (Coll. Sci. Tech., Nihon Univ.) ○ISHII, Yusuke; KOMIYA, Arisa; SASAKI, Daisuke; HOSHI, Toru; HAGIWARA, Toshiaki; SAWAGUCHI, Takashi; YOKOTA, Rikio
- 2PA-211** The control of thermoresponsibility on polysilsesquioxanehaving urea and fluorescent groups (Nat. Def. Acad.) ○KITAMOTO, Yuji; TAMASHIMA, Yamato; YAMAMOTO, Shin-ichi; MORIYA, Osamu
- 2PA-212** Development of New Functional Materials Using a Hyperbranched Polyglycidol (Fac. Eng., Yamagata Univ.) ○SUGAWARA, Natsumi; MATSUMOTO, Yoshie; HASHIMOTO, Takahiro; SATO, Rikiya
- 2PA-213** Synthesis of the Novel Optically Active Polymers Based on a Chiral Cyclic Structure (Sch. Eng., Tokyo Denki Univ.) ○MOROFUSHI, Hayato; MIYASAKA, Makoto
- 2PA-214** Synthesis and Optical Properties of Binaphthyl Derivatives Bearing Pendant Active Ester Groups. (Sch. Eng., Tokyo Denki Univ.) ○YAMAMOTO, Ryosuke; MIYASAKA, Makoto
- 2PA-215** Polymeric mediator-immobilized electrodes enhancing electric current in bioelectrocatalytic reactions (AISIN COSMOS R&D CO.,LTD. R&D Dept.) ○NAKASHIMA, Yasuo; MIZOSHITA, Norihiro; TANAKA, Hiromitsu
- 2PA-216** Investigation of thermal denaturation suppression of amylase B by the nanoparticles with glycopolymer (Toyama Nat. Coll. Technol.) ○NOGUCHI, Yumeno; FUKUDA, Tomohiro
- 2PA-219** Tumor selective PDT with an activatable photosensitizer targeted to GGT (The Univ. of Tokyo Graduate school of medicine) ○CHIBA, Mayumi; ICHIKAWA, Yuki; KAMIYA, Mako; NORBERT, Lange; URANO, Yasuteru
- 2PA-220** High-throughput drug discovery of novel inhibitors of secretion (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○SATO, Ayano; SUZUKI, Hideyuki; HONJO, Yasuko; NISHINA, Yuta
- 2PA-221** Target identification study of antitumor fusicoccins (ICR, Kyoto Univ.; ISIR, Osaka Univ.) ○WATANABE, Haruhi; PARVATKAR, Prakash; KUSUMOTO, Atsushi; WANG, Chenyu; KATO, Nobuo; SATO, Shinichi; UESUGI, Motonari; OHKANDA, Junko
- 2PA-222** Development of the new excrete assay of the sphingosine-1-phosphate transport (Sch. Sci., Osaka Univ.) ○FUKUOKA, Takahiro; KATO, Nobuo; NITTA, Hajime; HIGUCHI, Yusuke; NISHI, Tsuyoshi
- 2PA-223** Development of diazirine-based carbohydrate probes for dual-probe photoaffinity labeling (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○YAMAGUCHI, Tamayo; SAKRAI, Kaori
- 2PA-224** Development of gold nanoparticle-based multivalent carbohydrate probes for selective photoaffinity labeling and enrichment of carbohydrate-binding proteins (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HATAI, Yuki; OKADA, Ayumi; SAKURAI, Kaori
- 2PA-225** Development of membranous fluorescent probes with GFP chromophore derivatives. (Grad. Sch. Eng., Utsunomiya Univ.) OBA, Toru; ○AOKI, Takuya; ITO, Satoshi
- 2PA-226** Synthesis of novel resorufin derivatives (Grad. Sch. Eng., Utsunomiya Univ.) OBA, Toru; ○SAKAGUCHI, Ryo; ITO, Satoshi
- 2PA-227** Synthesis and properties of Gd-MRI contrast agents bearing TTTA ligands (Osaka Dent. Univ.) ○MAKITA, Yoshimasa; INOUE, Masashi; KATAYAMA, Natsuki; LEE, Hsien-han; FUJIWARA, Shin-ichi; OGAWA, Akiya
- 2PA-228** Rational design of fluorescence probes for measuring pH in acidic vesicles based on fluorescence lifetime imaging (Grad. Sch. Med., The Univ. of Tokyo) ○KODA, Kinuko; KAMIYA, Mako; ASANUMA, Daisuke; URANO, Yasuteru
- 2PA-229** Enhancing effect of the metabolite of 1'-acetoxychavicol acetate (ACA) on Photodynamic Therapy (Grad. Sch. Eng., Osaka City Univ.) ○AZUMA, Hideki; KONISHI, Takahiro; HAGIHARA, Mami; KOJIMA, Akiko; NAGASAKI, Takeshi
- 2PA-230** Synthesis of π -extended chlorophyll derivatives using phenylene ethynylene molecular wires (Grad. Sch. Eng., Utsunomiya Univ.) OBA, Toru; ○ANDO, Ai; ITO, Satoshi
- 2PA-231** Design and synthesis of new caged diacylglycerol (Fac. Sci., Toho Univ.) ○IKETANI, Yuki; MORI, Arisa; SUZUKI, Akinobu; FURUTA, Toshiaki
- 2PA-232** Design and synthesis of caged cAMPs with cell type specificity (Fac. Sci., Toho Univ.; Tokyo Metropolitan Institute of Medical Science Department of sensory and motor systems) ○SAKANO, Taichi; SUZUKI, Akinobu; UENO, Taro; SAITOE, Minoru; FURUTA, Toshiaki

Friday, March 27, AM

(12 : 30~14 : 00)

Biofunctional Chemistry ; Biotechnology

- 2PB-001** Effects of amino-sugars on the photosensitization reaction of water-soluble porphyrins by visible-irradiation (Fac. of Sci., Okayama Univ. of Sci.) KOKADO, Maiko; INOUE, Kohji; KHAN, Hiroyuki; MANABE, Saori; SHIRAIISHI, Yasunari; YOSHIMURA, Tetsushi; AOKI, Hiroyuki; INOKUCHI, Masahiko; ○ODO, Junichi
- 2PB-002** Encapsulation of chlorophyll derivatives in polymer micelles (Grad. Sch. Eng., Utsunomiya Univ.) OBA, Toru; ○MIYATA, Kota; ITO, Satoshi
- 2PB-003** Capture and Photorelease of Proteins by Biotin Coated Beads with Photocleavable Linker (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) ○ASAOMO, Satomi; FUKASAWA, Ai; KISHIMOTO, Toshihiko; WATANABE, Soichiro
- 2PB-004** Synthesis of cyclophane having a biotin moiety and its complexation with avidin (Fac. Sci., Fukuoka Univ.) ○KOJIMA, Miwa; HAYASHIDA, Osamu
- 2PB-005** Ultra-High-Sensitive HPLC for Chlorophyll Pigments toward "One-Cell" Analysis of Photosynthetic Bacteria (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○MIZOGUCHI, Tadashi; ISAJI, Megumi; YASUI, Yoshihide; SHOUTSU, Daisuke; GUNJI, Masahide; HARADA, Jiro; TSUKATANI, Yusuke; TAMIYAKI, Hitoshi
- 2PB-006** Cellular Uptake of the Oligoarginine-conjugated Porphyrins (Grad. Sch. Eng., Doshisha Univ.) ○MACHINO, Ayana; KITAGISHI, Hiroaki; KANO, Koji
- 2PB-007** Analysis of Insertion Kinetics of Central Metal into Chlorophyll Derivatives and Spectral Properties of Synthesized Metal-substituted Derivatives (Fac. Sci. Eng., Kinki Univ.; PRESTO, JST) ○SAGA, Yoshitaka; AMARI, Kenta; HYOTANI, Hiroyuki
- 2PB-008** Supramolecular thermochromism of a dye-modified cyclodextrin (Grad. Sch. Med., Eng., Univ. of Yamanashi) YAMAGAMI, Eri; TAKEUCHI, Norihide; ○KUWABARA, Tetduo
- 2PB-009** Viologen derivatives linked crown ether as a supramolecular photochromic material (Grad. Sch. Med., Eng., Univ. of Yamanashi; Grad. Sch. Sci., Eng., Saitama Univ.) SATAKE, Ryota; GUO, Haocheng; ○KUROKAWA, Hideki; KUWABARA, Tetsuo

Chemical Biology

- 2PA-219** Tumor selective PDT with an activatable photosensitizer targeted to GGT (The Univ. of Tokyo Graduate school of medicine) ○CHIBA, Mayumi; ICHIKAWA, Yuki; KAMIYA, Mako; NORBERT, Lange;

- 2PB-010** Synthesis and Properties of a Reactive Oxygen Species-Responsive Novel Manganese-Porphyrin Antioxidant (Tokyo Med. Univ. Department of Chemistry; Coll. Industrial Tech., Nihon Univ.) ○SAKAMOTO, Akira; MASUI, Dai; NAKAGAMA, Tatsuro; ARAI, Sadao; FUGAMI, Keigo
- 2PB-011** Development of Chiral Transmembrane Molecule (IMRAM, Tohoku Univ.; PRESTO, JST) ○SUGAWARA, Naoyuki; MURAOKA, Takahiro; KINBARA, Kazushi
- 2PB-012** Development of photoreactive oligonucleotide prodrug having 5-fluoro and 5-iodouracil (Sch. Mat. Sci., JAIST) ○FURUSAWA, Mirei; TAKEMATSU, Yu-ki; SHIGENO, Atsuo; SAKAMOTO, Takashi; FUJIMOTO, Kenzo
- 2PB-013** Photoresponsive Malachite Green copolymer to protect DNA from degradation by DNase (Dept. of Chem. Eng., NNCT) ○MATSUI, Takashi; UDA, Ryoko
- 2PB-014** Synthetic study of long-chain artificial DNAs with metal-ligand type nucleobases using template-independent DNA polymerases (Grad. Sch. Sci., The Univ. of Tokyo) ○KOBAYASHI, Teruki; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiro
- 2PB-015** Tandem Guanine Quadruplex Formations in RNA (Grad. Sch. Sci. Tech., Hirosaki Univ.) HAGIHARA, Masaki; ○MITSUYA, Keita
- 2PB-016[#]** Investigations of bis-fluorophore conjugates for the binding to cytosine bulge DNA (ISIR, Osaka Univ.) ○VERMA, Rajiv Kumar; NAKATANI, Kazuhiko
- 2PB-017** Enzymatic ligation of ligand-bearing artificial DNA strands using a natural DNA strand as a template (Grad. Sch. Sci., The Univ. of Tokyo) ○SASAKI, Daisuke; KOBAYASHI, Teruki; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiro
- 2PB-018** Identification of the mechanism of transcriptional regulation by G-quadruplex (Shizuoka University Graduate School of Science) ○SUZUKI, Yuya; KOBAYASHI, Takuya; TANAKA, Asami; OYOSHI, Takanori
- 2PB-019** Investigation of the selective chemical modification within a hydrophobic pocket in higher order structures of nucleic acid (IMRAM, Tohoku Univ.) ○SATO, Norihiro; SASAKI, Yoshihiro; TSUJI, Gen-ichiro; YAMADA, Ken; ONIZUKA, Kazumitsu; NAGATSUGI, Fumi
- 2PB-020** Synthesis and properties of 5-[3-(2-aminopyrimidin-4-yl)aminopropyl-1-yl]-2'-deoxyuridine derivatives (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○ITO, Yu; YAMADA, Kenji; MASAKI, Yoshiaki; KANAMORI, Takashi; SEIO, Kohji; SEKINE, Mitsuo
- 2PB-021** Synthesis of 2-N-heteroaryl-2'-deoxyguanosine (Sch. Biosci. Biotech., Tokyo Tech) ITO, Yu; ○MAKIO, Naoaki; MASAKI, Yoshiaki; KANAMORI, Takashi; SEIO, Kohji; SEKINE, Mitsuo
- 2PB-022** Photoelectric conversion systems using dye aggregates constructed with DNA (Grad. Sch. Eng., Univ. of Hyogo) ○JOMURA, Ayumi; TSUTO, Koji; NAKAMURA, Mitsunobu; TAKADA, Tadao; YAMANA, Kazushige
- 2PB-023** Sequence selective DNA photosplitting using branch migration (Sch. Mat. Sci., JAIST) ○KAWABATA, Hayato; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PB-024** Effect of complementary bases on cytosine deamination in reversible DNA photo-cross-linking (Sch. Mat. Sci., JAIST) ○OE, Minako; SAKAMOTO, Takashi; FUJIMOTO, Kenzo
- 2PB-025** Synthesis and Photophysical Properties of Oligodeoxynucleotide Containing 7-(benzofuran-2-yl)-7-deazadeoxyguanosine (Sch. Biosci. Biotech., Tokyo Tech) TOKUGAWA, Munefumi; ○CANGGADIBRATA, Jan; KANAMORI, Takashi; MASAKI, Yoshiaki; SEKINE, Mitsuo; SEIO, Kohji
- 2PB-026** Development about ¹⁹F chemical shift imaging of DNA conformational change (Sch. Mat. Sci., JAIST) ○HIRATA, Chihiro; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PB-027** Development of novel functional oligonucleotides for regulation of RISC function (III) Design of peptide-conjugated oligonucleotides for inhibition against RISC functions. (KIT) YAMAYOSHI, Asako; ○EIMORI, Nao; ARIYOSHI, Jumpei; KOBORI, Akio; MURAKAMI, Akira
- 2PB-028** Development of novel functional oligonucleotides for regulation of RISC function (II) The effects of chemical modification of oligonucleotides on releasing of microRNA from RISC (KIT) ○ARIYOSHI, Jumpei; EIMORI, Nao; NAKAMURA, Hiromi; KOBORI, Akio; MURAKAMI, Akira; YAMAYOSHI, Asako
- 2PB-029** A signal amplification RNA device based on a bimolecular splicing ribozyme (Fac. Sci., Univ. of Toyama) ○KIYOOKA, Ryuji; IKAWA, Yoshiya
- 2PB-030** Construction of double trans-splicing system based on the dimerization of a pair of chimeric ribozymes (Fac. Sci., Univ. of Toyama) ○HIRATA, Yusuke; IKAWA, Yoshiya
- 2PB-031** Structural Analysis of Unnatural Nucleosides by Vibrational Circular Dichroism (Grad. Sch. Life Sci., Hokkaido Univ.) ○NAKANO, Kie; TANIGUCHI, Tohru; MONDE, Kenji
- 2PB-032[#]** Synthesis of circular mismatch binding ligands and their binding properties to DNA and RNA (ISIR, Osaka Univ.) ○MUKHERJEE, Sanjukta; NATSUHARA, Nozomi; MORI, Yuki; MURATA, Asako; NAKATANI, Kazuhiko
- 2PB-033** Synthesis of vinyltriazine derivatives aiming at selective alkylation to mismatch structure in RNA (IMRAM, Tohoku Univ.) ○KOBAYASHI, Tomohito; ONIZUKA, Kazumitsu; NAGATSUGI, Fumi
- 2PB-034** Hypoxia Specific Oligonucleotide Therapeutics System with Intracellular Environment-Responsive Peptide Ribonucleic Acids (PRNAs) - Optimization of PRNA-PNA-PBA unit structure - (IMRAM, Tohoku Univ.) ○ASAI, Mitsuho; UEMATSU, Ryohei; ARAKI, Yasuyuki; SAKAMOTO, Seiji; KASHIDA, Hiromu; ASANUMA, Hiroyuki; WADA, Takehiko
- 2PB-035** Synthesis of natural-like cross-linked duplex RNA (IMRAM, Tohoku Univ.) ○ONIZUKA, Kazumitsu; HAZEMI, Madoka Eureka; NAGATSUGI, Fumi
- 2PB-036** Enzymatic synthesis of xeno-nucleic acid comprised of 2' -O,4' -C-methylene bridged/locked nucleic acid. (Grad. Sch. Sci. Tech., Gunma Univ.) ○KASAI, Tatsuhiro; KATAOKA, Yuka; FUJITA, Hiroto; HONDA, Naoto; KASAHARA, Yuuya; OBIKA, Satoshi; KUWAHARA, Masayasu
- 2PB-037** Immobilization of oligonucleotide on inorganic surface through self-assembled monolayer (ASRC, JAEA) ○NARITA, Ayumi; FUJII, Kentaro; YOKOYA, Akinari; BABA, Yuji; SHIMOYAMA, Iwao
- 2PB-038** Hypoxia-Specific Oligonucleotide Therapeutics with Intracellular Environment-Responsive Peptide Ribonucleic Acids - Synthesis of Chimeric PRNA Derivatives with 3' -DNA moiety - (IMRAM, Tohoku Univ.) ○INAGAKI, Masahito; UEMATSU, Ryohei; ARAKI, Yasuyuki; SAKAMOTO, Seiji; ISHIBASHI, Satoru; YOKOTA, Takanori; WADA, Takehiko
- 2PB-039** Development of the interlocked structure formation method targeting RNA (IMRAM, Tohoku Univ.) ○AMEMIYA, Takuya; ONIZUKA, Kazumitsu; NAGATSUGI, Fumi
- 2PB-040** Solid-phase Synthesis of Amide-linked RNA Having Cytosine and Uracil Bases (Teikyo Univ. of Sci. & Technol. Graduate School of Sci. & Eng.; Dept. of Biosciences) ○IWASE, Reiko; OCHIKUBO, Tatsuya; OHKUBO, Yusuke; YAJIMA, Hiroki
- 2PB-041** Synthesis and evaluation of novel photo-caged 2'-deoxypseudouridine (Sch. Biosci. Biotech., Tokyo Tech) IJIMA, Yoshihiro; ○TAKESHITA, Leo; OHNO, Kentarou; KANAMORI, Takashi; MASAKI, Yoshiaki; SEKINE, Mitsuo; SEIO, Kohji
- 2PB-042** Detecting and mapping a protein expressed on a cell surface with AFM (Grad. Sch. Eng., Kobe Univ.) ○TAKENAKA, Musashi; KOBAYASHI, Takuya; OGINO, Chiaki; KONDO, Akihiko
- 2PB-043** Observation of the elongation of carbohydrate chain on glycolipid membrane by using AFM Force mapping Measurement (Sch. Biosci. Biotech., Tokyo Tech) ○YUYA, Oka; SHINYA, Kobayashi; TOSHIKI, Mori
- 2PB-044** Immobilization of single sugar chain and single molecule observation of enzymatic reactions by using high-speed atomic force microscopy. (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○MURAKAMI, Tomoya; OTSUKA, Masanori; SUGIURA, Nobuo; KIMATA, Koji; MORI, Toshiaki
- 2PB-045** Challenge to crystal structure analysis of human peptidylglycine alpha-amidating monooxygenase (Kurume Univ. Sch. of Med.) ○SHIMOKAWA, Chizu; SHIROTA-HARADA, Saori; RUDZKA, Katarzyna; SUGISHIMA, Masakazu; SATO, Hideaki; HIGASHIMOTO, Yuichiro; AMZEL, L. Mario; NOGUCHI, Masato
- 2PB-046** Functional and structural analysis of C-terminal passenger domain in highly adhesive protein AtaA (Grad. Sch. Eng., Nagoya Univ.) ○HIRANO, Haruka; YOSHIMOTO, Syogo; KOIWA, Kotaro; NORSHARIFFUDIN, Nur 'izzah; MIKI, Akihiro; LUPAS, Andrei; LINKE, Dirk; HARTMANN, Marcus; SUZUKI, Atsuo; HORI, Katsutoshi
- 2PB-047** Effect of drugs on the interactions of eosin Y, erythrosine B, and Orange G with human serum albumin studied by induced circular dichroism (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○YAMADA, Seiko; YASUI, Masanori
- 2PB-048** EPR linewidth analysis of doubly labeled protein (IMRAM, Tohoku Univ.) ○OHBA, Yasunori; ITABASHI, Tetsuya; ABE, Junn; ARAI, Munehito; NAKAMURA, Toshikazu; TAKAHASHI, Satoshi; YAMAUCHI, Seigo
- 2PB-049** Possible peroxo state of pMMO by QM/MM approach (IMCE, Kyushu Univ.) ○ITOYAMA, Shuhei; DOITOMI, Kazuki; SHIOTA, Yoshihito; YOSHIZAWA, Kazunari
- 2PB-050** Application of computational chemistry methods to molecular design of tripeptide inhibitor of chymotrypsin (Grad. Sch. Sci., Kyushu Univ.; Fac. Arts and Sci., Kyushu Univ.) ○KESAMARU, Hitoshi; SUYAMA, Keitarou; NOSE, Takeru
- 2PB-051** Expression and the features of the constant region of human antibody light chain (kappa type) (RPP., Oita Univ.) ○ITONAGA, Shogo; UDA, Taizo; HIFUMI, Emi
- 2PB-052** Characterization of an Aryl-carboxylesterase EstAC and the Three-dimensional Structure Prediction by Homology Modeling Method (Sch. Eng., The Univ. of Shiga Pref.) ○TAKEHARA, Munenori; MURASHIMA, Atsushi; NAKAMURA, Gen; INOUE, Yoshinori; KITAMURA, Chitoshi
- 2PB-053** Characterization of the Active Site of an Aryl-carboxylesterase EstAC by Site-directed Mutagenesis, and a Proposed Mechanism of Catalysis (Sch. Eng., The Univ. of Shiga Pref.) ○NISHIMURA, Masatoshi; MURASHIMA, Atsushi; INOUE, Shigeki; TAKEHARA, Munenori; INOUE, Yoshinori; KITAMURA, Chitoshi
- 2PB-054** Interfacial behavior analysis of hydrolysis reaction by phospholipase A2 on lipid membrane (Grad. Sch. Biosci. Biotech., Tokyo Tech) ○TANAKA, Rina; MORI, Toshiaki
- 2PB-055** Effect of a Novel Porphobilinogen Derivative as an Inhibitor of Hydroxymethylbilane Synthase (Kurume Univ. Sch. of Med.; Grad. Sch.

- Eng., Kyushu Univ.; Yokohama Coll. of Pharmacy; Univ. of Miyazaki Organization for Promotion of Tenure Track; Teikyo Univ. Faculty of Fukuoka Medical Technology) ○SATO, Hideaki; TSUKAGUCHI, Mai; SUGISHIMA, Masakazu; MASUKO, Takahiro; OMATA, Yoshiaki; WADA, Kei; HISAEDA, Yoshio; NOGUCHI, Masato; YAMAMOTO, Ken
- 2PB-056** In situ Huisgen cycloaddition reaction onto the surface of membrane protein PSI using the novel alkynyl group-modified solubilization surfactants (Fac. Eng. Nagoya Inst. of Tech.) ○TANIGUCHI, Aki; KOEDA, Shuhei; SHIBATA, Masahide; NOJI, Tomoyasu; KAWAKAMI, Keisuke; DEWA, Takehisa; KAMIYA, Nobuo; MIZUNO, Toshihisa
- 2PB-057** Cloning and characterization of the polysaccharide monoxygenase from *Coprinopsis cinerea* (Grad. Sch. Fac. Sci. Technol., Tokyo Univ. of Sci.) ○SEINO, Kaori; IWABATA, Kazuki; KANAI, Yoshihiro; RUIKE, Tatsushi; SEKI, Yasutaka; SAKAI, Kenichi; SAKAI, Hideki; SAKAGUCHI, Kengo; ABE, Masahiko
- 2PB-058** Synthesis of silole-peptide derivative for the irreversible binding of norovirus 3C proteases (Grad. Sch. Sci., Eng., Saitama Univ.) ○SADANALA, Bhavya Deepthi; FURUKAWA, Takeshi; KOYAMA, Tetsuo; MATSUOKA, Koji; HATANNO, Ken
- 2PB-059** Supramolecular Asymmetric Photochirogenesis Mediated by Synthetic Antibody-1 - Preparation of 2-Anthracenecarboxylate Dimer Recognized Single Chain Antibody (IMRAM, Tohoku Univ.; Grad. Sch. Eng., Osaka Univ.; Osaka Univ. UIC & Dept. Appl. Chem.) ○YOSPANYA, Wijak; SAKAMOTO, Seiji; ARAKI, Yasuyuki; NISHIJIMA, Masaki; INOUE, Yoshihisa; WADA, Takehiko
- 2PB-060** Supramolecular Asymmetric Photochirogenesis (SMAP) of 2-Anthracenecarboxylate(AC) with Proteins & Polymer Hybrids as Chiral Reaction Media-9 -SMAP of AC with PEG modified BSA- (IMRAM, Tohoku Univ.) ○SASAKI, Haruhiko; OKUGI, Mitsuru; NISHIJIMA, Masaki; ARAKI, Yasuyuki; SAKAMOTO, Seiji; IKEDA, Yutaka; NAGASAKI, Yukio; INOUE, Yoshihisa; WADA, Takehiko
- 2PB-061** Interaction of antigen-loaded peptide nano-needles with cells (KIT) ○WAKU, Tomonori; KASAI, Ayane; KUNUGI, Shigeru; TANAKA, Naoki
- 2PB-062** Cellular Uptake of Fluorophore-Labeled Peptide Self-Assemblies. (Fac. Sci. Tech., Ryukoku Univ.) ○KISHIOKA, Kohei; IMAI, Takahito; USUI, Kenji; TOMIZAKI, Kin-ya
- 2PB-063** Evaluation of brain permeability of a peptide nanofiber with chaperone-like activity (KIT) ○UEMURA, Takuya; KOBAYASHI, Yukako; WAKU, Tomonori; OKUDA, Michiaki; SUGIMOTO, Hachiro; TANAKA, Naoki
- 2PB-064** Development of antigen delivery system using by mannose-modified peptide nanofibers (KIT) ○SHIBUYA, Tadato; WAKU, Tomonori; SUGIMURA, Yuri; KUNUGI, Shigeru; TANAKA, Naoki
- 2PB-065** Fatty acid binding of FABP studied by high throughput screening using a fluorescence probe (FIRST, Konan Univ.) ○TANINO, Yu-ichi; NAKANO, Shu-ichi; HIRAYAMA, Hidenobu; NGATOISHI, Satoru; SUGIMOTO, Naoki
- 2PB-066** Construction of PEG-incorporated synthetic protein (IMRAM, Tohoku Univ.) ○MARUYAMA, Shota; KINBARA, Kazushi
- 2PB-067** Synthesis of peptide-modified cellulose-based extracellular matrix (Fac. Sci. Tech., Ryukoku Univ.) ○TOMIZAKI, Kin-ya; ISHIDA, Tomohiro; TAWARA, Daisuke
- 2PB-068** Development of functional material utilizing the engineered photo-responsive protein (IMRAM, Tohoku Univ.) ○MAEJIMA, Tatsuya; UI, Mihoko; ARAKI, Yasuyuki; WADA, Takehiko; KINBARA, Kazushi
- 2PB-069** Effective synthesis of Carboxylate Dendrimers Peripherally Functionalized with Influenza Hemagglutinin-binding Peptide (Fac. Eng., Saitama Univ.) ○YAMATO, Sato; YOSUKE, Muramatsu; TETSUO, Koyama; KOJI, Matsuoka; TERUHIKO, Matsubara; TOSHINORI, Sato; KEN, Hatano
- 2PB-070** Tris-bipyridine ferrous complexes presenting oligosaccharides to elucidate mechanisms of carbohydrate-carbohydrate interactions (Sch. Life Sci., Toyo Univ.) ○NONAKA, Yuki; URUNO, Ryuhei; HASEGAWA, Teruaki
- 2PB-071** Synthesis of fluorescence silole-core dendrimers carrying N-acetyl lactosamine as *Staphylococcus aureus* sensor (Fac. Eng., Saitama Univ.) ○MATSUMURA, Shun; NAKAMURA, Kosuke; FURUKAWA, Takeshi; KOYAMA, Tetsuo; MATSUOKA, Koji; HATANNO, Ken
- 2PB-072** lipid characteristics of three clams (Ishikawa Pref., Univ. Faculty of Bioresources and Environmental Science) ○SAITO, Hiroaki
- 2PB-073** Construction of giant vesicles encapsulating catalytic system (Okazaki Institute for Integrative Bioscience) ○SHENG, Li; KURIHARA, Kensuke
- 2PB-074** Analysis of Physicochemical Properties of Cell Membrane during Allergic Reactions (Sch. Eng. Sci., Osaka Univ.) ○KOTA, Momoko; OKAMOTO, Yukihiko; SUGA, Keishi; UMAKOSHI, Hiroshi
- 2PB-075** Preparation of Anionic Cerasome Having Aspartate Residue and Its Membrane Properties (Grad. Sch. Mat. Sci., NAIST) ○YAMAZAKI, Taku; SUGIMOTO, Manabu; TAHARA, Keishiro; KIKUCHI, Jun-ichi
- 2PB-076** Preparation of Cerasome Having a Structural Unit of Ionic Liquid and Its Membrane Properties (Grad. Sch. Mat. Sci., NAIST; Liaoning Univ. College of Chemistry) ○HORIUCHI, Yoshiyuki; ZHANG, Qian; SONG, Xi-ming; TAHARA, Keishiro; KIKUCHI, Jun-ichi
- 2PB-077** Preparation of Hybrid Cerasomes Having Vitamin B₁₂ Activity and Their Functions as Molecular Communication Interface (Grad. Sch. Mat. Sci., NAIST; Grad. Sch. Eng., Kyushu Univ.; Liaoning Univ. Chemical Institute) ○MORII, Takuya; YAMAZAKI, Taku; TAHARA, Keishiro; ZHANG, Qian; SONG, Xi-ming; HISAEDA, Yoshio; KIKUCHI, Jun-ichi
- 2PB-078** Kinase Assay with Cell-Penetrative Cationic Polymer and Fluorogenic Liposome (Fac. Sci. Tech., Ryukoku Univ.) MIYATAKE, Tomohiro; ○TAKEMURA, Hitoshi; ISOTANI, Yuji; MATILE, Stefan
- 2PB-079** Synthesis of the deuterium-labeled glycosphingolipids for elucidating interaction with cholesterol by using ²H-NMR. (Grad. Sch. Sci., Osaka Univ.) ○NANKAKU, Takumi; IKEDA, Ryuji; TSUCHIKAWA, Hiroshi; HANASHIMA, Shinnya; MURATA, Michio
- 2PB-080** Relevance between skin irritation and membrane dynamics induced by surfactants (Sch. Mat. Sci., JAIST) ○TAKEMURA, Masaki; SHIMOKAWA, Naofumi
- 2PB-081** Isolation and characterization of chlorosomes containing bacteriochlorophyll *c*, *d*, *e*, or *f* derived from mutants of the green sulfur bacterium *Chlorobaculum limnaeum* RK-j-1 strain (Kurume Univ. Sch. of Med.; Grad. Sch. Life Sci., Ritsumeikan Univ.; Grad. Sch. Sci., Tohoku Univ.) ○HARADA, Jiro; SHIBATA, Yutaka; MIZOGUCHI, Tadashi; RYONO, Misaki; TERAMURA, Misato; YAMAMOTO, Ken; TAMIYAKI, Hitoshi
- 2PB-082** Selective measurement of glycine and asparagine using enzyme reactions coupled with spectrophotometric detection (Hiroshima City Univ. Center for Industry and Public Relations) ○KUGIMIYA, Akimitsu; FUKADA, Rie; AMANO, Shoko
- 2PB-083** Investigation of the particle separation efficiency using deterministic lateral displacement (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○TOTTORI, Naotomo; PARK, Jongho; YANAGIDA, Yasuko; HATSUZAWA, Takeshi
- 2PB-084** Fabrication of micronanofluidic device for stretching and immobilizing of single DNA (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○TAKEYAMA, Akira; PARK, Jongho; YANAGIDA, Yasuko; HATSUZAWA, Takeshi
- 2PB-085** Asymmetric Reduction of Ketones with Aquatic Plants (Grad. Sch. Sci., Osaka Pref. Univ.) OKUBO, Fumito; UJIGAWA, Kazuma; ○KOJIMA, Hideo
- 2PB-086** Asymmetric Hydrolysis of Gallate Esters with Immobilized Tannase (Grad. Sch. Sci., Osaka Pref. Univ.) MORIZANE, Masaaki; ○NISHIDA, Kotaro; KOJIMA, Hideo
- 2PB-087** Dynamic Kinetic Resolution of α -Hydroxy Esters by Lipases (Grad. Sch. Sci., Osaka Pref. Univ.) ○SUGIMOTO, Masaki; SATO, Masaaki; KOJIMA, Hideo
- 2PB-088** Enzymatic synthesis of nucleosides with the introduction of a stable isotope into the base moiety (Fac. Sci., Shiba Inst. of Tech.) ○TERADO, Nanae; FUJII, Emi; FUKUDA, Kenji; HATANNO, Akihiko
- 2PB-089** Withdrawn
- 2PB-090** Development of new colorectal colon cancer drug on the Wnt signaling pathway (Grad. Sch. Eng., Iwate Univ.) KAWANO, Tomikazu; ○WATANABE, Anzu; OGAWA, Satoshi
- 2PB-091** Fluorescence dynamics of D-amino acid oxidase: Study of functional inhibitory effect (Institute for Laser Technology Laser Biochemistry Research Team; Fac. Eng., Osaka City Univ.) ○TANIGUCHI, Seiji; CHOSROWJAN, Haik; KITAMURA, Masaya; NAKANISHI, Takeshi; TANAKA, Fumio

Resources Utilization Chemistry

- 2PB-093** Existence Form of CO₂ in MDEA Based CO₂ Solvents under High-Pressure Condition (RITE Chemical G.) ○YAMAMOTO, Shin
- 2PB-094** Catalytic conversion of xylose in high-temperature liquid water (CCS, AIST; Fac. Eng., Iwate Univ.) ○SATO, Osamu; YAMAGUCHI, Aritomo; MIMURA, Naoki; HIYOSHI, Norihito; KATO, Eri; KIYOZUMI, Yoshimichi; HANAOKA, Takaaki; SHIRAI, Masayuki
- 2PB-095** Influences of preparation process of native lignin derivatives on photochemical behaviors (Fac. Life Env. Sci, Pref. Univ. of Hiroshima) ○AOYAGI, Mitsuru
- 2PB-096** Synthesis and thermal properties of lignin-based epoxy resins cured with ester-carboxylic acid derivatives (Grad Sch. Eng., FUT) ○MASUDA, Masahiro; HIROSE, Shigeo
- 2PB-097** Properties of *Cyperus monophyllus* Vahl. made in Oita for use of renewable resource (Fac. Eng., Oita Univ.) ○IWAMI, Yuko; UJIE, Seiji
- 2PB-098** Catalytic effect of cation exchange resin on hydrolysis of water-soluble protein derived from wool (Coll. Sci. Tech., Nihon Univ.) ○SUGIMOTO, Kohei; OKA, Manami; KAKUTA, Yusuke; HIRANO, Katsumi
- 2PB-099** Formation behavior of formic and acetic acid by alkali wet oxidation of monosaccharides (RLHC, Kochi Univ.) ○OKUDA, Kazuhide
- 2PB-100** Three-dimensionally ordered geometric silicon films made by electrodeposition using kerf loss silicon as a starting material (Ube Nat. Coll. of Tech. Dep. Chem. Bio. Eng.; Grad. Sch. Sci., Tokyo Univ. of Sci.) ○TOMONO, Kazuaki; MATSUOKA, Yuka; SAKAMOTO, Ryo; KUNIMITSU, Shinya; ICHIMURA, Shyuhei; SAEKI, Masahiro
- 2PB-101** Preparation of Needle Like Fine Powder by Wet Grinding of Scallop Shell (Fac. Eng., Kitami Inst. of Tech.) SHINTANI, Akira; ○ITO, Hidenobu
- 2PB-102** Innovation of Silicone Wastes Recycling for Polishing and Cleaning

Product Industries (Chulalongkorn University Technopreneurship and Innovation Management; Chulalongkorn University Chemistry) ○PORNAMUTSIN, Nuttawut; UNOB, Fuangfa; CHANDRACHAI, Achara

2PB-103 Depolymerization of PET using trimethylolpropane and application to acrylate syntheses (Fac. Eng., KAIT; Taiyo Ink Mfg. Co., Ltd.) ○INOUE, Genki; SAEGUSA, Yasuo; FUKUDA, Shinichiro

2PB-104 Chemical recycling of PET using glycerol (Fac. Eng., KAIT; Taiyo Ink Mfg. Co., Ltd.) ○YAGISAWA, Taku; SAEGUSA, Yasuo; FUKUDA, Shinichiro

2PB-105 Chemical Recycling of Plastics by Degradation into Chemicals Using Zinc Zeolite Catalysts (MURORAN INST. OF TECH.) ○YAMADA, Kyohei; OHISHI, Ryota; NOGUUCHI, Tomo; KANDA, Yasuharu; UEMICHI, Yoshio

2PB-106 Synthesis of Reversible Network Polymers from Vegetable Oil Derivatives with Furan Group and Multifunctional Maleimide Derivatives (Tri, Osaka Textile and Polymer Section) ○INOUE, Yohtarō; TACHI, Hideki

Organic Crystals

2PB-109 Structure and Properties of Difuroanthraquinone Derivatives Bearing Aryl Substituents or Fused Aromatic Rings (Univ. of Toyama Graduate School of Science and Engineering) ○OKAMOTO, Naoki; NAKASHIMA, You; HAYASHI, Naoto; YOSHINO, Junro; HIGUCHI, Hiroyuki

2PB-110 Construction of Porous Organic Salts (POSs) Composed of Disulfonic Acids with Long π -Conjugated Molecular Frameworks and Triphenylmethylamine (Sch. Eng., Osaka Univ.) ○OKADA, Naoki; MIYANO, Tetsuya; HISAKI, Ichiro; MIYATA, Mikiji; TOHNAI, Norimitsu

2PB-111 The crystal structure and solid state properties of a triphenylamine derivative bearing three galvinoxyl subunits. (Grad. Sch. Sci., Josai Univ.; Rigaku) ENOMOTO, Yu; YOSHIZAWA, Norihiro; AKITA, Motoko; ○KOBAYASHI, Keiji; SATO, Hiroyasu

2PB-112 Structural Motif in Itraconazole Co-crystal (Sch. Sci., Tokyo Tech) ○HASHIMOTO, Risa; SEKINE, Akiko; UEKUSA, Hidehiro

2PB-113 Pseudopolymorphic phase transformation of hydrate of potassium mefenamate (Sch. Sci., Tokyo Tech) ○EGAMI, Akiko; SEKINE, Akiko; UEKUSA, Hidehiro

2PB-114 Generation and amplification of chirality by dynamic preferential crystallization of pyrrolidinone derivative (Grad. Sch. Eng., Chiba Univ.) SAKAMOTO, Masami; ○SHIRATSUKI, Ko; DOUKE, Mio; ISHIKAWA, Hiroki; MINO, Takashi

2PB-115 Control of Chiral Crystallization and Polymorphism for β -Carboline Derivatives (CAI, Chiba Univ.; Grad. Sch. Industrial Tech., Nihon Univ.) ○KITAZAWA, Masaru; MASU, Hyuma; NAKAGAMA, Tatsuro

2PB-116 Asymmetric synthesis of 3,4-diphenylsuccinimides from achiral 3,4-diphenylmaleimides involving dynamic crystallization (Chiba Univ.) ○KUNITO, Yui; YAGISHITA, Fumitoshi; HACHIYA, Shoko; KASASHIMA, Yoshio; MINO, Takashi; SAKAMOTO, Masami

2PB-117 Solid-state O₂ insertion reaction of alkyl cobaloxime complexes coordinated with di(4-fluorophenyl)glyoximes (Niigata Univ. of Pharmacy and Applied Life Science) ○ARAI, Yoshifusa; TAKAHASHI, Mami; KAWAMOTO, Misaki; ABE, Yuto; OHGO, Yoshiaki

2PB-118 Solid-state luminescent properties of aromatic hydrocarbons prepared from water-dispersible submicrometer particles (Grad. Sch. Sci., The Univ. of Tokyo; CREST, JST) ○SHOYAMA, Kazutaka; LIU, Chao; HARANO, Koji; NAKAMURA, Eiichi

2PB-119 Circularly polarized luminescence property of the optically active binaphthyl fluorophore in the matrix (Fac. Sci. Eng., Kinki Univ.) ○KONO, Yuki; NAKABAYASHI, Kazuki; WAKABAYASHI, Takashi; FUJIKI, Michiya; IMAI, Yoshitane

2PB-120 Co-crystal of Diaroylmethanoboron Difluorides that Exhibits Exciplex Emission (Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○NISHIDA, Shota; SAKAI, Atsushi; MATSUI, Yasunori; OHTA, Eisuke; IKEDA, Hiroshi

2PB-121 Synthesis, structures, and FET characteristics of thieno[2,3-b]thiophene-based bent acenes (Grad. Sch. Sci., Eng., Yamagata Univ.) ○TAKIGUCHI, Erika; OGAWA, Yuta; MAMADA, Masashi; TOKITO, Shizuo; KATAGIRI, Hiroshi

2PB-122 Coronene-Based Cation Radical Salts Composed of Segregated Stacks (Faculty of Agriculture) ○YOSHIDA, Yukihiko; ISOMURA, Kazuhide; KISHIDA, Hideo; SAKATA, Masafumi; FUJII, Yusuke; KAGAYAMA, Tomoko; MAESATO, Mitsuhiko; SAITO, Gunzi

2PB-123 Crystallization-induced Dynamic Resolution of α -Halocarboxylic Acid Using Aminoalcohols Derived from Amino Acids (Grad. Sch. Eng., Chiba Univ.) AKAZOME, Motohiro; ○ESHIMA, Hiroki; MATSUMOTO, Shoji

2PB-124 Crystal Structures and Inclusion Abilities of Salts Between *N*-Trityl Amino Acids and Chiral Amines (Grad. Sch. Eng., Chiba Univ.) AKAZOME, Motohiro; ○KOBAYASHI, Tetsuhiro; Ikegaya, Masato; MATSUMOTO, Shoji

2PB-125 Chirality Switching in the Optical Resolution of Chiral Hydroxycarboxylic Acids (Grad. Sch. Sci., Eng., Saitama Univ.) ○KODAMA, Koichi; KUROZUMI, Nobuhiro; SHITARA, Hiroaki; HIROSE, Takuji

2PB-126 Optical resolution of sulfoxides using the salts of a natural amino acid with an urea moiety and an amine. (Fac. Eng., Saitama Univ.) ○MORITA, Rina; KODAMA, Koichi; HIROSE, Takuji

Friday, March 27, PM

(15 : 00~16 : 30)

Colloid and Interface Chemistry

2PC-001 Synthesis and microspectroscopy of ZnO particles (OIT Nanomaterials-Microdevices Research Center) ○HARADA, Yoshiyuki; TANAHASHI, Ichiro

2PC-002 Surface-enhanced Raman properties of Ag nanoparticles deposited on TiO₂-coated Al foils (Fac. Eng., OIT) TANAHASHI, Ichiro; HARADA, Yoshiyuki; ○NAKAMICHI, Takuya

2PC-003 Control of the surface plasmon resonances of palladium nanorods by their aspect ratio and linkage (Fac. Sci., Tokyo Univ. of Sci.) ○SHIMIZU, Hiroki; MOTOHASHI, Ami; TAKI, Naoki; WATANABE, Kazuo

2PC-004 Theoretical analysis for hydrogen absorption property of Pd@HKUST-1 (IFRC, Kyushu Univ.) ○TSUTSUMI, Tatsuki; ISHIMOTO, Takayoshi; KOYAMA, Michihisa

2PC-005 Electro-Optic Function of Liquid-Crystalline Device Fabricated by Doping with Poly(cyclodextrin)-Protected Noble Metal/ZrO₂ Hybrid Nanoparticles (Fac. Eng., Tokyo Univ. of Sci., Yamaguchi) KANZAKI, Takahito; ASANO, Hitoshi; ○SHIRAIISHI, Yukihide; TOSHIMA, Naoki

2PC-006[#] Theoretical Study of Core-Shell Alloy of Pd and Pt Interacting with Hydrogen (Grad. Sch. Eng., Kyushu Univ.) ○NOR DIANA, Binti Zulkifli; ISHIMOTO, Takayoshi; KOYAMA, Michihisa

2PC-007 Relation between electronic structure and composition of Ag-Rh alloy nano particles: A density functional study (Fac. Sci., Ochanomizu Univ.) ○MIYAZAKI, Kasumi; MATSUDA, Aya; MORI, Hirotochi

2PC-008 In-situ Quick XAFS Analysis of the Growth of Pt/Rh and Pt/Pd Bimetallic Nanoparticles (Fac. Human Life Env., Nara Women's Univ.) ○IKEGAMI, Risa; HARADA, Masafumi

2PC-009[#] Controlled assembly of gold nanorods induced by site-specific DNA modification (ASI, RIKEN) ○WANG, Guoqing; AKIYAMA, Yoshitsugu; SHIRAIISHI, Shota; TAKARADA, Tohru; MAEDA, Mizuo

2PC-010 Investigation of Properties of Water in Ionic Liquid as Nanoparticle Formation Media by Fluorescent Probes (Dept. Mat. Sci., Wakayama Nat. Coll. of Tech.) ○WADAGUCHI, Naoya; HAYASHI, Junjiro

2PC-011 Dispersibility and functionality based on surface modification of CdTe nanoparticles (Grad. Sch. Mat. Sci., NAIST) ○YASUE, Ken; NAKASHIMA, Takuya; KAWAI, Tsuyoshi

2PC-012 High yield synthesis for Cu nanoparticles protected by amine molecules with low temperature degradability and electrical resistance evaluation for the heat sintering Cu films. (Grad. Sch. Sci. and Eng., Kansai Univ.) ○SUGIYAMA, Tomonori; HOKITA, Yuki; KAWASAKI, Hideya; ARAKAWA, Ryuichi

2PC-013 Interfacial Synthesis of Protein Nanoparticles at Water/Ionic Liquid Interface and Their DNA Encapsulation Properties (Grad. Sch. Eng., Kyushu Univ.) ○YOSHIDA, Rina; MORIKAWA, Masa-aki; KIMIZUKA, Nobuo

2PC-014 Synthesis of nanocomposites composed of nanocarbons and metallic nanoparticles under irradiation fields (Sch. Eng., Osaka Pref. Univ.) ○TOKAI, Akihiro; OKITSU, Kenji; MIZUKOSHI, Yoshiteru; HORI, Tatsuro; HORI, Fuminobu; IWASE, Akihiro

2PC-015 Synthesis of novel FeSn alloy nanoparticles (Fac. Sci., Kyushu Univ.; IJCNER, Kyushu Univ.) ○KOGA, Yukari; WATANABE, Ryota; SADAKIYO, Masaaki; YAMAUCHI, Miho

2PC-016 Size Selective Synthesis of Glutathione-protected Silver Nanoclusters by the formic acid reduction method (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○HASEGAWA, Hiromi; YAMASHITA, Kazuko; ARAKAWA, Ryuichi; KAWASAKI, Hideya

2PC-017 One-Dimensional Assemblies of DNA-Functionalized Gold Nanoparticles Prepared by Rolling Circle Amplification (RIKEN Bioengineering Laboratory; Fac. Sci., Tokyo Univ. of Sci.) ○SHIRAIISHI, Shota; AKIYAMA, Yoshitsugu; WANG, Guoqing; TAKARADA, Tohru; MIYAMURA, Kazuo; MAEDA, Mizuo

2PC-018 Fluorescence properties of aqueous dispersion of perylene nanocrystals: temperature dependence (Fac. Eng., Ehime Univ.) ○FUJIMURA, Shinji; SASAKI, Shino; ASAHI, Tsuyoshi

2PC-019 Preparation of Hollow Au Nanostructures Using Ag Cubes as a Template and Their Application to Light Energy Conversion Systems (Grad. Sch. Eng., Nagoya Univ.) ○USAMI, Tomohiro; SUGIOKA, Daisuke; KAMEYAMA, Tatsuya; TORIMOTO, Tsukasa

2PC-020 Preparation of Phase-Segregated Ferromagnetic/Antiferromagnetic Nanoparticles and the Magnetic Interaction between Both Phases (IMRAM, Tohoku Univ.; Tohoku Univ.) ○TAGAWA, Tomoya; NISHIDA, Ryo; MURAMATSU, Atsushi; NAKAYA, Masafumi

2PC-021 Polymerization behavior of vesicles in polymerizable gemini and monomeric surfactants mixtures (Grad. Sch. Fac. Sci. Technol., Tokyo Univ. of Sci.) ○KOBAYASHI, Noriyuki; KOSHIISHI, Yusuke; TAKAMATSU, Yuichiro; OKABE, Yuji; ENDO, Takeshi; SAKAI, Kenichi; SAKAI, Hideki; ABE, Masahiko; TORIGOE, Kanjiro

2PC-022 Effect of added salt on solution properties of crown-ether surfactants

- (Sch. Sci., Tokai Univ.) ○SUZUKI, Maki; FUJIO, Katsuhiko
- 2PC-023** Photo-Responsive Morphological-Transformation Abilities of Organic Nanotubes Self-Assembled from Azobenzene-Bonded Lipids and Their Mechanism Elucidation (NRI, AIST) ○KAMETA, Naohiro; MASUDA, Mitsutoshi; SHIMIZU, Toshimi
- 2PC-024** Chaperon Functions of Organic Nanotubes for Heat-Denatured Proteins (NRI, AIST) ○KAMETA, Naohiro; MINAMIKAWA, Hiroyuki; MASUDA, Mitsutoshi; SHIMIZU, Toshimi
- 2PC-025** Controlling Molecular arrangement using supramolecular nanofiber formation from nucleotide bolaamphiphiles and DNA as a template (NFRI) KANAI, Yoshikazu; OIWAURA, Rika; OHNISHI-KAMEYAMA, Mayumi
- 2PC-026** Self-assembly of a water soluble dye derivative containing a β -dicarbonyl functionality (Faculty of Science and Technology) ○BAN, Yuta; IMAIZUMI, Tomojiro; FUJITA, Norifumi
- 2PC-027** Toward Triple Ladder Polymers: Development of Novel Tripodal Triptycene Building Blocks (Chem. Res. Lab., Tokyo Tech) ○TANIGUCHI, Hidetoshi; SYOJI, Yoshiaki; FUKUSHIMA, Takanori
- 2PC-028** Preparation of nanogels incorporating fullerenes by exchange reaction method (Fac. Eng., Hiroshima Univ.) ○SUGIKAWA, Kouta; KUBO, Atsuki; IKEDA, Atsushi
- 2PC-029** Liquid-Crystalline Properties and Ionic Conductivities of Fan-Shaped Molecules Having Peripheral Ionic Moieties (Grad. Sch. Eng., The Univ. of Tokyo; Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SAKUDA, Junji; YOSHIO, Masafumi; OHNO, Hiroyuki; KATO, Takashi
- 2PC-030** Selective Detection of Amino Acids by Fluorescent Gold Nanorods Assembly (Grad. Sch. Med., Eng., Univ. of Yamanashi; Grad. Sch. Med., Eng., Univ. of Yamanashi) ○MOCHIZUKI, Chihiro; SHINMORI, Hideyuki
- 2PC-031** Design of time-limitable hydrogels from self-assembling peptides with various amino acid sequences (Grad. Sch. Eng., Doshisha Univ.) ○MOTONO, Yuta; MATUYAMA, Yusuke; MIYAZAWA, Go; KOGA, Tomoyuki; HIGASHI, Nobuyuki
- 2PC-032** Synthesis and Investigation of ROMP Property of Ru Complexes Bearing Cyclodextrin (Grad. Sch. Sci., Osaka Univ.) ○KOYANAGI, Kohei; TAKASHIMA, Yoshinori; YAMAGUSHI, Hiroyasu; HARADA, Akira
- 2PC-033** UV-sensitive Vesicle-in-vesicle (Fac. Sci., Kanagawa Univ.) ○MACHIDA, Kotaro; ITO, Shinya; NAKAJIMA, Takuma; SUZUKI, Kentaro; YAMAGUCHI, Kazuo; SUGAWARA, Tadashi
- 2PC-034** Changing of Surface Condition of Cationic Giant Vesicle caused by Addition of DNA (Fac. Sci., Kanagawa Univ.) KAMEDA, Keisuke; HIROISHI, Tatsuya; ○SUZUKI, Kentaro; SUGAWARA, Tadashi
- 2PC-035** Effect of Membrane Composition on Localization of DNA-Catalyst Complex in Vesicle-based Artificial Cell (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○MATSUO, Muneyuki; KURIHARA, Kensuke; TOYOTA, Taro; SUGAWARA, Tadashi
- 2PC-036** Hardness of organogel prepared from high concentration solutions of 12-hydroxystearic acid (Sch. Biosci. Biotech., TUT) ○OMINATO, Hatsuaki; SHIBATA, Masashi
- 2PC-037** Physical properties of oil-gels prepared from mixture of hydrogenated jojoba oil and sucrose fatty acid ester (Sch. Biosci. Biotech., TUT) ○TANABE, Takaya; SHIBATA, Masashi
- 2PC-038** Rotational relaxation of green fluorescent protein in carrageenan hydrogel (Grad. Sch. Eng., Osaka City Univ.) ○YAMASAKI, Mayo; KOMETANI, Noritsugu
- 2PC-039** Importance of balance between gelation and crystallization for producing superhydrophobic surfaces (Nagoya Municipal Industrial Research Institute) ○NAKANO, Kazunori; YAMANAKA, Motoshi
- 2PC-040[#]** Benzenammonium Liquid Crystals for the Thermal Switching of the Ionic Conductivities (Grad. Sch. Eng., The Univ. of Tokyo) ○KUO, Daniel; SOBERATS REUS, Bartolome; YOSHIO, Masafumi; ICHIKAWA, Takahiro; OHNO, Hiroyuki; KATO, Takashi
- 2PC-041** Synthesis and gelation ability of 4-perfluoroalkylbutoxybenzene derivatives (Grad. Sch. Sci. Eng., Yamaguchi Univ.) ○CAO, Banpeng; MATSUE, Yuya; MORITA, Yuki; OKAMOTO, Hiroaki
- 2PC-042** Synthesis and liquid crystal properties of 1,4- and 1,3-bis(4-alkoxyphenylazo)benzene (Fac. Eng., Soka Univ.) ○UCHIDA, Nozomi; YAMASHITA, Youhei; ITO, Masato M.
- 2PC-043** Synthesis of 1-alkyl-3-octylimidazolium bromide and liquid crystal properties (Fac. Eng., Soka Univ.) ○SHINOMIYA, Teruo; ABE, Kazuma; SAITO, Minoru; DOMAE, Hideo; ITO, Masato
- 2PC-044** Synthesis and liquid crystal properties of low molecular weight organic gelators having a coumarin skeleton (Fac. Eng., Yamaguchi Univ.; Grad. Sch. Sci. Eng., Yamaguchi Univ.) ○KANESHIGE, Yuta; FUDERA, Hiroyuki; MORITA, Yuki; OKAMOTO, Hiroaki
- 2PC-045** Film Formation of Waterborne Pigment Paint Containing Hydrolyzable Emulsifiers (Grad. Sch. Sci. Technol., Shinshu Univ.; Fac. Textile Sci. Technol., Shinshu Univ.) ○MATSUZAKI, Ryoya; KOYAMA, Miyako; ITOH, Yoshihiro
- 2PC-046** Synthesis of Alkali-hydrolyzable Zwitterionic Surfactants Containing a Betaine Ester Group and Their Application to Emulsifier for Conventional Emulsion Polymerization (Fac. Textile Sci. Technol., Shinshu Univ.; Grad. Sch. Sci. Technol., Shinshu Univ.) ○ITOH, Yoshihiro; HARAYAMA, Masaru; MATSUZAKI, Ryoya
- 2PC-047** Preparation and magnetic properties of metal-free magnetic nano-
- particles encapsulating nitroxide radicals (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○NAGURA, Kota; TAKEMOTO, Yusa; UCHIDA, Yoshiaki; SHIMONO, Satoshi; KATO, Tatsuhisa; YAMAUCHI, Jun; TAMURA, Rui
- 2PC-048** Study on the creaming behavior for protein stabilized O/W emulsions (Fac. Agr., Kagawa Univ.) ○FUKADA, Kazuhiro; KOBAYASHI, Emi
- 2PC-049** Confinement of substances in liquid microcapsules (Sch. Eng. Sci., Osaka Univ.) ○KOUNO, Hiroshi; NISHIYAMA, Norikazu; UCHIDA, Yoshiaki; IWAI, Yosuke
- 2PC-050** Effect of Higher Alcohol on Stability of Emulsion Prepared by Lactic-Acid-Bacteria Fermented Rice as Natural Emulsifier (Fac. Sci., Nara Women's Univ.; Technoble Co., Ltd.) ○NAGANO, Maki; YOSHIMURA, Tomokazu; YADA, Shiho; HADA, Yohsuke; SAWAKI, Shigetoyo
- 2PC-051** Washing properties of silicone oils contaminated on the emulsifying equipment by the three-phase emulsification: dimethyl silicone oils with high viscosity (Grad. Sch. Eng., Kanagawa Univ.; Kanagawa Univ. Project of Three-Phase Emulsification Technology; MIZUHO INDUSTRIAL CO., LTD.) ○ENOMOTO, Yasutaka; TAKAGI, Kazuyuki; IMAI, Yoko; TAJIMA, Kazuo
- 2PC-052** Washing properties of silicone oils contaminated on the emulsifying equipment by the three-phase emulsification: various types of chemical modified silicone oil (Grad. Sch. Eng., Kanagawa Univ.; Kanagawa Univ. Project of Three-Phase Emulsification Technology; MIZUHO INDUSTRIAL CO., LTD.) ○ENOMOTO, Yasutaka; TAKAGI, Kazuyuki; IMAI, Yoko; TAJIMA, Kazuo
- 2PC-053** Evaluation of Detergents by QCM for Homogeneous Polyoxypropylene-Polyoxyethylene Type Nonionic Surfactants with Stearic Acid as a Model Soil (Grad. Sch. Human. Sci., Nara Women's Univ.; Saitama Univ. Faculty of Education) ○YADA, Shiho; YOSHIMURA, Tomokazu; NAGAI, Yu; GOTOH, Keiko; MATSUOKA, Keisuke
- 2PC-054** Preparation of a Perovskite on Titania Nanosheet Ultrathin Films (Dept. Appl. Chem., Nat. Def. Acad.) UMEMURA, Yasushi; OISHI, Yuda; ○HIRAHARA, Masanari
- 2PC-055** Adsorption characteristics of vitamin A to spread lipid monolayers (Fac. Eng., Utsunomiya Univ.) ○KAWAHARA, Mina; IIMURA, Ken-ichi; MIYAKE, Miyuki
- 2PC-056** Effect on decomposition rate by generation and surface density of photodegradable dendronized self-assembled monolayer on a quartz glass (Fac. Sci., Kanagawa Univ.) ○UEDA, Yuichiro; FUJITA, Satoru; MATUSHITA, Kazuki; CHIKARAISHI, Noriko; YAMAGUCHI, Kazuo
- 2PC-057** Preparation of ultrathin TiO₂ films using mixed LB film of long-chain alkylamine and perfluoroalcohol as a template and their structural characterization (Sch. Eng., Tokyo City Univ.) ○USUI, Akitoshi; TAKAHASHI, Masashi
- 2PC-058** Preparation and Electrochemical Control of the Monolayer of a Dyad Consisting of Organic Radical and Tripod-Shaped Trithiol (Fac. Eng., Mie Univ.; Grad. Sch. Eng., Mie Univ.) ○NIWA, Yohei; MOMOSE, Ryoosuke; KITAGAWA, Toshikazu
- 2PC-059** The Electrode Reaction of Biological Molecules at SAM-modified Gold Electrodes. (Dept. Mat. Sci. Eng., Nat. Def. Acad.) ○OZAWA, Shinichiro; ABE, Hiroshi
- 2PC-060** Formation of Tethered Lipid Membranes from Stable Phospholipids and Their *I-V* Characteristics (SCRC, AIST; HORIBA, Ltd. Application Center, Research and Development Division) ○BABA, Teruhiko; TAKAGI, Toshiyuki; KANAMORI, Toshiyuki; WASAI, Yoko
- 2PC-061** Electrochemical Behavior of Self-Assembled Monolayer of Ferrocene-Deazapurine-Linked Thiol in the presence of Metal Ions (Grad. Sch. Eng., Mie Univ.) ○TONO, Ayaka; KAWANO, Takashi; HANAI, Narimi; KITAGAWA, Toshikazu
- 2PC-062** Trapping of the Carbene Generated by Irradiation of Monolayer of a Dyad Consisting of (9-Anthryl)(phenyl)diazomethane and Tripod-shaped Trithiol (Fac. Eng., Mie Univ.; Mie Univ. Community-University Research Cooperation Center; Grad. Sch. Eng., Mie Univ.) ○UEDA, Kazunori; HIRAI, Katsuyuki; KITAGAWA, Toshikazu
- 2PC-063** Standing thin-film formation by wet process using perfluoroborate. (Yonago Nat. Coll. of Tech. Department of Materials Science) MUHAMMAD, Fadhil; ODAWARA, Takeko; ○TANAKA, Susumu
- 2PC-064** Effect of isomerization of added stilbene on lamellar to inverted-hexagonal phase transition of phospholipid bilayer (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○NAKAZAWA, Koyomi; HISHIDA, Mafumi; NAGATOMO, Shigenori; YAMAMURA, Yasuhisa; SAITO, Kazuya
- 2PC-065** Effect of liquid crystalline compounds on phase behavior of phospholipid bilayer (Sch. Sci. Eng., Univ. of Tsukuba) ○USUDA, Hatsuho; HISHIDA, Mafumi; YAMAMURA, Yasuhisa; NAGATOMO, Shigenori; SAITO, Kazuya
- 2PC-066** Design and Characterization of SERS-Active Membrane Formed in Phospholipid-Modified Au Nanoparticles (Grad. Sch. Eng. Sci., Osaka Univ.) ○YOSHIDA, Tomohiro; SUGA, Keishi; ISHII, Haruyuki; OKAMOTO, Yukihiro; UMAKOSHI, Hiroshi
- 2PC-067** A study of dissipation process of oxygen nanobubbles by transient absorption spectroscopy (Univ. of Tsukuba Faculty of Pure and Applied Sciences) ○NISHIMURA, Yoshinobu; ARAI, Tatsuo
- 2PC-068** Interaction between *N*-acyl-L-homoserine lactone derivatives and lipid films as cell membrane models (Fac. Eng., Utsunomiya Univ.)

- OHTA, Masahiro; NASUNO, Eri; KATO, Norihiro; IIMURA, Ken-ichi
2PC-069 Size and optical gap control of a-C semiconductor nanoparticles by hollow cathode plasma method (Fac. Sci., Yamaguchi Univ.) HONDA, Kensuke; NAGATA, Yosiyu; ○KOBAYASHI, Ryuutarou
2PC-070 Reactive Intermediates Formed in Dioxigen-activated Cu-ZSM-5 with One or Two Water Molecule (KIT; Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○HIROSE, Yuuki; YUMURA, Takashi; KURODA, Yasushige; WAKASUGI, Takashi; KOBAYASHI, Hisayoshi
2PC-071 Density functional theory calculations on silver clusters inside a ZSM-5 zeolite cavity (KIT; Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KUMONDAI, Mitsuhiro; YUMURA, Takashi; WAKASUGI, Takashi; KURODA, Yasushige; KOBAYASHI, Hisayoshi
2PC-072 Theoretical study on roles of surface water on interfacial adhesion (IMCE, Kyushu Univ.) ○MURATA, Hiroyuki; SEMOTO, Takayuki; YOSHIZAWA, Kazunari
2PC-073 Photochromic property of tungsten/methylcellulose composite film containing glycolic acid as a dispersing agent. (Fac. Sci., Yamaguchi Univ.) ○SHIMIZU, Dai; ADACHI, Kenta; YAMAZAKI, Suzuko
2PC-074 Fabrication of the switchable nanostructured surface from hydrophobic to amphiphilic by applying potential (Fac. Sci., Yamaguchi Univ.) ○HANAMURA, Ryo; SHOIRIKI, Yusuke; KANEYASU, Shiro; HONDA, Kensuke
2PC-075 Heating-induced modification of gold nanoparticles assembled on glass substrate (The Univ. of Tokushima) ○HORIUCHI, Kana; HASHIMOTO, Syuichi
2PC-076 A Study on Chemical Modification of Graphene Using Organic Azides (Grad. Sch. Eng. Sci., Osaka Univ.) ○HADA, Kosuke; TAHARA, Kazukuni; TOBE, Yoshito
2PC-077 DFT calculations on energetically stable atomic configurations of graphene oxides (KIT) ○NISHIMURA, Naoto; YUMURA, Takashi; WAKASUGI, Takashi
2PC-078 Rate of vapor adsorption and its temperature dependence for porous coordination polymer, ZIF-8 (Sch. Sci., Osaka Univ.; The Museum of Osaka Univ.) ○YAMATANI, Tatsuya; NAKAI, Masako; UEDA, Takahiro
2PC-079 Improvement of Adhesive Strength by Surface Modification Using Deep UV Light (Hitachi, Ltd.) ○OKAMURA, Masayuki; FURUICHI, Hiroaki
2PC-080 Development of photo-patterning technique of nanofiber films using thermo-responsive gel resist (TITC) ○YOKOYAMA, Yoshiyuki
2PC-081 Fabrication of n-type amorphous carbon semiconductor that operate under long-wavelength radiation by plasma-enhanced CVD method (Fac. Sci., Yamaguchi Univ.) ○HASEGAWA, Shohey; HONDA, Kensuke; NAGATA, Yoshiya; YAMADA, Masahiro
2PC-082 Formation of Gold Nanocrystals with Unique Shapes on Si wafer (Fac. Sci. Eng., Kinki Univ.) ○SOEJIMA, Tetsuro; KATAYAMA, Yukihiro; FUJII, Sohei

Materials Chemistry

Inorganic Materials

- 2PC-085** Influence of Si/Al molar ratio on activity of hollow silica-alumina composite spheres for hydrolytic dehydrogenation of ammonia borane (Grad. Sch. Sci. Tech., Nihon Univ.) ○TOYAMA, Naoki; UMEGAKI, Tetsuo; KOJIMA, Yoshiyuki
2PC-086 Influence of pH condition on immobilization of molybdo silicic acid on hollow spheres of silica for hydrolytic dehydrogenation of ammonia borane (Coll. Sci. Tech., Nihon Univ.) ○UMEGAKI, Tetsuo; KOKUBU, Ryousuke; WATANUKI, Yasuhiro; KOJIMA, Yoshiyuki
2PC-087 Preparation of Tb^{3+} - HfO_2 fluorescent particles by urea hydrolysis coprecipitation method and investigation for their properties (Coll. Life Sci., Ritsumeikan Univ.) ○SANADA, Tomoe; HIRATA, Tetsuya; WADA, Noriyuki; KOJIMA, Kazuo
2PC-088 Proton conductivity and conduction mechanism of gypsum treated by phosphoric acid (Grad. Sch. Industrial Tech., Nihon Univ.) ○KIMURA, Takashi; YAMADA, Koji; YAMANE, Yohei

Organic Materials

- 2PC-089** Synthesis and Properties of *N,N'*-Bridged Porphyrin Derivatives for Organic Photovoltaics (Osaka Municipal Technical Research Institute; Grad. Sch. Sci., Kobe Univ.) ○TAKAO, Yuko; MATSUMOTO, Fukashi; MORIWAKI, Kazuyuki; MIZUNO, Takumi; OHNO, Toshinobu; SETSUNE, Jun-ichiro
2PC-090 Photochromic properties of Luteolinidin dye in water - ethanol - glycerin mixture (Sch. Biosci. Biotech., TUT; Fac. Eng., Shizuoka Univ.) ○YAGISHITA, Yuki; LIN, Yi-hung; TEJIMA, Ayano; KOHNO, Yoshiyumi; SHIBATA, Masashi
2PC-091 Electrochemical polymerization in smectic A liquid crystal and investigating for the polymer film surface architecture (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○DONG, Jiuchao; GOTO, Hiromasa
2PC-092 Creation of Novel Methanofullerenes Having a Triarylamine and the Application to Photovoltaics (Osaka Municipal Technical Research Institute; Fac. Sci. Tech., Ryukoku Univ.) ○MORIWAKI, Kazuyuki; IWAMOTO, Kazuki; IWASAWA, Tetsuo; MATSUMOTO, Fukashi; IWAI, Toshiyuki;

- TAKAO, Yuko; ITO, Takatoshi; MIZUNO, Takumi; OHNO, Toshinobu
2PC-093 Synthesis of heptazine derivatives soluble in organic solvents (Fac. Eng., Kagawa Univ.) ○OGAWA, Shuhei; FUNAHASHI, Masahiro; UEMURA, Shinobu
2PC-094 Synthesis and Investigating Thermal Properties of Supramolecular Complex containing Nucleic Acid Bases (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○YOSHIKAI, Saeka; KANEKO, Kosuke; HANASAKI, Tomonori
2PC-095 Synthesis of liquid crystalline gold nanoparticles and measurement of ER effect in low molecular weight liquid crystals (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○IIZUKA, Yuta; KANEKO, Kosuke; HANASAKI, Tomonori
2PC-096 Synthesis of Fluorescence quenching detection against *Staphylococcus aureus* based on silole dendrimer (Fac. Eng., Saitama Univ.) ○NAKAMURA, Kosuke; MATSUMURA, Shun; KOYAMA, Tetsuo; MATSUOKA, Koji; HATANO, Ken
2PC-097 Synthesis and catalytic activity of a phase transfer catalyst in which a plurality of guanidinium salt is bound in one molecule (Sch. Eng., Tokyo Denki Univ.) ○TANAKA, Satomi
2PC-098 Ionic Conductivity and Gas Permeability of Polyurethane Electrolyte (Grad. Sch. Eng., Toyo Univ.) ○KAWASHIMA, Tatsuya; UEHARA, Aya; TAGUCHI, Ryouko; TAJIMA, Masahiro; MATSUNAGA, Katsuji

Composite Materials

- 2PC-099** Adsorption-Desorption Behavior of In^{3+} on Clay-Poly(*N*-Isopropylacrylamide) Nanocomposite (Grad. Sch. Eng., Tokyo Denki Univ.) ○YASHIRO, Yu; ISHIMARU, Shin'ichi
2PC-100 Hybrid Materials of conducting polymer and natural fibers (Grad. sch. Phot. Sci., CIST) MIYAURA, Kazuki; ○KARTHAUS, Olaf
2PC-101 Effect of the concentration of anthocyanin dye solution on the preparation of dye-mesoporous silica composite (Sch. Biosci. Biotech., TUT; Fac. Eng., Shizuoka Univ.) ○MURAKAMI, Hodaka; ENOMOTO, Mioko; KOHNO, Yoshiyumi; SHIBATA, Masashi
2PC-102 Synthesis of Polysiloxanes by Sol-Gel Method using Formic Acid (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○KATO, Go; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro
2PC-103 Synthesis of Organic-Inorganic Polymer Hybrids from poly(acrylic acid) and Water Glass. (Grad. Sch. Eng., Tokyo City Univ.) ○SHINO, Masahiro; IWAMURA, Takeru
2PC-104 Synthesis and properties of dimethoxy(dimethyl)silane/tetramethoxysilane copolymers (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○GUNJI, Takahiro; NAKASHIMA, Hiroaki; TSUKADA, Satoru; ABE, Yoshimoto

Carbon Materials

- 2PC-105** Effects of mesoporous silica and guanidine phosphate on carbon material derived from starch as electric double layer capacitor. (Sch. Eng., KIT) ○TOMONAGA, Sho; TSUBOTA, Toshiki; KAMIMURA, Sunao; OHNO, Teruhisa
2PC-106 Synthesis of diamond particle by the arc discharge method (Hachinohe National College of Technology) ○SAITO, Takayuki; OGASAWARA, Daisuke
2PC-107 Mechanism of the interaction between surface-modified carbon materials and water-soluble proteins (Fac. Phot. Sci., CIST) ○TAKADA, Tomoya; ABE, Shigeaki; SUZUKI, Shota; SUZUKI, Yosuke
2PC-108[#] Synthesis and Characterization of Carbon Nanotube-Single Molecule Magnet Hybrids (Fac. Sci., Toho Univ.) ○YATOO, Mudasar Ahmad; NAKANISHI, Ryo; KATOH, Keiichi; YAMASHITA, Masahiro
2PC-109 Low-temperature oxidation of methane over oxidized diamond-supported SnO_2 nanoparticles catalyst (Fac. Env. Urban Eng., Kansai Univ.; KU-HRC) ○KOYAMA, Kenta; NAKAGAWA, Kiyoharu; ODA, Hirokazu
2PC-110 Chemical Modification of Exfoliated Carbon Fibers for the Sake of an Anti-cancer Nano Carbon (Fac. Eng., Oita Univ.) ○MORIKAWA, Yumi; NOBUOKA, Kaoru; KITAOKA, Satoshi; TOYODA, Masahiro; ISHIKAWA, Yuichi
2PC-111 Analysis of PEGylated nanographenes as a gene transport material (Coll. Sci. Tech., Nihon Univ.) ○TAKAHASHI, Daiki; SUGAWA, Kosuke; OTSUKI, Joe; YAMAMOTO, Seiko

Glass and Amorphous Materials

- 2PC-112** A study of structure in non-crystalline materials synthesized by milling. (Grad. Sch. Eng., Kobe Univ.) KAJINAMI, Akihiko; ○TAGUCHI, Tomoya; NARIAI, Hiroyuki

Low Dimensional Materials

- 2PC-113[#]** Preparation of crystalline $BaTiO_3$ ultra thin films by polymerized complex route (NIMS X-ray physics group) GINTER, Daniel; ○SAKURAI, Kenji
2PC-114 Preparation and Characterization of The Aqueous Heteropolyacid-supported Nano Composite Particles (Tri, Osaka) ○HAYASHI, Hirokazu; NAKASHIMA, Yoichi; KIMOTO, Masaki
2PC-115 Biomimetics Liquid-Infused Films via Layer-by-Layer Self-Assembly and Their Possibilities (Grad. Sch. Sci. Tech., Keio Univ.) ○MANABE,

- Kengo; SHIRATORI, Seimei
- 2PC-116** High gas barrier film formation for polysilazane coating film on alicyclic polyimide film using UV irradiation (Shibaura Inst. of Tech. Graduate School of Science and Engineering) ○YANAGITA, Kazuya; OHISHI, Tomoji
- 2PC-117** Preparation of tungsten trioxide thin film at low temperature using photo irradiation and proton gas sensitivity (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○KUBO, Keisuke; OHISHI, Tomoji
- 2PC-118** New preparation method of Pd-WO₃ type gasochromic switchable films by wet process (MRISD, AIST) ○NISHIZAWA, Kaori; YAMADA, Yasusei; TAJIMA, Kazuki; YOSHIMURA, Kazuki
- 2PC-119** Structural Analysis of AuNW in the Growth Process by Electron Microscopy and Light Scattering Method (Osaka Municipal Technical Research Institute) ○SAITOH, Masashi
- 2PC-120** Formation of surface-textured thin film by mist deposition method (IMRAM, Tohoku Univ.) ○WATANABE, Akira; CAI, Jinguang; QIN, Gang
- 2PC-121** Preparation and Characterization of Water-soluble Poly-ion Complexes based on Semiconducting Coordination Polymers (Grad. Sch. Mat. Sci., NAIST) ○SATO, Dai; NONOGUCHI, Yoshiyuki; KAWAI, Tsuyoshi

Functions of Materials

- 2PC-123** Fabrication of Oriented Collagen Film by Means of Surface Relief Structure (Chem. Res. Lab., Tokyo Tech) ○TOKUCHI, Saki; OGUMA, Takahiro; AKAMATSU, Norihisa; SASAKI, Takeo; SHISHIDO, Atsushi
- 2PC-124** Synthesis of silk protein-poly(lactide) conjugates (Tsuruoka Nat. Coll. of Tech. Advanced engineering course) ○HAYASAKA, Soichiro; IJIMA, Masao
- 2PC-125** Immobilization of cell adhesive peptide on poly lactic acid scaffolds through the stereo complex formation (Dep. Bio. Eng., NVCV; Fac. Chem. Materials and Bioeng., Kansai Univ.) ○IIDA, Keita; KAKINOKI, Sachiro; OYA, Yuichi; YAMAOKA, Tetsuji
- 2PC-126** Correlation between the percutaneous permeation and Hydrophile Lipophile Balance Number of Optical Activity of Amino acid ions in Hairless Mouse and Human Skins (Meisei Univ. Faculty of Sciences and Engineering; Nippon Medical School, Tama Nagayama Hospital, Department of Dermatology; Suzuki Plastic Surgery, Department of Dermatology) ○WATANABE, Yukio; HIGASHI, Naoyuki; UEDA, Toyotoshi; SHIOYA, Kazune; MATSUMOTO, Megumi; SUZUKI, Harue
- 2PC-127** Photocycloreversion reaction of silver nanoparticles covered with diarylethene polymers depending on irradiation wavelength. (Grad. Sch. Eng., Osaka City Univ.) ○HAMADA, Hiroyuki; KOBATAKE, Seiya
- 2PC-128** Thermal bleaching reaction of photochromic diarylethenes with benzothioephene-S,S-dioxide (Grad. Sch. Eng., Osaka City Univ.) ○TANAKA, Satoshi; KOBATAKE, Seiya
- 2PC-129** Wavelength and temperature dependence of photocycloreversion quantum yield of diarylethenes (Grad. Sch. Eng., Osaka City Univ.) ○SUZUKI, Masataka; YAMASHIRO, Yosuke; IMAGAWA, Hiroyuki; KOBATAKE, Seiya
- 2PC-130** Control of absorption wavelength of a bisthienylethene in the visible region by light irradiation (Grad. Sch. Eng., Yokohama Natl. Univ.) ○KUSUMOTO, Sara; KURIMURA, Yoshihiko; NAKAGAWA, Tetsuya; YOKOYAMA, Yasushi
- 2PC-131** Photochromism of spirooxazines and spiroyrans having a phenol group (Yokohama Natl. Univ.) ○TAGO, Hiromu; NAKAGAWA, Tetsuya; YOKOYAMA, Yasushi
- 2PC-132** Fluorescence spots with sub-diffraction-limit sizes achieved using fluorescent diarylethene derivatives (Sch. Eng. Sci., Osaka Univ.; Grad. Sch. Sci., Rikkyo Univ.) ○IKEGAMI, Takahiro; ITO, Syoji; MIYASAKA, Hiroshi; UNO, Kakishi; TAKAGI, Yuta; MORIMOTO, Masakazu; IRIE, Masahiro
- 2PC-133** Single-molecule tracking of photo-switchable fluorescent diarylethene derivatives in polymer thin films (Grad. Sch. Eng. Sci., Osaka Univ.) ○ARAI, Yuhei; TAKEI, Satoshi; ITO, Syoji; MIYASAKA, Hiroshi; UNO, Kakishi; TAKAGI, Yuta; MORIMOTO, Masakazu; IRIE, Masahiro
- 2PC-134** Excitation wavelength dependence of photocyclization and cyclor-eversion reactions in diarylethene derivatives: femtosecond dynamics and reaction quantum yields (Sch. Eng. Sci., Osaka Univ.) ○UNE, Kanako; OKUI, Chiaki; KATAYAMA, Tetsuro; MIYASAKA, Hiroshi; KOBATAKE, Seiya; IRIE, Masahiro
- 2PC-135** Synthesis of new diarylethene derivative with the structure of ionic liquid and its photoresponsive (Fac. Sci. Tech., Ryukoku Univ.; Coll. Sci., Rikkyo Univ.; MCHC R&D synergy center; Sch. Pharm., TUPLS; RIKEN RINC) ○TAKASE, Kazuki; TATSUMI, Yuto; MORIMOTO, Masakazu; KOJIMA, Yuku; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; UCHIDA, Kingo
- 2PC-136** Bending mechanism of diarylethene crystals having a hydrogen bond (Grad. Sch. Sci. Tech., Ryukoku Univ.; Grad. Sch. Sci., Eng., Tokyo Tech; JASRI; MCHC R&D synergy center; Sch. Pharm., TUPLS; RIKEN RINC; University of Twente; :University of Groningen) UCHIDA, Kingo; ○FUJINAGA, Noriko; UYAMA, Ayaka; SEKINE, Akiko; YASUDA, Nobuhiro; KOJIMA, Yuku; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; KATSONIS, Natalie; FERINGA, Ben
- 2PC-137** Synthesis and Optical Properties of Phenoxy-Imidazolyl Radical Conjugates (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○MISHIMA, Yasuhiro; YAMANE, Takuya; YAMAASHITA, Hiroaki; KOBAYASHI, Yoichi; ABE, Jiro
- 2PC-138** Synthesis and Photochemical Properties of Pentaarylbiimidazole Derivative Substituting Pyrenyl Groups (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○OZEKI, Dai; YAMASHITA, Hiroaki; KOBAYASHI, Yoichi; ABE, Jiro
- 2PC-139** Relationship between crystal orientation and molecular structure of diarylethene derivatives (Grad. Sch. Sci. Tech., Ryukoku Univ.; Coll. Sci., Rikkyo Univ.; MCHC R&D synergy center; Osaka Kyoiku Univ.; Grad. Sch. Sci., The Univ. of Tokyo; Sch. Pharm., TUPLS; RIKEN RINC) ○MINAMI, Kensuke; NISHIMURA, Naoto; MORIMOTO, Masakazu; KOJIMA, Yuku; TSUJIOKA, Tsuyoshi; YAMAZOE, Seiji; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; UCHIDA, Kingo
- 2PC-140** Structures and optical properties of organogels composed of low molecular-mass gelators in cycloalkane solvents (Grad. Sch. Fac. Edu., Shimane Univ.; Inst. Eng., Tokyo Univ. of Agri. and Technol.; IMS; Fac. Edu., Shimane Univ.) ○KINOSHITA, Masaru; KAJI, Toshihiko; HIRAMOTO, Masahiro; TSURUNAGA, Yoko; NISHIYAMA, Katsura
- 2PC-141** Energy harvesting by iridium complexes on clay surface (Fac. Sci., Toho Univ.; NIMS; Grad. Sch. Sci., Eng., Ehime Univ.) ○YAMAGISHI, Akihiko; TAMURA, Kenji; KITAZAWA, Takafumi; SATO, Hisako
- 2PC-142** Preparation and properties of soluble nickel dithiol complex and organic-inorganic hybrid film by laser irradiation. (Shibaura Inst. of Tech. Graduate School of Science and Engineering) ○UNO, Akira; OHISHI, Tomoji
- 2PC-143** The synthesis of a phosphorescent light-emitting material bearing carbonyl group (Osaka Prefecture Univ. Coll. of Tech.) ○NATORI, Yoshiki; TSUJIMOTO, Hidetaka
- 2PC-144** Photocatalysis of organosilica-titanium oxide hybrid particles (Fac. Eng., Shinshu Univ.) ○MAKI, Yusuke; OKADA, Tomohiko; IDE, Yusuke
- 2PC-145** Fabrication of silica hollow microspheres including iron compounds by using a W/O emulsion (Fac. Eng., Shinshu Univ.) ○KOIDE, Takashi; MAKI, Yusuke; OKADA, Tomohiko; MISIMA, Syozi
- 2PC-146** Magneto-optical effects of phthalocyanine-based thin films on ferromagnetic inorganic substrates (IIS, The Univ. of Tokyo) ○KARASAWA, Masanobu; ISHII, Kazuyuki
- 2PC-147** Fabrication of Gold Nanoparticle-modified Titanium Dioxide Nanotubes and Application in Dye Sensitized Solar Cells (Osaka Prefecture Univ. Coll. of Tech.) ○TOJO, Ayane; AKIYAMA, Tsuyoshi; NODA, Tatsuo; HIGASHIDA, Suguru
- 2PC-148** Development of noble metal nanoparticle-supported device towards the effective utilization of photons (Osaka Prefecture Univ. Coll. of Tech.; Sch. Eng., The Univ. of Shiga Pref.) ○TAKISHITA, Takao; AKIYAMA, Tsuyoshi; NODA, Tatsuo; HIGASHIDA, Suguru
- 2PC-149** Development of fullerene-based polymer as novel n-type organic semiconductor and fabrication of organic thin-film solar cell. (Osaka Prefecture Univ. Coll. of Tech.) ○TAKAHASHI, Kazushi; AKIYAMA, Tsuyoshi; NODA, Tatsuo; HIGASHIDA, Suguru
- 2PC-150** Solvent effect on optical properties of fluorene derivatives (Grad. Sch. Eng., Osaka City Univ.) ○NAKAHAMA, Tatsumoto; KOBATAKE, Seiya
- 2PC-151** Fluorescence properties of polymers having a fluorescent fluorene derivative at the end group (Grad. Sch. Eng., Osaka City Univ.) ○KOBAYASHI, Daisuke; KOBATAKE, Seiya
- 2PC-152** Evaluation of photoinduced orientation behavior of photo-cross-linkable liquid crystalline polymer film in bulk and at the near surface (Grad. Sch. Eng., Univ. of Hyogo) ○TANIGUCHI, Yusuke; INADA, Yonosuke; KONDO, Mizuho; KAWATSUKI, Nobuhiro
- 2PC-153** In-situ preparation of new photoalignment films and alignment pattern control (Sch. Eng., Univ. of Hyogo) ○KAZUTOSHI, Miyake; NOBUHIRO, Kawatsuki; MIZUHO, Kondo
- 2PC-154** Photoinduced orientation of hydrogen bonded complex films composed from liquid crystalline polymer and photoactive compounds (Grad. Sch. Eng., Univ. of Hyogo; Nissan Chemical Industries, Ltd. Materials Research Lab.) ○MINAMI, Satoshi; KONDO, Mizuho; KAWATSUKI, Nobuhiro
- 2PC-155** Formation of asymmetric surface relief in polymethacrylates comprising *N*-benzylideneaniline derivative side groups (Grad. Sch. Eng., Univ. of Hyogo) ○HOSODA, Risa; KONDO, Mizuho; KAWATSUKI, Nobuhiro
- 2PC-156** Synthesis and Properties of Novel Donor-Acceptor Pai-conjugated Dyes with High Molecular Planarity. (Fac. Sci., Josai Univ.) ○TAKAHASHI, Katsuya; IDUTSU, Daiki; TANAKA, Nobuhide; WAKAYAMA, Miho; MITSUKE, Koichiro; HASHIMOTO, Masashi
- 2PC-157** Synthesis and characterization of liquid-crystalline perylene tetracarboxylic bisimide derivatives bearing cyclotetrasiloxane rings and an ionic moiety (Fac. Eng., Kagawa Univ.) ○TAKESHIMA, Ryuya; FUNAHASHI, Masahiro
- 2PC-158** The detective properties of the film for radiation rays prepared with organic semiconductors and polymer base material (Toyama Nat. Coll. Technol.) ○NAKAJIMA, Masahiro; MINEMOTO, Yasumasa; TAKADA, Eiji
- 2PC-159** Synthesis of liquid crystalline semiconductor to possess a 3,4-

- ethylenedioxythiophene moiety (Fac. Eng., Kagawa Univ.) ○HOSUGI, Takahiro; FUNAHASHI, Masahiro
- 2PC-160** Synthesis and property evaluation liquid-crystalline oligo[3,4-ethylenedioxythiophene] derivatives bearing cyclotetrasiloxane moieties (Grad. Sch. Eng., Kagawa Univ.) ○SEIKE, Kunihiko; FUNAHASHI, Masahiro
- 2PC-161** Circularly Polarized Light Emission from Chiral Dimeric Liquid-crystalline Semiconductors Consisting of Phenylterthiophene Parts and Minimized Chiral Moiety (Grad. Sch. Eng., Kagawa Univ.) ○HAMAMOTO, Taichi; FUNAHASHI, Masahiro
- 2PC-162** Synthesis and Mesomorphic Properties of 2,7-Diaryltropones (Fac. Sci., Josai Univ.; Fac. Eng., Oita Univ.) ○SHIMA, Yuta; HASHIMOTO, Masashi; UJIE, Seiji
- 2PC-163** Cholesteric Liquid Crystals from Chemically Modified Natural Polymers (Fac. Sci., Tokyo Univ. of Sci.) ○UENUMA, Shuntaro; ISHIZAKI, Takuro; FURUMI, Seichi
- 2PC-164** Light-induced molecular reorientation behavior of polymer-stabilized dye-doped liquid crystal (Chem. Res. Lab., Tokyo Tech) ○KATAYAMA, Erika; WANG, Jing; SHISHIDO, Atsushi
- 2PC-165** Development of Noble Metal Adsorption Materials Using Mesoporous Silicate Compounds and Functional Molecular Assemblies (Nagano Pref. General Ind. Tech. Ctr.) ○KOBAYASHI, Satoshi
- 2PC-166** Effect of micropores and mesopores of activated carbon electrodes on electrical double layer formation in dilute solution (Fac. Env. Urban Eng., Kansai Univ.; KU-HRC) ○NAKAJIMA, Naoya; NAKAGAWA, Kiyoharu; ODA, Hirokazu
- 2PC-167** CO₂ adsorption property of alkaline based mixed oxides (Fac. Eng., Tokyo Univ. of Sci., Yamaguchi) ITAI, Takaaki; MOMII, Yuya; SAKAI, Munetoshi; ○IKEUE, Keita
- 2PC-168[#]** Gas adsorption properties based on hybrid polymers consisting of modified cyclodextrins and amorphous silica (Fac. Eng. Resource Sci., Akita Univ.) ○KONDO, Yoshihiko; TAKAGI, Shino; MATSUDA, Chisa; HAMADA, Fumio
- 2PC-169** Behavior and mechanism of cesium adsorption by clay minerals (Sch. Eng., Tokyo City Univ.) YABIKI, Kyosuke; ○EBA, Hiromi; SAKURAI, Kenji

Applications of Materials

- 2PC-171** Preparation and Application of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Natural Rubber Nanocomposites (Grad. Sch. Sci. Tech., Hirosaki Univ.; Thammasat University Department of chemistry, Faculty of Science and Technology; Fujikura Composites Research and Development Center) RATCHA, Arissara; ○SAITO, Tomoya; KONGPARAKUL, Suwadee; TAKAHASHI, Rika; SUTOU, Yoshitaka; SAWADA, Hideo
- 2PC-172** Preparation and Application to the Surface Modification of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Silica/Magnesium Oxide Nanocomposites (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○OIKAWA, Yuri; SAITO, Tomoya; SAWADA, Hideo
- 2PC-173** Preparation of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Polycarbonate Nanocomposites (Grad. Sch. Sci. Tech., Hirosaki Univ.; Nippon Chemical Industrial Co., Ltd. Research Division) ○OIKAWA, Yuri; SAITO, Tomoya; MIZUGUCHI, Yohei; SUGIYA, Masashi; SAWADA, Hideo
- 2PC-174** Preparation and Application to the Surface Modification of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Thermal Expandable Microcapsule Composites (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○AOMI, Yuta; SAWADA, Hideo
- 2PC-175** Application to Water/Oil Separation Membrane of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Poly(tetrafluoroethylene) Nanocomposites (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○TAKEGAHARA, Yutaro; OIKAWA, Yuri; KABUTOMORI, Masakazu; SAWADA, Hideo
- 2PC-176** Preparation and Surface Modification of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Diisocyanate Nanocomposites (Fac. Sci. Tech., Hirosaki Univ.; Grad. Sch. Sci. Tech., Hirosaki Univ.) ○SASAHARA, Shohei; AOMI, Yuta; SAWADA, Hideo
- 2PC-177** Preparation and Application of Fluoroalkylated Phenol Derivatives/Silica Nanocomposites (Grad. Sch. Sci. Tech., Hirosaki Univ.; Grad. Sch. Sci. Eng., Yamaguchi Univ.; Fac. Med., Shimane Univ.) ○TSUZUKI-ISHI, Taiki; YOSHIDA, Tomohiro; OKAMOTO, Hiroaki; YOSHIDA, Masato; SAWADA, Hideo
- 2PC-178** Preparation and Thermal Stability of a Variety of Functional Groups End-capped Oligomers/Silica Nanocomposites (Grad. Sch. Sci. Tech., Hirosaki Univ.; AIST chubu) ○KABUTOMORI, Masakazu; NISHIDA, Masakazu; FUKAYA, Haruhiko; HAYAKAWA, Yoshio; SAWADA, Hideo
- 2PC-179** Preparation and Thermal Stability of Fluoroalkyl End-capped Oligomers/Boric Acid Nanocomposites (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○SHIMAMURA, Takuto; TSUZUKI-ISHI, Taiki; SAWADA, Hideo
- 2PC-180** Efficient organofunctionalization on various substrates with hydrosilanes (Dept. of Chem. Eng., NNCT) ○ICHHI, Shun; IWAIDA, Kohji; KANAMORI, Kazuyoshi; KAMEI, Toshiyuki; NAKANISHI, Kazuki; SHIMADA, Toyoshi
- 2PC-181** Preparation of hydrosilane derivatives containing various organo-

- functional groups and organofunctionalization of various materials surface. (Dept. of Chem. Eng., NNCT; Grad. Sch. Sci., Kyoto Univ.) ○IWAIDA, Kohji; ICHEI, Shun; MASUI, Yu; KANAMORI, Kazuyoshi; KAMEI, Toshiyuki; NAKANISHI, Kazuki; SHIMADA, Toyoshi
- 2PC-182** Fabrication of Color Microlens Array onto p type Silicon wafer Based on Polymer Electrodeposition (Tri, Osaka) ○TANAKA, Takeshi; SATOH, Kazuo; HATAKEYAMA, Saeko; MURAKAMI, Shuichi; ENOMOTO, Hiroyuki; SAKURAI, Yoshiaki
- 2PC-183** Development of luminescence probes for visualizing peroxytrinitrate (Shibaura Inst. of Tech.) ○GO, Masaaki; NAKAMURA, Asao
- 2PC-184** Development of high efficiency preparation method latent pigment of diketopyrrolo pyrrole analogues using microwave(MW) irradiation and fluorescence properties (Shibaura Inst. of Tech. Graduate School of Science and Engineering) ○NAKANO, Masaki; OISHI, Tomoji; WATANABE, Masano; AOYAGI, Noboru
- 2PC-185** Color Formers with Boronic Acid Pinacol Ester for Radiation detection by Naked Eyes (Fac. Eng., Saitama Univ.; Tokyo Metropolitan Industrial Technology Reserch Institute Research and Development Department) ○YAMAMASU, Ryou; SEKIGUCHI, Masayuki; NAKAGAWA, Kiyoko; TACHIKAWA, Tatsuya
- 2PC-186** Phenoxazine-Type Oxidation-Reduction Color Former for Radiation Detection by Naked Eyes (Fac. Eng., Saitama Univ.; Tokyo Metropolitan Industrial Technology Reserch Institute Research and Development Department) ○TSUSHIO, Naoki; SEKIGUCHI, Masayuki; NAKAGAWA, Kiyoko; TACHIKAWA, Tatsuya
- 2PC-187** Facile patterning method of organic-inorganic hybrid film containing latent pigments by using photo-acid-generator and multi-coloring technique (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○KAWAGUCHI, Saori; OHISHI, Tomoji
- 2PC-188** Thermo-responsive dual mode displaying materials showing RGB coloration and emission consisted of leuco dyes and emission materials. (Grad. Sch. Adv. Integration Sci., Chiba Univ.) ○OGASAWARA, Kouki; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 2PC-189** Adhesion of Polymer Gels in the Presence of Ruthenium Chloride (Grad. Sch. Sci., Osaka Univ.) ○GOTO, Aki; NAKAMURA, Takashi; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 2PC-190** Preparation of silver nanoparticles immobilized onto textile fabrics and their antibacterial properties (Grad. Sch. Eng., Osaka Univ.) ○SEINO, Satoshi; IMOTO, Yasuo; KOUSAKA, Tomoya; NAKAGAWA, Takashi; YAMAMOTO, Takao A.
- 2PC-191** Antitumor Studies of Functional Gold Nanocubes on Irradiation with Visible Light (Grad. Sch. Med., Eng., Univ. of Yamanashi) KIKUCHI, Akinobu; ○SHINMORI, Hideyuki

Friday, March 27, AM

(9 : 30 ~ 12 : 00)

Frontiers of Artificial Photosynthesis JST PRESTO Project "Chemical Conversion of Light Energy"

- 2PD-01[#]** Development of Large Photofunctional Multi-chromophoric Systems (NAIST) ○ARATANI, Naoki
- 2PD-02[#]** Development of a molecular catalyst for water oxidation toward a hydrogen-producing solar cell (Niigata Univ.) ○YAGI, Masayuki
- 2PD-03[#]** Crystal Structure of Photosystem I from *Synechocystis* sp. PCC6803 at 5.1 Å Resolution (IPR, Osaka Univ.) ○KURISU, Genji
- 2PD-04[#]** Precise design of 3d metal complexes: Attempt to develop non-precious metal catalysts (AIST) ○NAKAJIMA, Yumiko
- 2PD-05[#]** Influence of the Ca²⁺ ion on the Mn₄Ca conformation in Photosystem II (The Univ. of Tokyo) ○ISHIKITA, Hiroshi
- 2PD-06[#]** Efficiencies of charge separation of light-harvesting/reaction center complexes reconstituted into lipid membranes (Nagoya Inst. of Tech.) ○DEWA, Takehisa
- 2PD-07[#]** Development of visible-light-driven catalytic transformation system of organic molecules (Tokyo Metropolitan Univ.) ○INAGAKI, Akiko
- 2PD-08[#]** Development of highly-active oxygen evolving catalysts toward visible-light-induced water splitting (IMS) ○MASAOKA, Shigei
- 2PD-09[#]** Localization and function of the membrane-extrinsic subunits of photosystem II in higher plants (Kyoto Univ.) ○IFUKU, Kentarou
- 2PD-10[#]** Multimodal spectral microscope for understanding chloroplast activity and overall cellular physiology in oil-producing algae (Kyoto Univ.) ○KUMAZAKI, Shigeichi
- 2PD-11[#]** Development of highly efficient water oxidation catalysts using polyoxometalates (Hiroshima Univ.) ○SADAKAE, Masahiro
- 2PD-12[#]** Elucidation of molecular mechanisms of highly efficient energy conversion and water oxidation by photosynthesis (Ehime Univ.) ○SUGIURA, Miwa
- 2PD-13[#]** Optical Trapping and Photochemical Reactions/Energy Conversion at a Plasmonic Nano-Antenna (Osaka City Univ.) ○TUBOI, Yasuyuki
- 2PD-14[#]** Identification of electron donor proteins to reduce photochemical reaction centers in purple bacteria (Kanagawa Univ.; JST) ○NAGASHIMA, Kenji
- 2PD-15[#]** In situ characterization of photoenergy conversion processes at solid/

liquid interfaces (NIMS) ○NOGUCHI, Hidenori

- 2PD-16[#]** Synthetic Studies of Metal Complexes with a Cage Type Ligand and Evaluation of the Effect on the Active Metal Centers (Osaka Univ.) ○FUNAHASHI, Yasuhiro
- 2PD-17[#]** Super-resolution fluorescence microscopy of biomineralization in diatoms and application of diatom shells (Yamagata Univ.) ○HOTTA, Jun-ichi; HORIUCHI, Yuki; SATO, Mizuki
- 2PD-18[#]** Creation of highly efficient water-splitting photocatalysts through the control of surface band structure (Tokyo Inst.Tech.) ○MAEDA, Kazuhiko
- 2PD-19[#]** Metal Binding by Organic Dyes under Chemical and Photochemical Control (IMS) ○MURAHASHI, Tetsuro
- 2PD-20[#]** Activating solar energy functions in perovskite-type metal oxides (IFRC, Kyushu Univ.) ○YAMAZAKI, Yoshihiro

Saturday, March 28, AM

(10 : 00~11 : 30)

Physical Chemistry -Structure-

- 3PA-001** DFT and ab initio studies of the structures and properties of alkylnitrite-acid molecular complexes (Fac. Eng., Iwate Univ.) ○SUZUKI, Eiichi; TAIRA, Atsunori; YASHIRO, Hitoshi
- 3PA-002** NMR Measurement of Water Surrounding Molecular Assemblies by an *in-situ* 14.3 MHz ODNP-NMR Spectroscopy (Fac. Sci., Hokkaido Univ.) ○KAGEYAMA, Yoshiyuki; KONDO, Ryota; TAKEDA, Sadamu
- 3PA-003** The density functional simulation of the structures and UV spectra of colored phenolphthalein H3PP+ and PP2- (WASEDA JUNIOR AND SENIOR HIGH SCHOOL) ○SAITOH, Toshikazu
- 3PA-004** Stopped-flow resonance Raman spectroscopic study of myoglobin (Grad. Sch. Life Sci., Univ. of Hyogo) ○YANAGISAWA, Sachiko; DESHPANDE, Megha Subhash; HIROTA, Shun; NAKAGAWA, Tatsuo; OGURA, Takashi
- 3PA-005** Time-resolved resonance Raman study of the reaction dynamics of cytochrome c oxidase (Grad. Sch. Life Sci., Univ. of Hyogo) ○NAKAGAWA, Yoshiyuki; SHINZAWA-ITOH, Kyoko; YOSHIKAWA, Shinya; NAKASHIMA, Satoru; OGURA, Takashi
- 3PA-006** Effects of structure of side chain on water structure in polymer hydrogel (Sch. Sci. Eng., Meiji Univ.) ○TOJIMA, Yu; SEKINE, Yurina; FUKAZAWA, Tomoko
- 3PA-007** Effects of Aromaticity on the Ultrafast Dynamics of Six-Membered Ring Molecular Liquids by Femtosecond Raman-Induced Kerr Effect Spectroscopy (Grad. Sch. Adv. Integration Sci., Chiba Univ.) ○KAKINUMA, Shohei; SHIROTA, Hideaki
- 3PA-008** Molecular and electron spin structures of a ring-shaped polyoxometalate studied by solid state NMR and DFT calculation (Inst. of Art and Sci., Yamagata Univ.; MO Device Corporation; NINS Institute for Molecular Science) ○IJIJIMA, Takahiro; YAMASE, Toshihiro; NISHIMURA, Katsuyuki
- 3PA-009** Raman spectrometry of monolayer graphene island (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○UEMURA, Syohei; TANAKA, Yoshito; KUTUMA, Yasunori; SANPON, Vantasin; KANEKO, Tadaaki; OZAKI, Yukihiko
- 3PA-010** Microscopic FT-IR Study on Molecular Structure of Protein and Viscid Droplets of Spider's Capture Thread (Grad. Sch. Nat. Sci., Nagoya City Univ.) ○YABE, Hironobu; KATAYAMA, Norihisa; MIYAZAWA, Mitsuhiro
- 3PA-011** Photoreaction of methyl pyridinimine hydrogen halogenide salt and its isomer (Sch. Eng., Tokyo Denki Univ.) ○IWASAKI, Naoya; SUZUKI, Takayuki
- 3PA-012** Structures of the new complexes ;carbazole derivatives and dibenzothioephene derivatives with 1,2,4,5-tetracyanobenzene (Grad. Sch. Sys. Eng., Wakayama Univ.) ○HAYASHI, Yuki; YAMAKADO, Hideo
- 3PA-013** A Study of Electronic and Magnetic Properties of Rhenium Binuclear Complexes with Proton-Electron Synchronized Transfer Using Single-Crystal ESR Spectroscopy (Grad. Sch. Sci., Osaka City Univ.) ○YAMANE, Takeshi; NAKAGAWA, Tomoki; TATSUMI, Shunsuke; SATO, Kazunobu; SUGISAKI, Kenji; KANZAKI, Yuki; TOYOTA, Kazuo; SHIOMI, Daisuke; YOSHIZAWA, Makoto; TADOKORO, Makoto; TAKUI, Takeji
- 3PA-014** Local Structural Analysis of Indium-Doped Zinc Oxide using Solid-State Indium Nuclear Magnetic Resonance and Quantum Chemical Calculation (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○OHASHI, Ryutarō; IDA, Tomonori; MIZUNO, Motohiro; SATO, Wataru; TANSO, Masataka; SHIMIZU, Tadashi
- 3PA-015** Development for C-C distance analysis of three-spin system using solid-state two-dimensional exchange NMR (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○TAKIZAWA, Naoki; OHASHI, Ryutarō; IDA, Tomonori; MIZUNO, Motohiro
- 3PA-016** Orientation of *n*-heptane in nematic and smectic A liquid crystals in 7CB/*n*-heptane system (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○KUMAGAI, Yoshihide; OHASHI, Ryutarō; IDA, Tomonori; MIZUNO, Motohiro

Physical Chemistry -Properties-

- 3PA-019** X-ray diffraction study of water structure in hydrogel (Sch. Sci. Eng., Meiji Univ.) ○NAOHARA, Ryo; NARITA, Kentaro; OKANO, Yui; SEKINE, Yurina; FUKAZAWA, Tomoko
- 3PA-020** Properties of Ionic Liquid-Water Mixtures studied by NMR chemical shift (Nat. Def. Acad. Department of Applied Chemistry) SAIHARA, Koji; ○YOSHIMURA, Yukihiko; SHIMIZU, Akio
- 3PA-021** Cooling Effect on the Lysozyme Activity in Various Aqueous Solutions (Dept. Appl. Chem., Nat. Def. Acad.) ○TAKEKIYO, Takahiro; YOSHIMURA, Yukihiko
- 3PA-022** Phase transition to liquid crystal in ionic liquid (C₈mim)BF₄ -study of dielectric permittivities- (Fac. Sci., Fukuoka Univ.) ○TAKAMATSU, Takuya; WATANABE, Keisuke; NEGITA, Keishi
- 3PA-023** Effects of Aromatic Groups in Cations on the Physical Properties of Ionic Liquids (Fac. Sci., Chiba Univ.; Grad. Sch. Adv. Integration Sci., Chiba Univ.; Brookhaven National Laboratory Chemistry Department) ○MATSUZAKI, Hironori; SHIROTA, Hideaki; RAMATI, Sharon; WISHART, James
- 3PA-024** Study of Liquid state Oleic acid by 2Dimensional NMR and Molecular Dynamics Simulation (Fac. Sci., Fukuoka Univ.) ○MURATA, Yoshio; YAMAMOTO, Yurika; MIZUMOTO, Saki; SUZUKI, Masao
- 3PA-025** Thermodynamic Scaling in a liquid crystalline phase: A relationship between static and dynamic properties (Osaka Sangyo Univ. College of General Education) ○SATO, Katsuhiko
- 3PA-026** Preparation and Electro-Optical Properties of 5CB Doped with Cyanobiphenyl Derivatives with Branched Alkyl Chains (Fac. Eng., Tokyo Univ. of Sci., Yamaguchi) ○HARA, Hiromi; ZENMYO, Akari; FUNASAKO, Yusuke; INOKUCHI, Makoto
- 3PA-027** New Ionic Plastic Crystals ($\alpha = 1-6$) and Liquid Crystals ($\alpha = 8-18$) of *n*-C_xH_(2x+1)NEt₃BEt₃Me (International Coll. Arts Sci., Yokohama City Univ.) YAMADA, Yudai; KASHIMOTO, Erina; HIRAKAWA, Satoru; ○HONDA, Hisashi
- 3PA-028** Molecular dynamics simulation of solid-liquid phase transition: Theoretical predictions of melting point and enthalpy of fusion for sugar alcohols (NRI, AIST) ○INAGAKI, Taichi; ISHIDA, Toyokazu
- 3PA-029** Growth process of tetrahydrofuran clathrate hydrate in guest/host concentration boundary layer (Department of Sci. Tech., Meiji Univ.) ○TAKAHASHI, Hiroaki; GOTO, Hiroaki; NAGASHIMA, Kazusige
- 3PA-030** Effect of guest molecule diffusion to the THF hydrate crystals grown like frost crystals (Department of Sci. Tech., Meiji Univ.) ○FUSHIYA, Takeru; YONEYAMA, Masaki; NAGASHIMA, Kazushige
- 3PA-031** Chemical functionalization of graphene nano-ribbons (Sch. Sci., Osaka Univ.) ○ISHIMURA, Fumito; FUKUMORI, Minoru; TANAKA, Hirofumi; OGAWA, Takuji
- 3PA-032** Three-dimensional tracking of single guest molecules in host polymer solids (Sch. Eng. Sci., Osaka Univ.) ○HIRATSUKA, Kengo; TAGA, Yuhei; TAKEI, Satoshi; KITAGAWA, Daichi; KOBATAKE, Seiya; ITO, Syoji; MIYASAKA, Hiroshi
- 3PA-033** Measurement of Single-molecule electric properties of polyoxometalate by MCBJ method. (Sch. Sci., Osaka Univ.) ○MIYAMOTO, Fumiya; TAKAHATA, Daiki; TSUTSUMI, Osamu; OGAWA, Takuji
- 3PA-034** The narrow energy gap of thin films of neutral radical lithium phthalocyanine and their energy level alignment at the interface with different conductive substrates (ICR, Kyoto Univ.) ○SHINTAKU, Naoto; MURDEY, Richard; YOHIDA, Hiroyuki; SATO, Naoki
- 3PA-035** Relationship between the photocurrent action spectrum and the energy gap of an α -sexithiophene thin film (ICR, Kyoto Univ.) ○NAKAO, Kazuto; MURDEY, Richard; YOSHIDA, Hiroyuki; SATO, Naoki
- 3PA-036** Preparation and characterization of organic thin films of porphyrin with carboxyl group (Fac. Sci., Toho Univ.) ○FUNAKI, Yurie; UEMURA, Shuhei; PAC, Chyongjin; MORIYAMA, Hiroshi
- 3PA-037** Synthesis of fullerene derivative with a phosphonic ester group and its evaluation as an acceptor in OPV devices (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) KAWAI, Yusuke; LEE, Haeseong; LEE, Jae S.; LEE, Seung J.; JANG, Jin; PAC, Chyongjin; ○MORIYAMA, Hiroshi
- 3PA-038** Confocal optical microscopy and cathodoluminescence microscopy of single ZnO nanostructures (Sch. Advanced Sci. Eng., Waseda Univ.) ○KAMURA, Yoshio; IMURA, Kohei
- 3PA-039** Synthesis and characterization of fullerene derivatives with carboxylic acid ester in organic photovoltaic devices (Fac. Sci., Toho Univ.) ○IGAWA, Mizuki; ABE, Kai; LEE, Haeseong; LEE, Jae S.; LEE, Seung J.; JANG, Jin; PAC, Chyongjin; MORIYAMA, Hiroshi
- 3PA-040** Fabrication and characterization of thin film of porphyrin with phosphonates moiety (Fac. Sci., Toho Univ.) ○SAWANO, Ayaka; UEMURA, Shuhei; PAC, Chyongjin; MORIYAMA, Hiroshi
- 3PA-041** Synthesis and characterization of fullerene derivatives with an alkyl spacer in organic photovoltaic devices (Fac. Sci., Toho Univ.) ○KUDA, Yuki; ABE, Kai; LEE, Haeseong; LEE, Jae S.; LEE, Seung J.; JANG, Jin; PAC, Chyongjin; MORIYAMA, Hiroshi
- 3PA-042** Structural effect of fullerene derivatives with a methoxy group and a cyano group in organic photovoltaic devices (Fac. Sci., Toho Univ.) ○MATSUMOTO, Kana; LEE, Haeseong; LEE, Jae S.; LEE, Seung J.;

JANG, Jin; PAC, Chyongjin; MORIYAMA, Hiroshi

3PA-043 Rapid preparation of Au quantum dots encapsulated in protein by UV light irradiation (Grad. Sch. Sci., Josai Univ.) ○TAKENAKA, Yoshiki; HASHIMOTO, Shota; UWADA, Takayuki; ISHIKAWA, Mitsuru

3PA-044 Relationship between emission quantum yield and protein structure in Au quantum dots encapsulated in protein (Grad. Sch. Sci., Josai Univ.) ○KIKUCHI, Toshihiro; KOBAYASHI, Saori; YAMAZAKI, Mirei; UWADA, Takayuki; ISHIKAWA, Mitsuru

3PA-045 Molecular Motion and Proton Conductivity in Imidazolium Sebaccate Crystal (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○YAMAGISHI, Ryo; OHASHI, Ryutarō; IDA, Tomonori; MIZUNO, Motohiro

3PA-046 Structural and Physical Properties of Molecular Conductors Derived from Chiral Bis(methylthio)-Substituted Donor Molecules (Grad. Sch. Mat. Sci., Univ. of Hyogo; Grad. Sch. Sci., Osaka Univ.) ○INAGAKI, Shota; HOSHIZUMI, Masato; AKUTSU, Hiroki; NAKATSUJI, Shin'ichi; YAMADA, Jun-ichi

3PA-047 Structural and Physical Properties of Molecular Conductors Derived from Racemic and Chiral Forms of DMDDHA-TTP (Grad. Sch. Mat. Sci., Univ. of Hyogo; Grad. Sch. Sci., Osaka Univ.) ○SAKAMOTO, Shougo; KOUZUKI, Naoharu; AKUTSU, Hiroki; NAKATSUJI, Shin'ichi; YAMADA, Jun-ichi

3PA-048 Syntheses, structures and physical properties of diacetylene derivatives designed for the development of new photofunctional materials (Grad. Sch. Sci., Osaka Pref. Univ.) ○TANIGUCHI, Shohei; FUJIWARA, Hideki

3PA-049 Structure and Properties of MTDT-TTP salts (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) ○TSUCHIDA, Yuzuru; ISO, Daisuke; USUI, Kenji; TAKAHASHI, Shoan; OGATA, Tomoya; KODAMA, Takeshi; FUJITA, Wataru; KIKUCHI, Koichi

3PA-050 Physical property of single component molecular conductor Au(bdt) 2 under uniaxial strain (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.; Grad. Sch. Nat. Sci., Nagoya City Univ.) ○USUI, Kenji; KODAMA, Takeshi; FUJITA, Wataru; KIKUCHI, Koichi

3PA-051 Synthesis and properties of donor-acceptor system based on PDI and TTF (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○SATO, Megumi; NISHIKAWA, Hiroyuki

3PA-052 Proton transfer in an asymmetric one dimensional proton channel of MeNH₃⁺ and Na⁺ salt of coordination polymer (Grad. Sch. Chi. Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) ○OHTA, Yuki; MARUTA, Goro; KAGEYAMA, Yoshiyuki; TAKEDA, Sadamu

3PA-053 Syntheses and properties of TTF derivatives substituted by ethynylferrocene as a localized spin source (Grad. Sch. Sci. Eng., Univ. of Toyama) ○SAKUMA, Sho; YAMAGUCHI, Akie; KUMAMOTO, Yuki; MIYAZAKI, Akira

3PA-054 Synthesis and properties of two squaric-acid disubstituted TTF derivatives (Grad. Sch. Sci. Eng., Univ. of Toyama) ○RYO, Yoshioka; YOSUKE, Fujii; SATOSHI, Ono; AKIRA, Miyazaki

3PA-055 Crystal Growth and Structure Analyses of Basic Copper Salts with Two-dimensional Triangular Lattices and Diamond Chain Networks (Grad. Sch. Nat. Sci., Nagoya City Univ.) ○FUJITA, Wararu

3PA-056 Investigation of photo-jumping mechanism of 6,13-diazapentacene crystal (Grad. Sch. Sys. Eng., Wakayama Univ.) ○FUKUYAMA, Naoki; YAMAKADO, Hideo

3PA-057 Charged Exiton of CdSe Nanoplatelets prepared by Photochemical Electronic Doping (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○KAKIMOTO, Naoki; OKUHATA, Tomoki; USUI, Yuki; TAMAI, Naoto

3PA-058 Photochemical behavior of stilbene dendrimer having naphthalene and benzophenone (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○TAIMA, Masahiro; TUDA, Seisuke; ARAI, Tatsuo

3PA-059 Charged Exiton of CdTe QDs prepared by Photochemical Electronic Doping (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○YOSHIOKA, Daiki; OKUHATA, Tomoki; USUI, Yuki; TAMAI, Naoto

3PA-060 Photochromic and Mechanochromic Properties of Nafion Membranes Incorporating Cationic Spiropyran (Fac. Eng., Tokyo Univ. of Sci., Yamaguchi) ○FUNASAKO, Yusuke; TAKAKI, Akihiro; INOKUCHI, Makoto; MOCHIDA, Tomoyuki

3PA-061 Stress Effect on Clay Intercalation Compound of Cationic Spiropyran (Fac. Eng., Tokyo Univ. of Sci., Yamaguchi) ○TAKAKI, Akihiro; FUNASAKO, Yusuke; INOKUCHI, Makoto

3PA-062 Stress effect on aggregation films prepared from spiropyran derivatives with long alkyl chains (Fac. Eng., Tokyo Univ. of Sci., Yamaguchi) ○KARATSU, Ryouta; FUNASAKO, Yusuke; INOKUCHI, Makoto

Physical Chemistry -Chemical Kinetics and Dynamics-

3PA-065 Laser Flash Photolysis Research of Aromatic Thioketone (Fac. Sci., Saitama Univ.) ○KUMAGAI, Rei; YAGO, Tomoaki; WAKASA, Masanobu

3PA-066 Reaction Control of Diarylethene Maleic Anhydride in Aqueous Solution using Multi-Laser irradiation (Grad. Sch. Eng., FUT) ○TAKESHITA, Tatsuya; HARA, Michihiro

3PA-067 Two-step excitation photoreaction of Bis(6-hydroxy-2-naphthyl) Disulfide (Fac. Sci., Saitama Univ.) ○EGASHIRA, Yui; YAGO,

Tomoaki; WAKASA, Masanobu

3PA-068 Conformation changes of the diarylethene derivatives in the grand state (Grad. Sch. Sci., Eng., Saitama Univ.) ○MURATA, Ryutarō; YAGO, Tomoaki; WAKASA, Masanobu

3PA-069 Dynamics and mechanism of photoinduced charge separation of cyanobianthryl in ionic liquids. (Grad. Sch. Eng. Sci., Osaka Univ.) TAKEUCHI, Eisuke; YONEDA, Yusuke; NAGASAWA, Yutaka; ○MIYASAKA, Hiroshi

3PA-070 Electrochemical conversion of CO₂ to CO by reduction of nitropyridine derivatives and its Ru complex (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○KUSAKA, Shinpei; NEWTON, Graham; KURAMOCHI, Satoshi; SHIRAIISHI, Ryo; OSHIO, Hiroki

3PA-071 Effects of Lewis Acids on the Radical-Scavenging Activity and Oxidation Potentials of Hydroquinones (NIRS Research Center for Charged Particle Therapy) ○WAKI, Tsukasa; OHKUBO, Kei; MATSUMOTO, Ken-ichiro; FUKUZUMI, Shunichi; OZAWA, Toshihiko; KAMADA, Tadashi; NAKANISHI, Ikuo

3PA-072 Structures of samarium-acetone cluster ions studied by time-of-flight mass spectrometry (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○SAITO, Koudai; YAMAKITA, Yoshihiro

3PA-073 Preparation of an Au₁₁ Clusters Dimer Connected by Rigid Bidentate Ligands (Grad. Sch. Sci. Eng., Ibaraki Univ.) IZUOKA, Akira; ○WATAHIKI, Ryouyusuke

3PA-074 Theoretical study on isotope-selective vibrational excitation of the lithium chloride molecule by optical pulses (QBSC, JAEA) ○ICHIHARA, Akira; YOKOYAMA, Keiichi

3PA-075 Ab initio Study on Mechanisms of On-Resonance Excitation Collision Induced Dissociation of Protonated Phosphopeptides VI. Calculation of Rate Constants of unimolecular decomposition (Grad. Sch. Human Sci., Nara Women's Univ.) ○YAMASHITA, Asuka; TAKEUCHI, Takae

3PA-076 Dynamics of structural change in photoexcited Cu(I) complexes with 4,7-substituted phenanthroline ligands. (Univ. of Toyama Graduate School of Science and Engineering for Education) ○KOBAYASHI, Fumiaki; IWAMURA, Munetaka; NOZAKI, Koichi

3PA-077 Photocatalytic Reaction Analysis using the Time-resolved Laser Induced Luminescence Measurements. (NNCT) ○MURAKAMI, Yoshinori; YAMASAKI, Tatsuya

Catalysts and Catalysis

3PA-079 Selective dehydrogenation of alcohols over Pd modified silica-supported Cu catalysts and its characterization (Grad. Sch. Sci. Eng., Yamaguchi Univ.) ○SAKATA, Yoshihisa; SHIMODA, Takato; MIZUTA, Tomoaki; IMAMURA, Hayao

3PA-080 *in-situ* XAFS Analysis for NH₃ Poisoning of Ru/ α -Al₂O₃ for CO Preferential Oxidation and Inhibition of Deactivation by Pt addition (ESICB, Kyoto Univ.; Fac. Eng., Oita Univ.; Grad. Sch. Eng., Kyoto Univ.) ○SATO, Katsutoshi; ZAITSU, Shuhei; TERAMURA, Kentaro; TANAKA, Tsunehiro; NAGAOKA, Katsutoshi

3PA-081 Development of core-shell type composite catalyst consisted of porous coordination polymers (Grad. Sch. Eng., Oita Univ.; Kyoto Univ. Elements Strategy Initiative for Catalysts and Batteries) ○KAGEURA, Naoyuki; TAKEISHI, Yuma; ITO, Naoki; SATO, Katsutoshi; NAGAOKA, Katsutoshi

3PA-082 Effect of support on the Ir-catalyzed dehydrogenative synthesis of benzimidazoles (Fac. Eng., Kagawa Univ.; Kagawa Univ. Fac. Med.) ○LIU, Gang Chuan; FENG, Qi; WADA, Kenji

3PA-083 Preparation of montmorillonite supported late transition metals and their catalysis (Fac. Sci., Kyushu Univ.) ○MOURI, Takahiro; ISHIDA, Tamao; HAMASAKI, Akiyuki; TOKUNAGA, Makoto

3PA-084 Synthesis of Ni/Pd Bimetallic Nanoparticles and Examination of the Application to Crown Jewel Catalyst. (Tokyo Univ. of Sci., Yamaguchi Tokyo Univ. of Sci. Yamaguchi) ○NOZOE, Yuo; EITOKU, Souta; ASANO, Hitoshi; SHIRAIISHI, Yukihide; TOSHIMA, Naoki

3PA-085[#] Controlled synthesis of ultrafine surfactant-free NiPt nanocatalysts towards efficient and complete hydrogen generation from hydrazine borane at room temperature (UBIQEN, AIST) ○ZHU, Qi-long; XU, Qiang

3PA-086[#] Carbon Nanodot-Immobilized Metal Nanoparticles as Highly Active Catalysts for Hydrogen Generation from Hydrazine in Aqueous Solution (UBIQEN, AIST) ○SUN, Jianke; XU, Qiang

3PA-087 Preparation of iridium-graphene oxide composite and application to selective hydrogenation catalyst (RCIS, Okayama Univ.) ○NISHIMURA, Kengo; NISHINA, Yuta

3PA-088 Hydrodeoxygenation of Phenols into Cyclohexanes under Mild Conditions by Zeolite-Supported Platinum Catalysts (Grad. Sch. Sci., Eng., Ehime Univ.) OHTA, Hidetoshi; ○YAMAMOTO, Kentaro; HAYASHI, Minoru; WATANABE, Yutaka

3PA-089 Studies of the dissociation activities of methane and carbon dioxide over supported nickel catalysts by pulse experiments (Grad. Sch. Sci. Eng., Univ. of Toyama) ○OSAWA, Tsutomu; AGATA, Ryohi

3PA-090 Catalytic Behavior of CeO₂-doped Ni-based Catalysts Prepared from Hydrotaelite for Hydrogen Production by Ammonia Decomposition (Fac. Eng., Oita Univ.; Kyoto Univ. Elements Strategy Initiative for Catalysts and Batteries; CREST, JST) ○ABE, Naruhiko; KAWAGOE, Takahumi; TASAKI, Ryo; SATO, Katsutoshi; NAGAOKA, Katsutoshi

- 3PA-091** Study of the synthesis of lactone with acidic zeolite by infrared spectroscopy (Grad. Sch. Sci., Eng., Yamagata Univ.) ○OTA, Rie; KURIYAMA, Yasunao; NOMURA, Junko; YAMAZAKI, Hiroshi
- 3PA-092** Determination of products in gas phase formed by the reduction of nitrate using formic acid as the reductant over Pd-Sn,Pd-In catalyst. (Sch. Sci., Tokai Univ.) ○SATO, Yuki; MIKAMI, Ikko
- 3PA-093** Catalytic dehydrogenation of formic acid by metal nanoparticles (Toyama Nat. Coll. Technol. General Education) ○TSUMORI, Nobuko; YADAV, Mahendra; ZHU, Qi-long; XU, Qiang
- 3PA-094** Synthesis of Heterogeneous Catalyst Composed of Polyoxometalate and Aluminum Hydroxide Cluster Polycation (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○MIZUNO, Kosuke; UCHIDA, Sayaka
- 3PA-095** Carbonylation of glycerol and epoxides using supported transition metal catalysts (Grad. Sch. Sci., Kyushu Univ.) ○MINAMI, Masato; ISHIDA, Tamao; HAMASAKI, Akiyuki; TOKUNAGA, Makoto
- 3PA-096** Development of new metal oxide photocatalysts for CO₂ reduction using water as an electron donor (Fac. Sci., Tokyo Univ. of Sci.) ○SUGA, Yosuke; SATO, Ko; TAKAYAMA, Tomoaki; IWASE, Akihiko; KUDO, Akihiko
- 3PA-097** CO₂ Reduction over Metal Sulfide Photocathodes with Chalcopyrite Structure under Visible Light Irradiation (Fac. Sci., Tokyo Univ. of Sci.) ○TAKAYAMA, Tomoaki; IWASE, Akihiko; KUDO, Akihiko
- 3PA-098** CO₂ reduction by Z-scheme photocatalyst consisting of metal sulfide and TiO₂ using reduced graphene oxide (Fac. Sci., Tokyo Univ. of Sci.) ○SATO, Ko; TAKAYAMA, Tomoaki; IWASHINA, Katsuya; IWASE, Akihiko; KUDO, Akihiko
- 3PA-099** Development of New Metal Sulfide Photocatalysts for Solar Hydrogen Production (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○YAMAMOTO, Tomoki; KAGA, Hiroshi; IWASE, Akihiko; KUDO, Akihiko
- 3PA-100** Enhancement of photocatalytic properties of visible-light-driven IrO_x/SnNb₂O₆ prepared by a one-step synthesis (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○HORIE, Hirotsuka; IWASE, Akihiko; KUDO, Akihiko
- 3PA-101** Decomposition of an aqueous ammonia solution under visible light irradiation over various photoanodes (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) ○MATSUMOTO, Daisuke; IWASE, Akihiko; KUDO, Akihiko
- 3PA-102** Unique photocatalytic activity of Cu₂O/Cu plasmonic nanostructures prepared by spontaneously-oxidizing the copper surfaces. (Coll. Sci. Tech., Nihon Univ.) ○TSUNENARI, Natsumi; SUGAWA, Kosuke; OTSUKI, Joe
- 3PA-103** Photocatalytic properties of surface-oxidized plasmonic Cu nanostructures (Coll. Sci. Tech., Nihon Univ.) ○FUJIWARA, Saki; SUGAWA, Kosuke; OTSUKI, Joe
- 3PA-104** Synthesis and photocatalytic properties of pyrochlore oxides containing Sn²⁺ ion (GNCT, Chem. and Mater. Sci.) ○TAIRA, Nobuyuki; FUKAZU, Yuhei
- 3PA-105** A water photolysis system composed of organic bilayer photocathode and inorganic photoanode (Grad. Sch. Sci. Tech., Hirosaki Univ.; Chem. Res. Lab., Tokyo Tech; IMRAM, Tohoku Univ.) ○FUKUI, Katsuma; NAGAI, Keiji; KATO, Hideki; ABE, Toshiyuki
- 3PA-106** Photoinduced electron transfer from p-type InP photoelectrode to Ru complex polymer (Toyota Central R&D Labs., Inc.; ACT-C, JST; The Toyota Physical and Chemical Research Institute) ○YAMANAKA, Ken-ichi; SATO, Shunsuke; NAKAMURA, Arai; KAJINO, Tsutomu; MORIKAWA, Takeshi
- 3PA-107** Control of photochemical electron transfer between a Ir(III) complex and a TiO₂ electrode in their hybrids (Grad. Sch. Sci., Eng., Tokyo Tech) ○SUZUKI, Ayako; SAHARA, Go; MAEDA, Kazuhiko; ISHITANI, Osamu
- 3PA-108** Visible light-Induced Highly Efficient Aerobic Oxidation by Platinum Nanoparticles Supported on Tantalum Oxide (RCSE, Osaka Univ.) ○OHARA, Tomoyuki; SAKAMOTO, Hirokatsu; SHIRAISHI, Yasuhiro; HIRAI, Takayuki
- 3PA-109** Overall Water Splitting using Various Cocatalysts-loaded Ag_xLi_xNbO₃ Photocatalysts (Fac. Sci., Tokyo Univ. of Sci.) ○KURAMOCHI, Yoshiaki; IWASE, Akihiko; KUDO, Akihiko
- 3PA-110** Surface Modification and PEC Properties of Core-Shell ZnO-(GaN:ZnO) Nanorods (Grad. Sch. Eng., The Univ. of Tokyo) ○WATANABE, Osamu; MINEGISHI, Tsutomu; HISATOMI, Takashi; ZHONG, Miao; LI, Yanbo; KATAYAMA, Masao; KUBOTA, Jun; JEAN-JACS, Delauney; DOMEN, Kazunari
- 3PA-111** Hydrogen-Evolution by Photocatalyst β-FeSi₂ on Si-powder (Kanagawa Ind. Tech. Ctr. Chemical Engineering) ○AKIYAMA, Kensuke; TAKAHASHI, Ryo; FUNAKUBO, Hiroshi; IRIE, Hiroshi; MATSUMOTO, Yoshihisa
- 3PA-112** Photocatalytic Degradation of Methyl Mercaptan with Silver-Modified Graphitic Carbon Nitride (Ag/g-C₃N₄) under Visible Light (RIEMT, AIST) ○SANO, Taizo; TERAMOTO, Yoshiyuki; HIRAKAWA, Tsutomu; NEGISHI, Nobuaki; HORI, Tomoko
- 3PA-113** Preparation and investigation of Rh-TiO₂ photocatalyst thin film (Coll. Life Sci., Ritsumeikan Univ.) ○SANADA, Tomoe; IWAMOTO, Keita; KOJIMA, Kazuo
- 3PA-114** Photocatalytic activity of LaMg_{1/3}Ta_{2/3}O₂N combined with second photocatalysts in overall water splitting (Grad. Sch. Eng., The Univ. of Tokyo) ○PAN, Zhenhua; HISATOMI, Takashi; PAN, Chengsi; TAKATA, Tsuyoshi; DOMEN, Kazunari
- 3PA-115** Fabrication of metal nitride electrodes by arc plasma deposition method and their photoelectrochemical properties (Sch. Eng., Kyoto Univ.) ○MORIMOTO, Naoki; HIGASHI, Masanobu; ABE, Ryu
- 3PA-116** Photoelectrochemical CO₂ reduction using metal-complex photocatalyst immobilized on NiO electrode (Grad. Sch. Sci., Eng., Tokyo Tech) ○SAHARA, Go; ABE, Ryu; MORIKAWA, Takeshi; SAKANO, Mitsuru; KAJINO, Tsutomu; MAEDA, Kazuhiko; ISHITANI, Osamu
- 3PA-117** Selective oxidation of sulfide to sulfoxide over tungsten(VI) oxide photocatalyst under visible light irradiation (Kinki Univ.) ○NISHINO, Yuri; TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 3PA-118** Synthesis of various gold deposited metal oxides by colloidal photodeposition method (Fac. Sci. Eng., Kinki Univ.) ○FUKUI, Makoto; TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 3PA-119** Hydrogen production by photocatalytic reforming of glycerol aqueous solution using metal nanoparticle supported on TiO₂ (Sch. Eng., Osaka Pref. Univ.; IMR, Tohoku Univ.) ○NAKANISHI, Hodaka; MIZUKOSHI, Yoshiteru; OKITSU, Kenji; HORI, Fuminobu; IWASE, Akihiko; MASAHASHI, Naoya
- 3PA-120** Reduction of carbon dioxide over titanate photocatalysts with various morphology (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○FUKUWO, Naoto; SATO, Masumi; MORIKAWA, Takeshi; KAZINO, Tsutomu; SAKANO, Mitsuru; MATSUMOTO, Shinito; HIRATA, Hirohito; YOSHIDA, Hisao
- 3PA-121** Mechanism for High Activity of Photocatalytic Imine Synthesis on P25 Titanium Dioxide Photocatalyst (RCSE, Osaka Univ.; Grad. Sch. Eng. Sci., Osaka Univ.; CRC, Hokkaido Univ.) ○KATAYAMA, Miyu; HIRAKAWA, Hiroaki; SHIRAISHI, Yasuhiro; OHTANI, Bunsho; HIRAI, Takayuki
- 3PA-122** Decomposition process of organic matters by TiO₂ under UV light irradiation studied by far-ultraviolet spectroscopy. (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○KURAWAKI, Yuji; TANABE, Ichiro; OZAKI, Yukihiko
- 3PA-123** Partial Oxidation of Benzylic Substrates to Aromatic Ketones under a TiO₂ Photocatalytic reaction (Osaka Prefecture Univ. Coll. of Tech.) ○MIYAGAWA, Kazuya; HIGASHIDA, Suguru; MATSUMURA, Michio
- 3PA-124** Investigation of the oxidative cleavage of *trans*-stilbene using a TiO₂ photocatalyst. (Osaka Prefecture Univ. Coll. of Tech.) ○MIYAKE, Teruyuki; HIGASHIDA, Suguru; MATSUMURA, Michio
- 3PA-125** Effect of the Au cocatalyst on the photocatalyzed water oxidation accompanied with Fe³⁺ reduction over TiO₂ photocatalyst (Grad. Sch. Fac. Sci. Technol., Tokyo Univ. of Sci.; ETRI, AIST) ○TERASHIMA, Naohiro; MISEKI, Yugo; FUKU, Kojiro; GUNJI, Takahiro; SAYAMA, Kazuhiro
- 3PA-126** Photoelectrochemical Properties of SrTiO₃ Electrodes Prepared by Particle Transfer Method (Grad. Sch. Eng., The Univ. of Tokyo) ○HAM, Yeilin; MINEGISHI, Tsutomu; HISATOMI, Takashi; KUBOTA, Jun; DOMEN, Kazunari
- 3PA-127** Photocatalytic hydrogenation of carbon-carbon unsaturated bond over titanium(IV) oxide. (Fac. Sci. Eng., Kinki Univ.) ○NOJIMA, Taketoh; HIGA, Megumi; ITO, Tomohiko; OKUBO, Yuki; IMAMURA, Kazuya; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 3PA-128** Photocatalytic transformation of organic compounds having furyl group over titanium(IV) oxide. (Kinki Univ.) ○SETO, Naoko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

Environmental and Green Chemistry

- 3PA-131** Possibility of Acceleration for Nitrosation reaction of Amines under Freezing (Grad. Sch. Eng., Osaka Pref. Univ.) ○KITADA, Kodai; TAKENAKA, Norimichi
- 3PA-132** Determination of solubility of HFC-32(CH₂F₂) in artificial seawater (AIST Research Institute for Environmental Management Technology) ○KUTSUNA, Shuzo
- 3PA-133** Investigation of the Prediction Method of the Pesticide Concentration in Paddy Field by AIST-SHANEL (Hokkaido Research Organization) ○KARIYA, Ryo; TAHARA, Ruriko
- 3PA-134** Organic matters within PM_{2.5} collecting at Sapporo (Hokkaido Research Organization) ○AKUTAGAWA, Tomoko; OTSUKA, Hideyuki; AKIYAMA, Masayuki
- 3PA-135** Decomposition of asbestos by using an insolubilization agent of heavy metals under room temperature (Grad. Sch. Sci. Eng., Saga Univ.) ○TABATA, Masaaki; SHONO, Akifumi
- 3PA-136** Removal of branched alkylphenols by polyphenoloxidase and chitosan (Coll. Industrial Tech., Nihon Univ.) ○KAWABATA, Masahiro; KASHIWADA, Ayumi; YAMADA, Kazunori
- 3PA-137** Speciation analysis of Cu ion in river water (Fac. Eng., KAIT) ○TAKAMURA, Takeji; TOKUTAKE, Manabu
- 3PA-138** Measurement of concentration of gaseous pollutants and PM_{2.5} in Ho Chi Minh City, Vietnam(2) (Grad. Sch. Eng., Osaka Pref. Univ.) ○TAKENAKA, Norimichi; YOSHIDA, Arata; KOIDE, Tetsuya; TANAKA, Moeko; TANAKA, Rie; NISHINO, Atsushi; TO, Thi Hien; LE, To Thanh
- 3PA-139** A study on the removal of soil groundwater cesium ion using Electrokinetic process (Grad. Sch. Env. Sci., Hokkaido Univ.) ○MIYAMURA, Ryosuke; AKEMOTO, Yasuhiro; TANAKA, Shuniz

- 3PA-140** Advanced treatment of polluted water containing recalcitrant organic compounds by the hybrid process of Fenton and hydrothermal oxidation methods (Grad. Sch. Eng., Osaka City Univ.) ○TAKEUCHI, Shuhei; KOMETANI, Noritsugu
- 3PA-141** The development of Fenton-like catalysts enhancing the hydrothermal oxidation of recalcitrant chlorinated organic compounds (Grad. Sch. Eng., Osaka City Univ.) ○MINAMIDANI, Naoki; KOMETANI, Noritsugu
- 3PA-142** The cell culture and the protoplastization of a halotolerant plant (Fac. Eng., KAIT) ○MATSUSHITA, Yuta; KOBAYASHI, Kenta; SAITO, Takashi
- 3PA-143** Basic study of cleaning effects in cleaning of micro-bubble filled with ultrasonic wave (TMCIT Monozukuri Department) IKEDA, Hiroshi; ○KATSUKI, Shu; IKEDA, Ikumi; KURITA, Katumi; AOKI, Shigeru; HIRAI, Seiji
- 3PA-144** Synthesis of Super-microporous Silica with High Dynamic Adsorption / Desorption Properties of Toluene (Tri, Osaka) ○DOHSHI, Satoru; TOYAO, Takashi; HORIUCHI, Yu; MATSUOKA, Masaya
- 3PA-145** Study of relationship between physical and chemical property and toxicity toward *Bacillus subtilis* subsp. *subtilis* of halogenated anilines (Sch. Sci., Tokai Univ.) ○NAKAGAWA, Sachiko; SAKUMA, Tsubasa; ISHIHARA, Yoshimi; TAKANO, Jiro
- 3PA-146** Hydrolysis behavior of coupling compounds between tetrahalobisphenol A and humic acid via the catalytic oxidation with Fe(III)-phthalocyanine catalyst (Grad. Sch. Eng., Hokkaido Univ.) ○KODAMA, Ritsu; MIYAMOTO, Takafumi; ZHU, Qianqian; IGARASHI, Mami; FUKUSHIMA, Masami
- 3PA-147** Monopersulfate oxidation of 2,4,6-tribromophenol using non-heme catalysts (Sch. Eng., Hokkaido Univ.) ○IGARASHI, Mami; ZHU, Qianqian; MIYAMOTO, Takafumi; KODAMA, Ritsu; FUKUSHIMA, Masami
- 3PA-148[#]** Influence of humic substances on the photodegradation of bromophenols catalyzed by metalloporphyrins (Grad. Sch. Eng., Hokkaido Univ.) ○ZHU, Qianqian; MIYAMOTO, Takafumi; IGARASHI, Mami; KODAMA, Ritsu; FUKUSHIMA, Masami
- 3PA-149** Synthesis of cellulose silica hybrid films by sol-gel method and photo irradiation, and the development of eco-friending colored film using latent pigment for recycling bottle (Shibaura Inst. of Tech. Graduate School of Applied Chemistry) ○SHIRASAWA, Tomoki; OHISHI, Tomoji
- 3PA-150[#]** Benzene functionalisation using ethers over metal loaded titanium oxide photocatalysts. (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○TYAGI, Akanksha; YOSHIDA, Hisao; MATSUMOTO, Tomoya
- 3PA-151** Relationship with toxicity and physicochemical properties of sulfophenyl carboxylates (SPCs) in water (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○SHIMODAIRA, Yosuke; SUN, Zhenfeng; OYA, Masaru; OTANI, Hiroyuki

Theoretical Chemistry, Cheminformatics, and Computational Chemistry

Electronic Structure

- 3PA-153** Description precision of the interaction between molecules in ionic liquids; comparison of the Classical MD, quantum chemistry calculation, and EFP (Grad. Sch. Human. Sci., Ochanomizu Univ.) ○KUROKI, Nahoko; MORI, Hirotoshi
- 3PA-154** Similarity and difference between halogen bond and hydrogen bond: ab initio MO calculation, effective fragment potential and Fourier transform microwave spectroscopy (Grad. Sch. Human. Sci., Ochanomizu Univ.) ○KAWASHIMA, Asaki; KUROKI, Nahoko; MORI, Hirotoshi
- 3PA-155** Theoretical structure and the electronic state of flutovaxamine (Shohoku College) ○ODIA, Kei; ITO, Etsuro
- 3PA-156** Theoretical study of normal vibration of lanthanide trihalides with the consideration of anharmonicity (Grad. Sch. Human. Sci., Ochanomizu Univ.) ○MATSUDA, Aya; KLOBUKOWSKI, Mariusz; MORI, Hirotoshi
- 3PA-157** TD-DFT calculations on excited states of TADF molecular systems (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○IWASAKI, Toya; MORIHASHI, Kenji
- 3PA-158** Structures and electronic states of iron(III)porphyrin-thiolate complexes (Coll. Sci., Ibaraki Univ.; Grad. Sch. Pharm. Sci., Nagoya City Univ.) ○YOSHIMURA, Takayoshi; UCHIDA, Hikaru; OCHIAI, Jun; SUZUKI, Hiroshi; KONDO, Keisuke; HIGUCHI, Tsunehiko; MORI, Seiji
- 3PA-159** Novel relativistic open-shell wavefunction based on time-reversal symmetry: KROHF method (Sch. Advanced Sci. Eng., Waseda Univ.) ○NAKAMURA, Ryota; NAKANO, Masahiko; SEINO, Junji; NAKAI, Hiromi
- 3PA-160** Effective adiabatic potential curves of 1D H₂ molecule within the extended multi-configuration time-dependent Hartree-Fock method (Grad. Sch. Sci., The Univ. of Tokyo) ○KATO, Tsuyoshi; IDE, Yoshihiro; YAMANOUCHI, Kaoru
- 3PA-161** Theoretical study on gamma-ray spectra from electron-positron annihilation: application to cyclic compounds (Sch. Advanced Sci. Eng., Waseda Univ.) ○IWANADE, Toru; IKABATA, Yasuhiro; NAKAI, Hiromi

Chemical Reaction

- 3PA-162** Theoretical study of ethylene oxidation mechanism catalyzed by Pt nanoparticles supported on mesoporous silica (CRC, Hokkaido Univ.) ○MIYAZAKI, Ray; NAKATANI, Naoki; HASEGAWA, Junya; HARA, Kenji; FUKUOKA, Atsushi

Bio-related

- 3PA-163** Density Functional study on Proton Transfer from E203 to E148 in the EcCIC antiporter (Grad. Sch. Eng., Mie Univ.) ○MITANI, Masaki; SHIOMI, Naoto; YOSHIOKA, Yasunori
- 3PA-164** Theoretical study on precursor of oxygen molecule formed during the S₄ → S₀ transition of OEC (Fac. Eng., Mie Univ.) ○ICHINO, Tomoya; MITANI, Masaki; YOSHIOKA, Yasunori
- 3PA-165** QM/MM Modeling Study on the Acylation Reaction of a Class A β-lactamase with β-lactam Antibiotic Benzylpenicillin (Sch. Sci. Eng., Univ. of Tsukuba) ○KOMAI, Miho; MORIHASHI, Kenji
- 3PA-166** Analysis of the dynamics of the HIV-1 antibody PGT128 and glycoprotein gp120 complex by MD simulation (Coll. Liberal Arts Sci., Kitasato Univ.) ○NOTO, Kaori
- 3PA-167** Conformational Search of Amyloid beta Peptide (Sch. Pharm., TUPLS) ○YOKOJIMA, Satoshi
- 3PA-168** Quantum Chemical Study of Absorption Spectrum of the Charge Transfer Intermediate in D-Amino Acid Oxidase Reaction (Hyogo Coll. Med. Department of Chemistry) ○FUKUSHIMA, Kazuaki; ESAKI, Hiroyoshi; NISHIKIMI, Morimitsu
- 3PA-169** Interaction Analysis on Transmembrane Domain in G-Protein Coupled Receptor (Fac. Pharm., Yasuda Women's Univ.) ○SHIMODO, Yasuyo; SHIBATA, Akira

Materials

- 3PA-170** A Molecular Orbital Study on the Reaction Rate of the Internal Protonation of Cryptand [1.1.1] (Sch. Sci., Tokai Univ.) ○ISHIKAWA, Shigeru
- 3PA-171** Searching for relative configurations of molecules in TTF-TCNQ (Grad. Sch. Sys. Eng., Wakayama Univ.) ○KATSUNO, Naoya; YAMAKADO, Hideo; OHNO, Koichi

Simulation

- 3PA-172** Biomolecular Computations toward the Prediction of Enantioselectivity in Enzyme-Catalyzed Reactions (Okayama Univ. of Sci. Research Institute of Natural Sciences) ○YAGI, Yoichiro; KIMURA, Takatomo; KAMEZAWA, Makoto; NAOSHIMA, Yoshinobu
- 3PA-173** Vibrational state analysis of low barrier hydrogen-bonded cluster H₃O₂⁺ with vibrational quantum Monte Carlo method (International Coll. Arts Sci., Yokohama City Univ.) ○NAKAYAMA, Ryota; KITA, Yukiumi; TACHIKAWA, Masanori
- 3PA-174** Screening of inhibitors by molecular docking and binding free energy (Coll. Sci. Eng., Kanazawa Univ.) ○SAITO, Hiroaki; KAWAGUCHI, Kazutomo; NAGAO, Hidemi

Saturday, March 28, AM

(12 : 30~14 : 00)

Physical Organic Chemistry Structures and Properties

- 3PB-001** Synthesis and Structure of Helicates Made of Open-Chain π-Conjugated Hexapyrroles (Grad. Sch. Sci., Kobe Univ.) ○NGUYEN, Thi Hien Thuy; SETSUNE, Jun-ichiro
- 3PB-002** Synthesis and conformational analysis of alternately N-alkylated aromatic amide oligomers (Grad. Sch. Of Humanities and Sci., Ochanomizu Univ.) ○URUSHIBARA, Ko; MASU, Hyuma; AZUMAYA, Isao; TANATANI, Aya
- 3PB-003** Design and Utilization of Planar Chiral, Cyclic Compounds Triggered by Hydrogen-Bonding [4] Syntheses of Possible 8-Figured Linear Molecules and Structural Analysis in Solution (Fac. Eng., Tokyo Univ. of Sci.) ○ISHII, Takahiro; HANDA, Shinya; GOTO, Hidetoshi; SUGIMOTO, Hiroshi
- 3PB-004** Relationship between molecular structures and dynamic viscoelastic properties in a cholesteric phase (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○SAMATA, Yugo; SHIMADA, Osamu; HATANO, Tomohiro; KANEKO, Kosuke; HANASAKI, Tomonori
- 3PB-005** Synthesis of Seesaw-Type Molecular Balances and Application as a Molecular Switch (Grad. Sch. Human. Sci., Ochanomizu Univ.) ○YAMAMOTO, Natsuo; YAMADA, Shinji
- 3PB-006** Diels-Alder reaction of ketolactam open-cage fullerenes (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○TANAKA, Teruhiko; NAKAMURA, Yoshihiro; NOJIRI, Ryuichi; SAWAI, Ryouhei; KABE, Yoshio
- 3PB-007** Synthesis and Properties of Trioxotriangulene Derivatives with

- Alkoxy carbonyl Groups (Aichi Inst. of Tech.; Sch. Eng., Osaka Univ.; CREST, JST) ○KAGIYA, Daisuke; SUGAHARA, Akira; MORITA, Yasushi
- 3PB-008** Design and Synthesis of Open-shell Electron Acceptor based on Triangulene with Dicyanomethylene Groups (Aichi Inst. of Tech. Applied Chemistry Course, Faculty of Engineering; CREST, JST) ○ANDO, Sayaka; NISHIDA, Shinsuke; MORITA, Yasushi
- 3PB-009** Studies on Synthetic Methods of Open-shell Molecular System Using (Nitronyl Nitroxide)-Gold(I) Complex (Fac. Sci., Osaka City Univ.) ○KIRA, Sayaka; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji
- 3PB-010** Synthesis and Polymerization of [3.3](3,9)Carbazolophane Derivatives with Rigid Structure (Osaka Kyoiku Univ.) ○TORU, Yashima; KEITA, Tani
- 3PB-011** Synthesis and Polymerization of [3.5](3,9)Carbazolophane Derivatives (Osaka Kyoiku Univ.) ○ASAI, Miho; TANI, Keita
- 3PB-012** Reaction of fullerene anions with benzyl bromide derivatives (Dept. of Chem., Tokyo Gakugei Univ.) ○AKITA, Saeka; MAEDA, Yutaka; YAMADA, Michio; SUZUKI, Mitsuaki
- 3PB-013** Selectivity between Covalent Bond Formation and Single-Electron Transfer in the Reaction of Alkylated C₆₀ Chloride and Nucleophiles (Grad. Sch. Eng., Mie Univ.) ○MIURA, Yuta; KITAGAWA, Toshikazu
- 3PB-014** Synthesis of Fullerene Derivatives via the Electrophilic Reaction of Alkylated C₆₀ Cation (Fac. Eng., Mie Univ.; Grad. Sch. Eng., Mie Univ.) ○OKADA, Tomoya; KITO, Kazuhiro; KITAGAWA, Toshikazu
- 3PB-015** Synthesis of sigmalene (Sch. Sci., Osaka Univ.) ○SAHARA, Keisuke; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi
- 3PB-016** Investigation on Molecular Geometry, Electronic Structure, and Synthesis of Naphtho-fused 48 π-Conjugated Cyclododecathienylene (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○OHTA, Eisuke; OWADA, Takuma; MATSUI, Yasunori; IKEDA, Hiroshi
- 3PB-017** Synthesis and properties of cyclic oligopyrroles. (Tokyo Metropolitan Univ. Urban Liberal Arts) ○SUZUKI, Shugo; TAKASE, Masayoshi; NOMURA, Kotohiro; NISHINAGA, Tohru
- 3PB-018** Synthesis of antiaromatic ring by using the strain energy of non-planar pi-conjugated system (Sch. Sci., Osaka Univ.) ○SHIMIZU, Kazuto; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi
- 3PB-019** Synthesis and Properties of 9,10-Dihydro-*as*-indaceno[3,2-*b*:6,7-*b'*] dithiophene Derivatives (Grad. Sch. Eng., Osaka Univ.) ○NABE, Akino; MIYOSHI, Hirokazu; NOBUSUE, Shunpei; TOBE, Yoshito
- 3PB-020** Synthesis and Property of Hexaphyrin-Bridged Extended Tetrathiafulvalene (Fac. Eng., Kyushu Univ.) ○YAMASUMI, Kazuhisa; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 3PB-021** Construction of Assemblies with the use of association of Oxidized Species of Thiophene-Pyrrole Oligomers (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.; Sch. Sci., Kitasato Univ.) NISHINAGA, Tohru; ○AKAHANE, Takahiro; KAGEYAMA, Takuya; TAKASE, Masayoshi; NOMURA, Kotohiro; MAZAKI, Yasuhiro
- 3PB-022** Synthesis of a perinaphthothioindigo conjugate having two porphyrins bridged with ethynyl group (Grad. Sch. Med., Eng., Univ. of Yamanashi) ○SATO, Masaki; OGAWA, Kazuya
- 3PB-023** A convenient synthesis for cyclic oligothiophene macrocycles by sulfides (Sch. Sci., Kitasato Univ.) ○HONDA, Yoshiki; HASEGAWA, Masashi; INOUE, Ryota; MAZAKI, Yasuhiro
- 3PB-024** Synthesis and properties of Doubly N-confused hexaphyrin (1.1.0.1.1.0) (Fac. Eng., Kyushu Univ.) ○SHIMOMURA, Keito; OGASAHARA, Koki; HISAMUNE, Yutaka; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 3PB-025** Synthesis and Proton-responsibility of Porphyrin-Lewis Base Derivatives Bearing Anthracene Spacer (Univ. of Toyama Graduate School of Science and Engineering) YAMAMOTO, Junya; KEMPE, Hideto; YOSHINO, Junro; HAYASHI, Naoto; ○HIGUCHI, Hiroyuki
- 3PB-026** Synthesis and Properties of Extended pi-electronic Conjugated Porphyrin Derivatives Carrying Anthracene Spacer (Grad. Sch. Sci. Eng., Univ. of Toyama) ○KEMPE, Hideto; YAMAMOTO, Junya; YOSHINO, Junro; HAYASHI, Naoto; HIGUCHI, Hiroyuki
- 3PB-027** A Synthetic Approach for the Construction of Armchair-Type Carbon Nanoribbon (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○SEKIGUCHI, Ryuta; IMAI, Kanae; SHIBATA, Nao; MIURA, Masayoshi; KAWAKAMI, Jun; ITO, Shunji
- 3PB-028** Synthesis and physical properties of cyclophanes with dibenzylideneacetone units and related π-conjugated compounds (Sch. Eng., Univ. of Hyogo) ○SHIOKI, Rumi; NISHIDA, Jun-ichi; KAWASE, Takeshi
- 3PB-029** Synthesis of Macrocyclic [9]Cycloparaphenyleneacetylene Derivatives and Their Properties (Grad. Sch. Eng., Kyoto Univ.) MIKI, Koji; ○SAIKI, Kenzo; MATSUSHITA, Tsuyoshi; OHE, Kouichi
- 3PB-030** Synthesis and structural properties of dibromo[3.3]paracyclophanes (Oita Univ. Faculty of Education and Welfare Science) ○SHIBAHARA, Masahiko; WATANABE, Motonori; GOTO, Kenta; SHINMYOZU, Teruo
- 3PB-031** Synthesis and spectroscopic properties of spirobiacridine derivatives carrying electron withdrawing group (Fac. Sci. Tech., Keio Univ.) ○HOSODA, Takumi; TADA, Reiki; SUZUKI, Ryouta; YOSHIOKA, Naoki; MIURA, Youhei
- 3PB-032** Synthesis and properties of new photochromic molecules having two spiropyran units (Grad. Sch. Sci., Kitasato Univ.) ○YAMAGISHI, Misaki; HASEGAWA, Masashi; MAZAKI, Yasuhiro
- 3PB-033** Development of naphthoquinone pigments having heterocyclic unit (Fac. Sci. Eng., Kinki Univ.) ○SAKO, Akihiro; AKIYAMA, Hirota; TAJIMA, Nobuo; KURODA, Reiko; IMAI, Yoshitane
- 3PB-034** Development of novel benzene unit-linked guaiazulene derivative (Fac. Sci. Eng., Kinki Univ.; NIMS National Institute for Materials Science; Res. Inst. Sci. Technol., Tokyo Univ. of Sci.) ○OKAZAKI, Mamoru; OKUBO, Ryou; TAJIMA, Nobuo; KURODA, Reiko; TAKEKUMA, Shinichi; IMAI, Yoshitane
- 3PB-035** Synthesis and characterization of novel disc-like compounds constructed by azulene derivatives with long alkyl chains (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○NAKANISHI, Daichi; SEKIGUCHI, Ryuta; KAWAKAMI, Jun; ITO, Shunji
- 3PB-036** A new synthetic method of thienoquinoid derivative and their physical properties (Grad. Sch. Eng., Univ. of Hyogo) ○INOUE, Nozomu; KAWASE, Takeshi; NISHIDA, Jun-ichi
- 3PB-037** Synthesis and spectroscopic properties of pyrene and perylene diimide dimers with an azobenzene linker (Fac. Sci. Tech., Keio Univ.) ○INAYA, Ryutarou; SAKAI, Hayato; HASOBE, Taku
- 3PB-038** Synthesis and Photophysical Properties of 1-(1-Imidazolyl)Carbazoles (Osaka Kyoiku Univ.) HORI, Kazushige; ○UCHIDA, Kazuki; TANI, Keita
- 3PB-039** Reaction of tetrabenzofluorene derivative bearing (2,2-dicyanoethenyl)phenyl groups with several nucleophiles and its application to fluorescent probe (Sch. Eng., Univ. of Hyogo) ○KIMURA, Yusuke; NISHIDA, Jun-ichi; KAWASE, Takeshi
- 3PB-040** Influence on Photoexcited Dual Emission by Substituents of 2,2'-Biimidazole Derivatives (Grad. Sch. Eng., Chiba Univ.) MATSUMOTO, Shoji; ○MATSUSHIMA, Yoshiki; AKAZOME, Motohiro
- 3PB-041** Synthesis, property and reactivity of diacene[1,2-*b*:1',2'-*d*] thiophene-3,4,9,10-tetracarboxylic diimides (Sch. Eng., Univ. of Hyogo) ○KAWAJIRI, Ikumi; OZOE, Hiroaki; NISHIDA, Jun-ichi; KAWASE, Takeshi
- 3PB-042** Synthesis and physical properties of molecular aggregates using a trifluoromethylphenyl substituted phthalimide unit (Sch. Eng., Univ. of Hyogo) ○KITA, Yasuyuki; NISHIDA, Jun-ichi; OHURA, Hokuto; KAWASE, Takeshi; TAKADA, Noriyuki; SATO, Hiroyasu; YAMASHITA, Yoshiro
- 3PB-043** Synthesis and properties of Schiff-base metal complex using diaminothiadiazole as starting material (Fac. Sci. Tech., Keio Univ.) ○NISHIKAWA, Daisuke; NAKAGOME, Shin; MIURA, Youhei; YOSHIOKA, Naoki
- 3PB-044** Reaction of 3-(p-formylphenyl)diphenanthofuran with several nucleophiles and its application to fluorescent probe. (Grad. Sch. Eng., Univ. of Hyogo) ○MORIMOTO, Takayuki; NISHIDA, Jun-ichi; KAWASE, Takeshi
- 3PB-045** Red Light Emitting System Based on Aggregation of Donor Acceptor Dyes Bearing Ionic Functional Groups (KNCT; Nagaoka Univ. of Tech.) ○INAKAZU, Atsushi; TSUKIJI, Shinya; ISHI-I, Tsutomu
- 3PB-046** Synthesis of pyrrolopyrrole-aza-BODIPY toward near-infrared absorption and fluorescence (Fac. Eng., Kyushu Univ.) ○KARASAKI, Hideaki; SHIMIZU, Soji; FURUTA, Hiroyuki
- 3PB-047** Synthesis and Evaluation of Pyrrolopyrrole Aza-BODIPY Derivatives Having A Strong Absorption Band in Near-Infrared Region (Grad. Sch. Eng., Kyoto Univ.) MIKI, Koji; ○ENOMOTO, Akane; SHIMIZU, Soji; OHE, Kouichi
- 3PB-048** Synthesis and physical properties of dibenzoheteroles and dithienoheteroles with aryl substituents at 2-position. (Sch. Eng., Univ. of Hyogo) ○ITOHO, Takaaki; NISHIDA, Jun-ichi; KAWASE, Takeshi; NAGAI, Takumi; YAMASHITA, Yoshiro
- 3PB-049** Synthesis of new phthalimide derivative from poly-halogenated phthalimides (Grad. Sch. Eng., Univ. of Hyogo) ○IRIE, Hironobu; NISHIDA, Jun-ichi; KAWASE, Takeshi
- 3PB-050** Synthesis of novel hydrogen-bonded charge-transfer complexes coordinated with substituted deazapurine ligands. (Sch. Sci., Osaka Univ.) ○SEO, Shiori; HIRAO, Yasukazu; NISHIUCHI, Tomohiko; KUBO, Takashi
- 3PB-051** Studies on Dye Sensitized Solar Cells Using Nickel Salen Complexes (Grad. Sch. Sci., Osaka City Univ.; Grad. Sch. Eng., Shizuoka Univ.) ○UEDA, Yuki; SUZUKI, Shuichi; KOZAKI, Masatoshi; ISO, Kazuki; KONNO, Akinori; OKADA, Keiji
- 3PB-052** Synthesis and Electrochemical Properties of 1,3-Dithiole[5]dendralene Derivatives (Grad. Sch. Sci., Eng., Ehime Univ.) ○OHTA, Atsuko; KAWASAKI, Yuji; UEDA, Masafumi; MISAKI, Yohei
- 3PB-053** Synthesis of diphenyldihydroacridine derivative carrying bulky substituents and its physicochemical properties of oxidized product (Fac. Sci. Tech., Keio Univ.) ○MIYAMOTO, Keisuke; ADACHI, Kouki; SUZUKI, Ryouta; MIURA, Youhei; YOSHIOKA, Naoki
- 3PB-054** Synthesis of spiro-junctioned biradicals (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) KANETOMO, Takuya; ISHII, Norio; ○ISHIDA, Takayuki
- 3PB-055** Gelation and molecular orientation control of rod-like radical liquid crystals using chiral diamagnetic organic gelators (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○TAKEMOTO, Yusa; UCHIDA, Yoshiaki; SUZUKI, Katsuki; SHIMONO, Satoshi; KATO, Tatsuhisa; YAMAUCHI, Jun; TAMURA, Rui

- 3PB-056** Crystal Structure of Monobrominated Trioxotriangulene Neutral Radical (Aichi Inst. of Tech. Applied Chemistry Course, Faculty of Engineering; Grad. Sch. Sci., Osaka Univ.; CREST, JST) ○TORII, Takeshi; YAMADA, Chiaki; MURATA, Tsuyoshi; MORITA, Yasushi
- 3PB-057** Preparation and magnetic properties of discotic biradical liquid crystalline compound (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○TAGUCHI, Koji; SUZUKI, Katsuki; SINGH, Devendra; DMITRY, Mazhukin; IGOR, Grigor'ev; TAMURA, Rui
- 3PB-058** Synthesis of 1,3,5-triphenyl-6-oxoverdazyl derivatives carrying ethynyl group and their physicochemical properties. (Fac. Sci. Tech., Keio Univ.) ○HARUKI, Akihito; MIURA, Youhei; YOSHIOKA, Naoki
- 3PB-059** Synthesis and property of benzotriazinyl derivatives carrying ethynyl group (Fac. Sci. Tech., Keio Univ.) ○SHIZUYA, Tadaaki; TAKAHASHI, Yusuke; MIURA, Youhei; YOSHIOKA, Naoki
- 3PB-060** Structure and Magnetic Properties of complexes prepared from organic ammonium salts and Cu(II) ion. (Josai Univ. Graduate School of Science) ○SASAKI, Syouri; AKITA, Motoko
- 3PB-061** Research on the nitroxide radicals that adsorbed to the porous compound. (Grad. Sch. Integrated Basic Sci., Nihon Univ.; Coll. Hum. Sci., Nihon Univ.) ○AKINIWA, Kento; KOBAYASHI, Hirokazu; IWAHORI, Fumiya
- 3PB-062** Syntheses, structures and properties of nitroxide radicals that bearing several hydrogen-bonding sites. (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○SAKAI, Go; IWAHORI, Fumiya
- 3PB-063** Structure-property relation in asymmetrically substituted TBTT derivatives I : Formation of bilayer structures by alkyl substitution (FLEC, AIST) ○MINEMAWARI, Hiromi; INOUE, Satoru; YAMADA, Toshikazu; KUMAI, Reiji; TANAKA, Mutsuo; HASEGAWA, Tatsuo
- 3PB-064** Structure-property relation in asymmetrically substituted TBTT derivatives II : Alkyl/phenyl-substitution effects on solubility (FLEC, AIST) ○INOUE, Satoru; MINEMAWARI, Hiromi; CHIKAMATSU, Masayuki; TSUTSUMI, Jun'ya; YAMADA, Toshikazu; HORIUCHI, Sachio; TANAKA, Mutsuo; KUMAI, Reiji; HASEGAWA, Tatsuo
- 3PB-065** Solution-processable photoprecursors of hole-transporting materials for Multilayer Organic Photovoltaic Films (Grad. Sch. Mat. Sci., NAIST) ○NAKAUCHI, Aki; SUZUKI, Mitsuharu; ARATANI, Naoki; YAMADA, Hiroko
- 3PB-066** Synthesis and properties of fullerene derivatives linked with an α -diketone-type photoprecursor of anthracene (Grad. Sch. Mat. Sci., NAIST) ○KAWANOUE, Takahiro; SUZUKI, Mitsuharu; ARATANI, Naoki; YAMADA, Hiroko
- 3PB-067** The syntheses and the evaluation of aggregation induced emission properties of BODIPYs with alkylamino group (FIRST, Konan Univ.) ○MATSUMOTO, Ai; KAWAMURA, Koji; MURASHIMA, Takashi
- 3PB-068** Relation between fluorescence changes due to nanoparticle formation and the crystal formation process of organic molecules with aggregation induced enhanced emission (Shinshu Univ. Graduate school of education) ○FUJIMORI, Jun-ichi; ITO, Syoji; MIYASAKA, Hiroshi; ITO, Fuyuki
- 3PB-069** Synthesis of multiply N-confused calix[n]phyrin boron complexes and their photophysical property (Fac. Eng., Kyushu Univ.) ○JONO, Keisuke; HIROSAWA, Ryujii; OMAGARI, Toshihiro; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 3PB-070** Development of fast spin-state switching system (Fac. Sci., Hiroshima Univ.) ○SHIMOKAWA, Chie; HATANO, Sayaka; ABE, Manabu
- 3PB-071** Solid-state ESIPT luminescence of disubstituted phenylimidazopyridine derivatives (IIS, The Univ. of Tokyo) ○KATO, Taku; YOSHIKAWA, Isao; HOUJOU, Hirohiko; MUTAI, Toshiaki
- 3PB-072** Studies on the excited state dynamics of cyclodextrin-aromatic compound complex by our original high sensitive/high time resolve Circular Dichroism (CD) measurement system (IMRAM, Tohoku Univ.) ○KURONUMA, Makoto; ARAKI, Yasuyuki; SANO, Yutaka; SAKAMOTO, Seiji; WADA, Takehiko
- 3PB-073** Chiral sensing and size discrimination of anions by luminescent macrocyclic octadentate cyclen-lanthanide complexes (Grad. Sch. Sci., Osaka City Univ.) ITO, Hiroshi; ○KOBORI, Shuji; MIYAKE, Hiroyuki; SHINODA, Satoshi
- 3PB-074** Carboxylic Acid Recognition of a Diamidine Having 1,8-Diarylanthracene Unit (KIT) KUSUKAWA, Takahiro; ○UMEDA, Takehiro; ARAMOTO, Hiroki; HARADA, Toshiro
- 3PB-075** Synthesis and properties of bis(1,3-benzodithiole)-type redox-responsive hosts bearing aromatic rings as a guest binding site (Fac. Sci., Shinshu Univ.) ○HIRABAYASHI, Yoko; OHTA, Akira
- 3PB-076** Synthesis and Properties of Redox-responsive Molecular Tweezers with Triphenylene Units (Fac. Sci., Shinshu Univ.) ○HARA, Shinichi; OHTA, Akira
- 3PB-077** Collection of metal ions from water by crystals of calix[4]arene diphosphonic acid and its derivative (Grad. Sch. Eng., Tohoku Univ.) ○SUMIDA, Sahoko; MOROHASHI, Naoya; HATTORI, Tetsutaro
- 3PB-078** Design of novel receptors based on asymmetrical biaryl skeleton (Grad. Sch. Sci., Eng., Yamagata Univ.) ○KITAHARA, Hirohisa; KONDO, Shin-ichi
- 3PB-079** Absorption and Fluorescence Properties of 2-Amino and 2-hydroxytryptanthrin Derivatives (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○KAWAKAMI, Jun; TAKAHASHI, Masahiro; KADOWAKI, Takuma; TSUIKI, Akihiro; KIMURA, Kohki; HASHIMOTO, Ryo; ITO, Shunji
- 3PB-080** Carboxylic Acid Recognition of a Methyl-substituted Diamidine Having an Anthracene Unit (KIT) KUSUKAWA, Takahiro; ○WADA, Tomokatsu; HARADA, Toshiro
- 3PB-081** Synthesis of a Diguanidine Receptor Having an Anthracene Unit for the Recognition of Carboxylic Acids (KIT) KUSUKAWA, Takahiro; ○OHTAGAKI, Yasuhiro; HARADA, Toshiro
- 3PB-082** Zn²⁺-selective fluorescent detection and phosphate ion discrimination by dinuclear zinc complex of amine compounds with quinoline moieties. (Grad. Sch. Human. Sci., Nara Women's Univ.) ○OHNISHI, Risa; MIKATA, Yuji
- 3PB-083** Alteration in fluorescence behavior of zinc complexes with TQEN derivatives induced by steric hindrance (Fac. Sci., Nara Women's Univ.) ○NOZAKI, Kana; MIKATA, Yuji
- 3PB-084** Molecular recognition directed supramolecular self-assembly resulting in signal amplification (IAS, Kyushu Univ.) ○ROY, Bappaditya; SHINKAI, Seiji
- 3PB-085** Chemical sensing of organic thiols by synthesized conjugated compounds. (Sch. Sci. Eng., Tokyo Denki Univ.) ○SUZUKI, Eri; SEKIGUCHI, Kazuki; ADACHI, Naoya
- 3PB-086** Synthesis of dihydrogenphosphate-selective fluorescence receptor by convergent eight hydrogen bonds (Fac. Sci., Yamagata Univ.) ○MATSUTA, Yuka; KONDO, Shin-ichi
- 3PB-087** Identification of photodegradation products of 4,5-dimethoxy-2-nitrobenzyl esters having tBu group at α -position (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○OKAMURA, Naomichi; SAITO, Yusuke; SHODA, Kousuke; KIKUCHI, Toshimasa; CHIKARAISHI, Noriko; YAMAGUCHI, Kazuo
- 3PB-088** Synthesis and anion binding behavior of dicationic dipyrrihexaphyrin (Grad. Sch. Sci., Kobe Univ.) ○ZHANG, Zhenzhen; SETSUNE, Jun-ichiro
- 3PB-089** Homologue series of hepta and tri-chloro biphenyl isomers and their iso-elution temperatures by a use of isothermal gas chromatography (Grad. Sch. of Integrated Pharmaceutical and Nutritional, Univ. of Shizuoka) ○MAKINO, Masakazu; SATO, Yoshihiko; NAGASHIMA, Satoshi; JOZUKA, Kazuhiko; YAMADA, Kenta
- 3PB-090** Synthesis and Guest Recognition Properties of Dibenzofuran-Based C₂-Symmetric Chiral Diamine Derivatives (Grad. Sch. Eng., Yokohama Natl. Univ.) ITO, Suguru; ○IKEDA, Kengo; ASAMI, Masatoshi
- 3PB-091** Development of fluorescence sensor utilizing unique binding behavior of perylene diimide derivatives to mutation sites (Grad. Sch. Eng., Univ. of Hyogo) ○TAKADA, Tadao; UMAKOSHI, Yu; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 3PB-092** Molecular capsule formed by polysilanol derivatives and anion encapsulation (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○SATO, Takayuki; FUKAWA, Marina; TANAKA, Keita; KABE, Yoshio
- 3PB-093** Synthesis of Cyclic BODIPY Oligomers Bridged by *m*-Phenylene Spacers and Their Properties (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TIMS, Univ. of Tsukuba) ○YAMAGUCHI, Gento; NAKAMURA, Takashi; NABESHIMA, Tatsuya
- 3PB-094** Water-soluble Twin Bowls: Preparation and Evaluation of Their Molecular Recognition Behavior (Konan Univ. Graduate School of natural science) ○NAKAGAWA, Toshi; DANJO, Hiroshi; KATAGIRI, Kosuke; MIYAZAWA, Toshifumi
- 3PB-095** NMR Spectroscopic Study of Intra- and Inter-Molecular Conversion of Fullerene Derivative-Cyclodextrin Complexes (Fac. Eng., Hiroshima Univ.) ○MAE, Tomoya; HIRAO, Takehiro; HAINO, Takeharu; SUGIKAWA, Kouta; IKEDA, Atsushi
- 3PB-096** Synthesis of a Bowl-shaped Trimeric Zinc Complex from Unsymmetrical Porphyrin Ligands (Grad. Sch. Sci., The Univ. of Tokyo) ○ENDO, Kenichi; UBE, Hitoshi; SHIONOYA, Mitsuhiro
- 3PB-097** Synthesis and structure of a new type of γ -cyclodextrin complexed [60] fullerene derivative (Sendai Nat. Coll. of Tech. Advanced Engineering Course; RACGM, Tohoku Univ.) ○ENDO, Tomoaki; KWON, Eunsang
- 3PB-098** Synthetic Study of [2]Rotaxanes Based on Amide-Crown Ether Complexation by Utilizing a Pentacoordinate Hydrosilane as an End-capping Reagent (Grad. Sch. Sci., Eng., Tokyo Tech) ○YAMASHITA, Kohei; SASE, Shohei; GOTO, Kei
- 3PB-099** Synthetic Study of Cavity-shaped Cyclophanes Utilizing Rotaxane Units (Grad. Sch. Sci., Eng., Tokyo Tech) ○HIBINO, Yuki; SASE, Shohei; GOTO, Kei
- 3PB-100** Synthesis and Structure of Macroyclic Phosphacyclopentane (Konan Univ.) KATAGIRI, Kosuke; ○TANAKA, Yudai; KAGAWA, Ukyo; DANJO, Hiroshi; MIYAZAWA, Toshifumi
- 3PB-101** Modification of Self-Assembled M₆L₄ Cages (Grad. Sch. Eng., The Univ. of Tokyo) ○SUZUKI, Ryoto; FUJITA, Daishi; FUJITA, Makoto
- 3PB-102** Preparation of Tetrapyrrolyl Cationic Nanocycle (Konan Univ. Graduate School of Natural Science) ○KITANI, Kazuhiro; DANJO, Hiroshi; KATAGIRI, Kosuke; MIYAZAWA, Toshifumi; KAWAHATA, Masatoshi; YAMAGUCHI, Kentaro
- 3PB-103** New approach to rotaxane formation that utilizes internal amino groups of macrocycle (Fac. Sci., Tokyo Univ. of Sci.) ○MUTO, Hitomi; KAWAI, Hidetoshi
- 3PB-104** Synthesis and guest-binding affinity of cyclophane dimers linked with different spacers (Fukuoka Univ. Graduate School of Science)

- MATSUSHITA, Koji; OHNO, Tatsuya; HAYASHIDA, Osamu
- 3PB-105** Synthesis of a Novel Terpyridine-Pt(II) Cage Complex with Three-fold Symmetry for Recognition of Aromatic Guest Molecules (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TIMS, Univ. of Tsukuba) ○SUZUKI, Sayuri; NAKAMURA, Takashi; NABESHIMA, Tatsuya
- 3PB-106** Synthesis of Calix[4]resorcinarene with Resveratrol as Side Chains (Grad. Sch. Sci., Shizuoka Univ.) ○HIROTA, Shiori; OHASHI, Toshifumi; KOBAYASHI, Kenji
- 3PB-107** Investigation of the self-assembly process of a dodecanuclear Pt (II) macrocyclic complex (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○BABA, Ayako; KOJIMA, Tatsuo; HIRAOKA, Shuichi
- 3PB-108[#]** Development of calix[4]arene extractants for platinum group metals separation (Fac. Eng. Resource Sci., Akita Univ.) ○YAMADA, Manabu; KO, Noten; RAJIV GANDHI, Muniyappan; KONDO, Yoshihiko; SHIBAYAMA, Atsushi; HAMADA, Fumio
- 3PB-109** Synthesis and characterization of a cyclophane-type polymers using RAFT polymerization (Fac. Sci., Fukuoka Univ.) ○NAKAMURA, Kazuhiro; HAYASHIDA, Osamu
- 3PB-110** Dynamic Design of Cross Linked Soft Matter derived from Ferrioin in-phase synchronization (NRI, AIST) ○DO, Jung-hee; MUKAI, Masaru; ARIMURA, Takashi
- 3PB-111** Solvothermal synthesis of metalloporphyrin supramolecules and their magnetic properties. (Grad. Sch. Sci., Josai Univ.) ○BABA, Shota; AKITA, Motoko
- 3PB-112** Synthesis and Self-Aggregation of Zinc 3-Aminomethyl-Chlorins and Their Dyads (Fac. Sci. Tech., Ryukoku Univ.; Grad. Sch. Life Sci., Ritsumeikan Univ.) MIYATAKE, Tomohiro; ○YAMAMOTO, Yusuke; MASUDA, Yohei; TAMIYAKI, Hitoshi
- 3PB-113** Synthesis and properties of binuclear rhodium complex with azulene ligand (Sch. Sci., Kitasato Univ.; RIES, Hokkaido Univ.) ○KAWANO, Reiya; TSUCHIYA, Takahiro; NORO, Shin-ichiro; MAZAKI, Yasuhiro
- 3PB-114** Pyridine-containing ligand/Ag(I) complex that shows mechanochromism in the solid state (Dept. Eng. Edu. Center, Chiba Inst. of Tech.; Research Center for Materials with Integrated Properties, Toho Univ.; Fac. Sci., Toho Univ.; Gyeongsang National Univ. Dept. Chem.) ○IKEDA, Mari; OKANO, Mikuru; KUWAHARA, Shunsuke; LEE, Shim Sung; HABATA, Yoichi
- 3PB-115** Synthesis of argentivorous molecule that connected by biphenyl group (Research Center for Materials with Integrated Properties, Toho Univ.; Fac. Sci., Toho Univ.; Dept. Eng. Edu. Center, Chiba Inst. of Tech.) ○HABATA, Yoichi; KANEKO, Nanae; IKEDA, Mari; KUWAHARA, Shunsuke
- 3PB-116** Creation of Unique Peptide Conformation by D-Amino Acid Incorporation (Grad. Sch. Eng., The Univ. of Tokyo) ○ADACHI, Kiyohiro; SAWADA, Tomohisa; FUJITA, Makoto
- 3PB-117** The Synthesis of Rotaxanes Composed Thiocrown Ether and Secondary Ammonium via End-Capping Strategy (Chem. Res. Lab., Tokyo Tech) ○NAGAI, Hiroyuki; SUZAKI, Yuji; OSAKADA, Kohtaro
- 3PB-118** Three-component supramolecular copolymers based on allosteric binding and dynamic imine bond formation. (Fac. Sci., Tokyo Univ. of Sci.) ○NAITO, Momoko; AKIMOTO, Keita; SUZUKI, Aya; KAWAI, Hidetoshi
- 3PB-119** Effect of Structure of Axle Components on Shuttling Dynamics in Rotaxane Type Molecular Machine (Grad. Sch. Eng. Sci., Osaka Univ.) HIROSE, Keiji; ○KANO, Ryohei; YOUNG, Philip G; TOBE, Yoshito
- 3PB-120** Synthesis and Association Behavior of 1,9,10-Anthridine Derivatives Having Two Orthogonally Interactable Sites (Chem. Res. Lab., Tokyo Tech) ○HARIU, Tomohiro; KOIZUMI, Take-aki
- 3PB-121** Synthesis of Phosphorus-containing Concave Host Molecules with Curved Structure Dependent on Bridging Atoms (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○HASEGAWA, Toru; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 3PB-122** Synthesis and characterization of new pyridyl urea derivatives bearing a redox-active moiety (Grad. Sch. Mat. Sci., NAIST) ○OKITA, Takumi; TAHARA, Keishiro; KIKUCHI, Jun-ichi
- 3PB-123** Photoisomerization and self-assembly of azobenzene-linked perylene bisimide dyad (Grad. Sch. Eng., Chiba Univ.) ○SUZUKI, Tomoya; YAGAI, Shiki; KARATSU, Takashi; KITAMURA, Akihide
- 3PB-124** Synthesis of conjugated oligomers and its controlled self-organization by pillararenes (Sch. Sci. Eng., Tokyo Denki Univ.) ○OKADA, Mari; SUGENO, Masafumi; ADACHI, Naoya
- 3PB-125** Preparation and properties of organogelators having the π -system based on the glutamic acid skeleton. (Grad. Sch. Eng., KIT) ○SASAGAWA, Chisato; MORIGUCHI, Tetsuji; ARAKI, Koji; TSUGE, Akihiko
- 3PB-126** Deprotonation Behavior of Crown ether/*sec*-Ammonium salt-type [3]Rotaxanes containing a Dynamic Covalent Bond in Axle (Grad. Sch. Med., Eng., Univ. of Yamaguchi) ○SHINOHARA, Akira; SHINMORI, Hideyuki
- 3PB-127** The Luminescence Property of Polycyclic Azonia Aromatic Compounds in Anionic Polymer and Clay (Urban Environmental Sci., Tokyo Metropolitan Univ.) ○KIMURA, Sachio; IKEDA, Yusuke; YAMAGUCHI, Motowo; SATO, Kiyoshi
- 3PB-128** Crystal Structure and Stability of 4-(Diethylboryl)pyridine (Suzuka Univ. of Med. Sci.) ○WAKABAYASHI, Shigeharu; KOMEDA, Seiji; OHKI, Yasuhiro; TATSUMI, Kazuyuki; HORIUCHI, Misaki; ITOH, Takahito

- 3PB-129** Crystal Structure and Properties of Cholesteryl 4-(Benzoylamino) benzoates (Fac. Eng., Hokkai Gakuen Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.; IMCE, Kyushu Univ.; Fac. Eng., Oita Univ.) ○KUBO, Kanji; TSUJI, Kazuki; MATSUMOTO, Taisuke; UJIE, Seiji; MORI, Akira
- 3PB-130** Supramolecular chirality induced by mechanical rotation-based fluid dynamics (IIS, The Univ. of Tokyo) ○NAMBU, Shohei; ISHII, Kazuyuki
- 3PB-131** Construction of Two-Dimensional Porous Molecular Alignments with Oligoether Units and Their Molecular Recognition Ability (Grad. Sch. Eng. Sci., Osaka Univ.) ○IKEDA, Motoki; IRITANI, Kohei; TAHARA, Kazukuni; TOBE, Yoshito
- 3PB-132** Characterization of photooxidized single-walled carbon nanotubes (Fac. of Edu., Tokyo Gakugei Univ.) ○SONE, Erika; MAEDA, Yutaka; YAMADA, Michio; SUZUKI, Mitsuaki
- 3PB-133** Synthesis of Molecular-wire with Redox property bases on a part of Phenylviologen (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○KOBAYASHI, Yuki; SUZUKI, Kentaro; SUGAWARA, Tadashi
- 3PB-134** Effects of axial ligands on the dynamic behaviors of lantern-type dirhodium complex-based molecular gears (Grad. Sch. Sci., The Univ. of Tokyo) ○SANADA, Kazuma; UBE, Hitoshi; SHIONOYA, Mitsuhiro
- 3PB-135** Size-effect of Alkylthio Groups on Solid State Reflectance Spectra of Methoxycarbonyl Substituted 2,5-Di(1,3-dithiol-2-ylidene)-1,3-dithiolane-4-thione Derivatives (Grad. Sch. Eng., Shizuoka Univ.) ○UEDA, Kazumasa; KUSANAGI, Hiroki; MORI, Hiroki

Physical Organic Chemistry Reaction Mechanism

- 3PB-137** Stretch Effect Induced by Planar Skeleton in Macrocyclic System on the Lifetime of Diradical (Grad. Sch. Sci., Hiroshima Univ.) ○ONISHI, Keita; ABE, Manabu

Organic Chemistry -Reaction and Synthesis-Heterocyclic Compounds

- 3PB-139** Construction of Novel Spiro-Fused α, β -Unsaturated Lactone/ α -Methylene- γ -Butyrolactam Systems with Indium-Catalyzed Amide Allylation of Maleimide Derivatives (Grad. Sch. Sci. Technol., Shizuoka Univ.; Grad. Sch. Eng., Shizuoka Univ.) MURATA, Yusuke; ○ASO, Yuwa; SENGOKU, Tetsuya; TAKAHASHI, Masaki; YODA, Hidemi
- 3PB-140** Development of Catalytic Enantioselective Amide Allylation of Isatin-Derived Ketimines (Grad. Sch. Eng., Shizuoka Univ.; Fac. Eng., Shizuoka Univ.; Grad. Sch. Sci. Technol., Shizuoka Univ.) TAKAHASHI, Masaki; ○KOMATSU, Yuki; KAWAKAMI, Ai; MURATA, Yusuke; SENGOKU, Tetsuya; YODA, Hidemi
- 3PB-141** Development of Catalytic Enantioselective Amide Allylation of Acyclic α -Iminocarbonyls (Grad. Sch. Eng., Shizuoka Univ.; Fac. Eng., Shizuoka Univ.; Grad. Sch. Sci. Technol., Shizuoka Univ.) TAKAHASHI, Masaki; ISHIDA, Masahiro; ○KOKUBO, Kana; MURATA, Yusuke; SENGOKU, Tetsuya; YODA, Hidemi
- 3PB-142** Synthetic Study of Termalicyclonone A Using NHC Catalysis (Fac. Sci., Sophia Univ.; Univ. of Shizuoka Sch. Pharm. Sci.) ○ITO, Saki; KITAMURA, Taiki; MANABE, Kei; SUZUKI, Yumiko
- 3PB-143** Synthetic Study on Citreomicin δ, ϵ Using NHC Catalysis (Fac. Sci., Sophia Univ.) ○TAKEUCHI, Eileen; SUGIMURA, Risa; SUZUKI, Yumiko
- 3PB-144** Synthesis of Spirofuoro[2,3-d]1,3-dioxoles Using Electron-Deficient Triketone Building Block and Synthesis of Electron-Deficient Tetraketone Building Block and its Reaction (Kumamoto Univ. Department of Science, Faculty of Science) ○KAWABATA, Shun; NISHINO, Hiroshi
- 3PB-145** Rearrangement of Tetraketones under Mn(III)-Catalyzed Aerobic Oxidation (Kumamoto Univ. Department of Science, Faculty of Science) ○MURAKAMI, Yuuki; NISHINO, Hiroshi
- 3PB-146** Synthesis of Spiro Compounds Using Mn(III)-Based Oxidation of Tetraketones (Kumamoto Univ. Department of Science, Faculty of Science) ○YOKOTE, Suzuka; NISHINO, Hiroshi
- 3PB-147** Mn(III)-Based Oxidative Cross Coupling Reaction of Indoles (Kumamoto Univ. Department of Science, Faculty of Science) ○INOUE, Takeshi; NISHINO, Hiroshi
- 3PB-148** Improved Synthetic Procedure for Chiral Pyrrolidine-Fused Imidazoles (Grad. Sch. Sci., Chiba Univ.) ○HASEGAWA, Momo; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 3PB-149** Intramolecular Reaction of Ethenetricarboxylate-furan Derivatives (Nara Univ. of Educ.) YAMAZAKI, Shoko; UEDA, Kohta; NIINA, Mamiko; ○SUGIURA, Hirotaka
- 3PB-150** C-H Silylation of Heteroaromatics by an Earth-Abundant Metal Catalyst (Caltech Division of Chemistry and Chemical Engineering) ○ODA, Kazuma; TOUTOV, Anton; LIU, Wen-bo; BETZ, Ketty; FEDOROV, Alexey; STOLTZ, M. Brian; GRUBBS, Robert
- 3PB-151** A Simple Method for Efficient Synthesis of Tetrapyrrolyl-porphyrin Using Adler Method in Acidic Ionic Liquids (Fac. Eng., Kinki Univ.) ○KITAOKA, Satoshi; YAMANE, Ryo; OHNISHI, Tepei; NOBUOKA, Kaoru; ISHIKAWA, Yuichi
- 3PB-152** Synthesis of 3-Oxindoles Using Novel Asymmetric Primary Amine Catalysts Bearing a 2,6-Difluorophenyl Group (Dept. Appl. Chem., Nat. Def. Acad.) ○ISHIMARU, Kaori; TANIMURA, Yuya
- 3PB-153** Computational Study for the Cyclization Reactions of Trifluoro-

- cetylated Butadienes with Hydrazines (Grad. Sch. Eng., Kobe Univ.)
 ○KAMITORI, Yasuhiro; KAWANISHI, Shunsuke; NITANI, Kensuke; OTA, Norio; OKADA, Etsuji
- 3PB-154** Tautomerization of 5-Alkylidene-2-Oxazolidinone by Use of N-Heterocyclic Carbene Catalyst (AIST; Ibaraki University Graduate School of Science and Engineering) FUJITA, Ken-ichi; OSATO, Junichi; YASUDA, Hiroyuki
- 3PB-155** Synthesis of Benzofuran Derivatives from 1-Allyloxy-2-ethynylbenzene Using Hydrazone-Palladium Catalyst (Grad. Sch. Eng., Chiba Univ.) MINO, Takashi; ○IKEMATSU, Tatsuya; WATANABE, Kohei; YOSHIZAWA, Eri; SAKAMOTO, Masami
- 3PB-156** Convenient Syntheses of Novel Fluorine-Containing Pyrazolines and Isoxazolidines Using 1-Aryl-4-trifluoroacetyl-1,3-butadienes as Building Blocks (Grad. Sch. Eng., Kobe Univ.) ○KANEDA, Iori; NISHIGUCHI, Eisuke; OTA, Norio; OKADA, Etsuji
- 3PB-157** Amine Base Promoted Acyl Rearrangement of 4-Alkylamino-2-dimethylamino-3-trifluoroacetylquinolines (Grad. Sch. Eng., Kobe Univ.) ○HATA, Akihito; HATAKENAKA, Mizuki; OKADA, Etsuji
- 3PB-158** Photocyclization of N-phenylhydroxamic acid-boron complexes toward aza[4]helicenes (Fac. Sci., Yamagata Univ.) ○SUTO, Toru; MURASE, Takashi
- english
- 3PB-159[#]** Asymmetric Cyclization-Carbonylation of 1,1-Diethynyl Acetate Mediated by Pd(II)-catalysts. (Fac. Pharm. Sci., Toho Univ.) ○DHAGE, Yogesh Daulat; KUSAKABE, Taichi; TAKAHASHI, Keisuke; KATO, Keisuke
- 3PB-160** Asymmetric aldol reaction of isatins using 2-azanobornane type organocatalyst (MURORAN INST. OF TECH.) ○OGASAWARA, Ayumi; KOHARI, Yoshihito; SEKI, Chigusa; UWAI, Koji; NAKANO, Hiroto
- 3PB-161** Synthesis of face-to-face porphyrin arrays by consecutive coupling reaction (Sch. Sci., Osaka Univ.) ○HASEGAWA, Shohei; TAMAKI, Takashi; OGAWA, Takuji
- 3PB-162** Asymmetric Aldol reaction of isatins using an amino amide organocatalyst (MURORAN INST. OF TECH.) ○KIMURA, Jou; KOHARI, Yoshihito; SEKI, Chigusa; UWAI, Koji; KWON, Eunsang; OKUYAMA, Yuko; TAKESHITA, Mitsuhiro; TOKIWA, Michio; NAKANO, Hiroto
- 3PB-163** Asymmetric Diels-Alder reaction of anthrones using amino alcohol organocatalyst (MURORAN INST. OF TECH.) ○KUMAGAI, Jun; KOHARI, Yoshihito; SEKI, Chigusa; UWAI, Koji; OKUYAMA, Yuko; TAKESHITA, Mitsuhiro; TOKIWA, Michio; NAKANO, Hiroto
- 3PB-164** Asymmetric 1,3-dipolar cycloaddition of nitrones using a super siloxyl amino alcohol organocatalyst (MURORAN INST. OF TECH.) ○OOTSUKI, Teppei; KOHARI, Yoshihito; SEKI, Chigusa; UWAI, Koji; KWON, Eunsang; OKUYAMA, Yuko; TAKESHITA, Mitsuhiro; TOKIWA, Michio; NAKANO, Hiroto
- 3PB-165** Synthesis of 3-substituted 2-bromoquinolines using 2-bromo-3-lithioquinolines generated from 2-(2,2-dibromovinyl)phenyl isocyanides (Grad. Sch. Eng., Tottori Univ.) ○NOZAWA, Ippei; KOBAYASHI, Kazuhiro
- 3PB-166** Synthesis of 3-arylbenzo[c]thiophen-1(3H)-imine derivatives using the reaction of *o*-[aryl(methoxy)methyl]phenyllithiums with isothiocyanates (Grad. Sch. Eng., Tottori Univ.) ○SHIGEMURA, Yuuho; EZAKI, Kousuke; KOBAYASHI, Kazuhiro
- 3PB-167** Intramolecular cyclization of α -(*O*-allyloxiimino)carbonyl compounds to 2-vinylloxazoles using palladium catalysts (Grad. Sch. Sci., Kyushu Univ.) ○KOMAGAWA, Hiromi; HAMASAKI, Akiyuki; ISHIDA, Tamao; TOKUNAGA, Makoto
- 3PB-168** Synthesis of 1-acyl-1,4-dihydro-1,2,3-benzotriazines by cyclization of *o*-lithiobenzyl azides (Grad. Sch. Eng., Tottori Univ.) ○CHIKAZAWA, Yuuki; KOBAYASHI, Kazuhiro
- 3PB-169** Efficient synthesis of *N,N'*-disubstituted naphthalene-2,3,6,7-bis(dicarboximide) (Fac. Sci., Shinshu Univ.; Grad. Sch. Sci. Eng., Univ. of Toyama) ○SHIMOSASA, Haruki; ODA, Mitsunori; MIYATAKE, Ryuta
- 3PB-170** O-N Exchange Reaction of 4-Butoxy-2-dimethylamino-3-trifluoroacetylquinoline with Amines: An Efficient Synthesis of 4-Amino-2-dimethylamino-3-trifluoroacetylquinolines (Grad. Sch. Eng., Kobe Univ.) NISHIO, Masaru; ○KAWAGUCHI, Genki; OKADA, Etsuji
- 3PB-171** Amine-Amine Exchange Reaction of 9-Dimethylamino-8-trifluoroacetyloxazinobenzacridines with Amines - Synthesis of Nobel Fluorine-Containing Oxazinobenzacridin-9-amines (Grad. Sch. Eng., Kobe Univ.) ADACHI, Taishi; ○YAMAMOTO, Kazutaka; OKADA, Etsuji
- 3PB-172** Synthesis of 3-alkoxyisindolinones through denitrogenation-cyclization of 2-(azidomethyl)benzoates (Grad. Sch. Eng., Tottori Univ.) ○INOUCHI, Hiroki; CHIKAZAWA, Yuuki; EZAKI, Kosuke; KOBAYASHI, Kazuhiro
- 3PB-173** Synthesis and Properties of 1,3,5-Substituted Imidazo[1,5-*a*]pyridines (Fac. Eng., Gifu Univ.) ○SAKAI, Yuusuke; AOKI, Tastuya; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 3PB-174** Synthesis and Characterization of Thiazole-thiophene Ring-fused Compounds Bearing Long Alkyl Chains (Fac. Eng., Gifu Univ.) ○KAGA, Shigesaki; KAWAI, Yasuhiro; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 3PB-175** O-N Exchange Reactions of *N*-Aryl- α -methoxy- β -trifluoroacetylenamines with Amines (Grad. Sch. Eng., Kobe Univ.) HATAKENAKA, Mizuki; KURATANI, Masayuki; ○MIHARA, Kouta; KAMITORI, Yasuhiro; OKADA, Etsuji
- 3PB-176** Formation of Isoquinolinium Salts by the Reaction of 2-(*o*-Alkynylphenyl)imidazole Derivatives with Iodine (Grad. Sch. Eng., Chiba Univ.) MATSUMOTO, Shoji; ○KIKUCHI, Shu; TAKADA, Daiki; AKAZOME, Motohiro
- 3PB-177** Intermolecular cycloaddition reaction of ortho-quinonemethide and alkylnylsilane (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○TANAKA, Kenta; SHIGEMATSU, Yosuke; HOSHINO, Yujiro; HONDA, Kiyoshi
- 3PB-178** Efficient Synthesis of 3(2H)-Furanone Derivatives Using Intramolecular Cyclization of 3-Alkoxyacetyl-2-oxopropylidiphenylsulfonium Salts (Iwate Med. Univ.) ○INAGAKI, Sho; UKAKU, Mika; TAKAHASHI, Fumi; CHIBA, Akira; KAWANO, Tomikazu
- 3PB-179** Synthesis of Novel L-proline based chiral ionic liquids as an asymmetric catalyst (Fac. Eng., Oita Univ.) ○OBATA, Shunsuke; NOBUOKA, Kaoru; HIRANO, Kazuya; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 3PB-180** Preparation, FL spectra and water-solubility of 4,7-(ethyleneoxy-substituted aryl)-oxadiazolopyridine dyes with NHS function (Grad. Sch. Eng., Kyushu Sangyo Univ.) ○YAMAGUCHI, Takahiro; YAZUMI, Takashi; MATSUOKA, Yohei; KURIYAMA, Keisuke; YAMASAKI, Toshiki; NISHI, Kentaro; KASHIWA, Yuki; ISOBE, Shinichiro
- 3PB-181** Synthesis and Reactions of 6,8-Dichloro-1*H*-cyclohepta[2,1-*b*:3,4-*b'*]diindole (Fac. Sci., Shinshu Univ.) ○KUMAI, Yoshimitsu; ODA, Mitsunori; MIYATAKE, Ryuta
- 3PB-182** Synthesis of Polysubstituted Pyridines from Chiral Tetramic Acids (Grad. Sch. Eng., Shizuoka Univ.; Fac. Eng., Shizuoka Univ.) SENGOKU, Tetsuya; SUZUKI, Chihiro; ○NAKAMURA, Yuki; TAKAHASHI, Masaki; YODA, Hidemi
- 3PB-183** Nickel Salt-Catalyzed Beckmann Rearrangement of Cycloalkane Oximes to Lactams. (Grad. Sch. Sci. Eng., Yamaguchi Univ.) YAMAMOTO, Hidetoshi; ○ISHIKAWA, Aya; FURUTA, Takahiro; SUMIMOTO, Michinori; HORI, Kenji
- 3PB-184** The Recombination Reaction of Hexaarylbiimidazole Derivatives Under Photo-irradiation. (Grad. Sch. Eng., Tokyo City Univ.) ○HASHIMOTO, Shudai; IWATA, Kazuma; IWAMURA, Takeru
- 3PB-185** Synthesis of zinc(II) complexes of new 4-hydroxy-5-oxo-2,5-dihydro-1*H*-pyrrols and their insulin-mimetic activities (Fac. Sci., Toho Univ.) ○KAWANO, Saya; TAMURA, Moe; YOSHIKAWA, Yutaka; YASUI, Hiroyuki; SASAKI, Kaname; SAITO, Ryota
- 3PB-186** Synthesis and emission behavior of *N,N'*-disubstituted 6,11-methanobenzo[10]annulene-2,3:8,9-bis(dicarboximide) (Fac. Sci., Shinshu Univ.; Grad. Sch. Sci. Eng., Univ. of Toyama) ODA, Mitsunori; ○KOBAYASHI, Naoki; MIYATAKE, Ryuta; KURODA, Shigeyasu
- 3PB-187** Substituent Effects on the Chiral Base-catalyzed Domino Cycloisomerization Reactions of Aromatic Enyne Systems (Kumamoto Univ. Faculty of Science; Grad. Sch. Sci. Technol., Kumamoto Univ.; Grad. Sch. Sci. Eng., Yamaguchi Univ.; IMCE, Kyushu Univ.) IRIE, Ryo; ○BEPPU, Shota; ARITA, Kosuke; SUMIMOTO, Michinori; FUJIMOTO, Hitoshi; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3PB-188** Short-step Synthesis of Isoquinolin-1-ones by using Friedel-Crafts Type Ring Closure of Bis(*N,N*-di(arylalkyl)carbamoyl) dichalcogenides (Grad. Sch. Eng., Iwate Univ.) SHIMADA, Kazuaki; ○KONNO, Kaisei; KORENAGA, Toshinobu
- 3PB-189** The development of effective synthetic routes for Nitrogen-containing heterocycles (Grad. Sch. Pharm., The Univ. of Tokyo) ○SHIRAI, Takahiro; KANEKO, Keiichi; MATSUNAGA, Shigeiki; KANAI, Motomu
- 3PB-190** Synthesis and Photochemical Reactions of 1-Substituted Isatins with Alkenes (Aichi Inst. of Tech.) ○JIRO, Tatsugi; TOMOMI, Ichikawa; SEIYA, Okuda; TAKAHIRO, Kawata; TAKUYA, Takahashi; SHINSAKU, Fukaya
- 3PB-191** Novel π -Conjugation Switching Molecular Devices Based on Doubly N-Confused Porphyrins (Grad. Sch. Eng., Kyushu Univ.) ○YANG, Yufeng; YAN, Jiaying; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 3PB-192** Synthesis of bis[8-benzyl-1,9-bis(4-methoxyphenyl)dipyrrin-2-yl]-*p*-xylylene (Fac. Sci., Shinshu Univ.; Grad. Sch. Sci. Eng., Univ. of Toyama) ODA, Mitsunori; ○ARIYASU, Kousuke; FUJIWARA, Yurie; MIYATAKE, Ryuta
- 3PB-193** Kinetic resolution of alcohols with *N*-aryl imidazole/acid combined catalysts (Fac. Eng., Tokyo Univ. of Sci.) ○SUZUKI, Koki; HIROSE, Atsushi; KIYOTA, Yuki; IRIE, Ryo; YAMAKI, Ryota; TAKAHATA, Hiroki; IMAHORI, Tatsushi
- 3PB-194** Synthesis of Polycyclic Azonia Aromatic Compounds by Multiple Photocyclization (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) ○IKEDA, Yusuke; YAMAGUCHI, Motowo; SATO, Kiyoshi
- 3PB-195** Efficient Synthesis of Fluorine-containing Phenanthrolines Using Photochemical Scholl Reaction (Grad. Sch. Sci. Eng., Ibaraki Univ.; Coll. Eng., Ibaraki Univ.) ○IZUMIYA, Hirokazu; FUKUMOTO, Hiroki; KUBOTA, Toshio

Saturday, March 28, PM

(15 : 00~16 : 30)

Organic Chemistry -Reaction and Synthesis-
Aliphatic and Alicyclic Compounds

- 3PC-001** Asymmetric Syntheses of Organic Compounds with Fragrance Using Hydrolase (Fac. Eng., Toyama Pref. Univ.) ○KAWASAKI, Masashi; SHIMIDZU, Momo; KUROYANAGI, Saki; TOYOOKA, Naoki
- 3PC-002** Synthesis of chiral triamines with ethylenediamine framework (Nara Institute of Science and Technology Graduate School of Materials Science) ○SEKIGUCHI, Yutaka; MATSUO, Takashi; HIROTA, Shun
- 3PC-003** Microwave assisted carbon-carbon bond forming reaction using alcohols and β -diketones under solvent-free condition. (Coll. Sci. Tech., Nihon Univ.) ○SUZUKI, Shinpei; HAYAKAWA, Mamiko; AOYAMA, Tadashi; TAKIDO, Toshio; KODOMARI, Mitsuo
- 3PC-004** Recent Progress of Highly Efficient and Practical Selective Monohydrolysis of Symmetric Diesters (MURORAN INST. OF TECH.) ○NIWAYAMA, Satomi
- 3PC-005** Synthesis of Coumarin Derivatives by Dehydrogenation Catalysts (Industrial Technology Center of Wakayama Prefecture) ○MORI, Megumi; MORI, Hajime; MIYAKE, Yasuhito
- 3PC-006** Synthesis and characterization of cyclophane immobilized poly acrylic acid (Fac. Sci., Fukuoka Univ.) ○SHIGETOMI, Syun; HAYASHIDA, Osamu; ANDO, Setsuko
- 3PC-007** Synthesis of a novel aminophosphine having a chiral piperazine moiety and its application to asymmetric acylation reactions (Fac. Textile Sci. Technol., Shinshu Univ.) ○WASHIZAWA, Daisuke; FUJITA, Mizuki; YAMAGUCHI, Yasuyuki; KADONO, Hideya; YAMAMOTO, Iwao; FUJIMOTO, Tetsuya
- 3PC-008** Catalytic Asymmetric Diels-Alder Reaction of *o*-Quinodimethane (Grad. Sch. Sci. Tech., Gunma Univ.) ○HIRANABE, Hironori; SHIRAKAWA, Hidenori; SANO, Hiroshi
- 3PC-009** Generation of *o*-Quinodimethanes Promoted by Organocatalysts and their Asymmetric Diels-Alder Reaction (Grad. Sch. Sci. Tech., Gunma Univ.) KANOMATA, Taizo; ○SANO, Hiroshi
- 3PC-010** Nucleophilic Addition Reaction to Iminium Salts Generated from Amino Silyl Enol Ethers (Grad. Sch. Eng., Mie Univ.) FURKAWA, Yuki; ○UCHIMIZU, Shota; SHIMIZU, Makoto
- 3PC-011** Umpolung Reaction Using 2-Oxo-1,4-benzoxazine-3-carboxylate Derivatives (Grad. Sch. Eng., Mie Univ.) MIYAMARU, Satoru; ○TANAKA, Takanori; SHIMIZU, Makoto
- 3PC-012** Umpolung Reaction of α -Imino Thioester Having a Cyclopropyl Group with Grignard Reagents (Grad. Sch. Eng., Mie Univ.) MORIMOTO, Takayoshi; ○YANAGI, Yusuke; MIZOTA, Isao; SHIMIZU, Makoto
- 3PC-013** Umpolung Reaction of *N*-Silyl α -Imino Ester (Grad. Sch. Eng., Mie Univ.) MIZOTA, Isao; ○TADANO, Yurie; SHIMIZU, Makoto
- 3PC-014** Diastereoselective Tandem *N*-Alkylation/Nucleophilic Addition Reaction of α -Aldimino Thioesters. (Grad. Sch. Eng., Mie Univ.) NAKAJIMA, Yuji; ○HIGASHINO, Asako; MIZOTA, Isao; SHIMIZU, Makoto
- 3PC-015** Umpolung Reaction of α -Imino Amides with Various Nucleophiles (Fac. Eng., Mie Univ.) FUKAYA, Toshikazu; ○MIZUKOSHI, Nanami; MIZOTA, Isao; SHIMIZU, Makoto
- 3PC-016** Tandem *N*-Alkylation / Michael Addition with Various Organometallic Reagents to α -Imino Thioesters (Grad. Sch. Eng., Mie Univ.) YUN, Tesong; ○TSUJIMOTO, Yusuke; MIZOTA, Isao; SHIMIZU, Makoto
- 3PC-017** One-pot Transformation of Carboxylic Acids into *N*-Alkylimides (Grad. Sch. Sci., Chiba Univ.) ○NAKAI, Yuta; MORIYAMA, Katsuhiko; TOUGOU, Hideo
- 3PC-018** Catalytic asymmetric [3+2] cycloaddition of α -iminoester with nitroalkene catalyzed by imidazole-proline-copper complex. (Grad. Sch. Sci., Chiba Univ.) ○TOKUMITSU, Chihiro; ARAI, Takayoshi
- 3PC-019** Novel Multicomponent Synthesis of Tetrahydrobenzo[b]pyran Derivatives Using DMSO/MgSO₄ (Coll. Sci., Ibaraki Univ.) ○HIRATSUKA, Ryo; ISOBE, Toshihiro; ORIYAMA, Takeshi
- 3PC-020** Cycloaddition of Furan-Based Quinodimethane (Grad. Sch. Sci. Tech., Gunma Univ.) ○IMAIZUMI, Yuki; ITO, Satoshi; SANO, Hiroshi
- 3PC-021** The synthesis of optically active γ -lactones via the thioamide by enzymatic method (Department of Sci. Tech., Meiji Univ.; Kitami Inst. of Tech. Dept. Biotech. Environ.) ○OSANAI, Takeshi; SHIMOTORI, Yasutaka; MIYAKOSHI, Tetsuo
- 3PC-022** Synthesis of optically active δ -lactones by diastereomeric resolution and evaluation of their biological activities (Sch. Sci. Eng., Meiji Univ.; Kitami Inst. of Tech. Dept. Biotech. Environ.; St. Marianna Univ. Sch. of Med.) ○IKEDA, Yoshitaka; MIYAKOSHI, Tetsuo; SHIMOTORI, Yasutaka; KANAMOTO, Taisei; NAKASHIMA, Hideki
- 3PC-023** Kinetic Resolution of β -Aryloxy Alcohols by Catalytic Asymmetric Acylation (Coll. Sci., Ibaraki Univ.) ○KATO, Atsuki; ORIYAMA, Takeshi
- 3PC-024** Asymmetric benzylation of racemic alcohols catalyzed by a phosphinite derivative of aminoindanol (Fac. Textile Sci. Technol., Shinshu Univ.) ○HARA, Nanami; FUJISAWA, Shu; FUJITA, Mizuki; YAMAMOTO, Iwao; FUJIMOTO, Tetsuya
- 3PC-025** Synthesis of optically active thioamides by optical resolution and evaluation of their antibacterial properties (Kitami Inst. of Tech. Department of Biotechnology and Environmental Chemistry; Sch. Sci. Eng., Meiji Univ.; St. Marianna Univ. Sch. of Med.) ○SHIMOTORI, Yasutaka; ISHIKAWA, Akira; MATSUDA, Kohei; HOSHI, Masayuki; IKEDA, Yoshitaka; MIYAKOSHI, Tetsuo; KANAMOTO, Taisei; NAKASHIMA, Hideki
- 3PC-026** One-pot Conversion of Ethylarenes into Aromatic Primary Amides via Formation of C-N Bond by Iodoform-Type Reaction (Grad. Sch. Sci., Chiba Univ.) KAWAGOE, Yusuke; MORIYAMA, Katsuhiko; ○TOUGOU, Hideo
- 3PC-027** Effect of the position of carbonyl in hydrophobic chain in the reaction of amphiphilic thioesters with amine in water (Grad. Sch. Sci., Rikkyo Univ.) ○OTOMO, Ikumi; KURODA, Chiaki
- 3PC-028** Synthetic study of optically active valerenic acid and its analogues. (Grad. Sch. Agr. Sci., Kinki Univ.) ○IZU, Yukako; SHIRAI, Takashi; TSUMAGATA, Hiroki; KITAYAMA, Takashi
- 3PC-029** Conversion of Aromatic Oxazoline to Cyanomethyl Ester with Pyridinium Hydrobromide Perbromide in Water (Sch. of Med., Fukushima Med. Univ.) ○SAYAMA, Shinsei
- 3PC-030** Asymmetric Pictet-Spengler reaction catalyzed by acid-chiral acceptor supramolecular complex (Fac. Eng., Tokyo Univ. of Sci.) HANDA, Shinya; YAMASHITA, Kohei; ○SUGIMOTO, Hiroshi
- 3PC-031** Catalytic asymmetric Mannich reaction using an acetate ester equivalent exerted on reactivity Umpolung by *N*-heterocyclic carbenes (Fac. Eng., Tokyo Univ. of Sci.) ○HANDA, Shinya; TAKAHASHI, Akari; SUGIMOTO, Hiroshi
- 3PC-032** The one-pot three-molecular domino reaction of bindone with aldehydes (Grad. Sch. Sci., Josai Univ.) ○ICHIKAWA, Yuki; KATO, Yuka; AKITA, Motoko; KOBAYASHI, Keiji
- 3PC-033** Self-assembled Synthesis of Poly Zinc-Aminoiminobinaphthoxide Complex and Application to Asymmetric Iodolactonization (Grad. Sch. Sci., Chiba Univ.) ○KOJIMA, Takahiro; SUGIYAMA, Noriyuki; KANO, Hirofumi; ITOH, Tsutomu; ARAI, Takayoshi
- 3PC-034** Asymmetric Kinugasa reaction catalyzed by bis(imidazolidine) pyridine-copper complex. (Grad. Sch. Sci., Chiba Univ.) ○SATO, Katsuya; ARAI, Takayoshi
- 3PC-035** Cross-coupling Reaction of Serine/Proline Derivatives with 1-Alkenyl-zirconocene for the Synthesis of Sphingosine (BRI, AIST) ○MURAKAMI, Teiichi; TANAKA, Mutsuo
- 3PC-036** Regioselective Haro-Amination of Indoles Using Novel Imide-Combined Hypervalent Iodine(III) (Chiba Univ., Graduate School of Science) ○ISHIDA, Kazuma; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3PC-037** Development of Efficient Multiphase Reaction with Micro- and Nanobubble Strategy (Grad. Sch. Eng., Shizuoka Univ.) ○TSUBOI, Takuya; NARUMI, Tetsuo; WATANABE, Naoharu; MASE, Nobuyuki
- 3PC-038** Development of Environmentally-Friendly Efficient Photo Reaction with Micro- and Nanobubble Strategy (Grad. Sch. Eng., Shizuoka Univ.) ○NISHINA, Yuki; NARUMI, Tetsuo; WATANABE, Naoharu; MASE, Nobuyuki
- 3PC-039** Development of High-Molecular-Weight Polylactide Synthesis Using Organocatalyst (Grad. Sch. Eng., Shizuoka Univ.) ○NAKAYA, Yoshitaka; NARUMI, Tetsuo; WATANABE, Naoharu; MASE, Nobuyuki
- 3PC-040** Identification of Organocatalysts Through High-Throughput Fluorescence-Based Screening in Mannich Reaction (Grad. Sch. Eng., Shizuoka Univ.) ○SASAKI, Aiko; NARUMI, Tetsuo; WATANABE, Naoharu; MASE, Nobuyuki
- 3PC-041** Identification of Organocatalysts Through High-Throughput Fluorescence-Based Screening in Diels-Alder Reaction (Grad. Sch. Eng., Shizuoka Univ.) ○MASUDA, Tsuguya; NARUMI, Tetsuo; WATANABE, Naoharu; MASE, Nobuyuki
- 3PC-042** Development of PET Probe Bearing Trifluoromethyl Group for Enhancement of Specific Radioactivity (Grad. Sch. Eng., Shizuoka Univ.; Hamamatsu Univ. Sch. Med.) ○OKAMURA, Takuma; OGAWA, Mikako; MAGATA, Yasuhiro; NARUMI, Tetsuo; WATANABE, Naoharu; MASE, Nobuyuki
- 3PC-043** Asymmetric Micheal addition of thiols to nitroolefins via a novel phenylpyrrolidine-based urea organocatalyst (Coll. Sci., Ibaraki Univ.) ○YOSHIDA, Kazuki; KAWAZOE, Souichirou; ORIYAMA, Takeshi
- 3PC-044** Asymmetric Mannich Reaction of Malononitrile to Imines Catalyzed by Chiral Organocatalyst having Secondary Amines (Grad. Sch. Sci., Chiba Univ.) ○INOUE, Takahiro; ARAI, Takayoshi
- 3PC-045** A mild and regioselective ring-opening of aziridines with acid anhydride using TBD and PS-TBD as a catalyst (Ibaraki Univ.) MATSUKAWA, Satoru; MOURI, Yasutaka; ○SAIKI, Sayaka
- 3PC-046** Highly efficient acetalization using aniline resin salts (Sch. Life Dent., The Nippon Dental Univ.) ○TANEMURA, Kiyoshi; SUZUKI, Tsuneo
- 3PC-047** Synthesis of chiral bronsted acid bearing an adjacent sulfonamide and its acidity. (Fac. Sci., Hiroshima Univ.) ○ICHIKI, Toshiya; TAKAGI, Ryukichi
- 3PC-048** Quantum chemical study of the reaction of 3-trimethylsilylcyclohexa-1,4-dienes with B(C₆F₅)₃ (Hoshi Univ.) ○SAKATA, Ken
- 3PC-049** Chiral Lewis Acid-Catalyzed Bromination of Ethyl 2-Benzoylpropionate (Grad. Sch. Sci. Eng., Yamaguchi Univ.; Tosoh Organic Chemical Co. Ltd. Department of Development) YAMAMOTO, Hidetoshi;

- YAMAMOTO, Souta; HOSOMITSU, Nozomi; SUMIMOTO, Michinori; HORI, Kenji; MATSUMOTO, Yasuhiro; SOGA, Shin-ichi
- 3PC-050** Investigation of Catalytically Active Species in Zinc Bisamidinate Catalyzed Hydrophosphonylation of α -Ketoesters (Grad. Sch. Sci., Rikkyo Univ.) ○ICHINOSE, Atsushi; YAMANAKA, Masahiro
- 3PC-051** Development of Chiral Ag(I)-Bisamidine Catalyzed Asymmetric Friedel-Crafts Alkylation of Indoles with α -Substituted- β -Nitroacrylates (Coll. Sci., Rikkyo Univ.) ○NOMOTO, Takumi; YAMANAKA, Masahiro
- 3PC-052** Development of self-assembled asymmetric catalyst based on two-point hydrogen bonding interaction with amidine or amide (Grad. Sch. Sci., Rikkyo Univ.) ○SHISHIDO, Takehito; YAMANAKA, Masahiro
- 3PC-053** Baeyer-Villiger oxidation of multisubstituted cyclic ketone (Fac. Agr., Kinki Univ.) ○ASHIDA, Kumiko; FUTAKI, Miku; SUGA, Ayaka; YAMAMOTO, Chieko; KITYAMA, Takashi
- 3PC-054** Synthesis of Nitrogen-Containing Compounds Using Conjugate Addition Reactions of Alkynyl Imines (Grad. Sch. Eng., Mie Univ.) HACHIYA, Iwao; ONAKAMURA, Kenta; SHIMIZU, Makoto
- 3PC-055** Development of an asymmetric reaction field based on the hydrogen bonding of the imide group (Fac. Sci., Kanagawa Univ.) ○KOBORI, Ayaka; KIHARA, Nobuhiro
- 3PC-056[#]** Effect of Alkyl Chain Length on Migration of Alkylamine between Amphiphiles (Suzuka Nat. Coll. of Tech. Department of Chemistry and Biochemistry) ○TAKAKURA, Katsuto; SAITOH, Momoka; NISHIZAKI, Nanaho
- 3PC-057** Ring-opening Fluorination of Dihalocyclopropylsilyl ethers (Fac. Sci. Tech., SIST; Gunma University Graduate School of Science and Technology) ○KISHIDA, Mari; KITAGAWA, Saori; MURAMATSU, Yukari; SUZUKI, Chiharu; AMII, Hideki; KIRIHARA, Masayuki
- 3PC-058** Stereoselective Norrish-Yang reaction of aromatic ketones using tetraalkylammonium salts (Ochanomizu Univ. Department of Chemistry; NRI, AIST) ○OSHIMA, Yuki; YAMADA, Shinji; TSUZUKI, Seiji
- 3PC-059** Transformation of a tricyclic framework using tetraalkylammonium salts (Ochanomizu Univ. Department of Chemistry) ○MIYAMOTO, Chiyo; YAMADA, Shinji

Organic Chemistry -Reaction and Synthesis- Aromatic Compounds

- 3PC-061** Substituent Effect on the Formation of Phenyl indane Derivatives by Dimerization of Cinnamic Acids (Dept. Mat. Sci., Wakayama Nat. Coll. of Tech.) ○NODA, Takumi; NOMURA, Eisaku
- 3PC-062** Continuous Flow Synthesis of HMF from Sugars under Microwave Irradiation (Dept. Mat. Sci., Wakayama Nat. Coll. of Tech.) ○YAMASHITA, Kozue; NOMURA, Eisaku
- 3PC-063** Microwave-assisted Vilsmeier Reaction of N,N-Dimethylaniline (Sch. Life Dent., The Nippon Dental Univ.) ○SUZUKI, Tsuneo; TANEMURA, Kiyoshi
- 3PC-064** Preparation of Dihalogenoindroquinolines and Their Polymerizations (Nagoya Municipal Industrial Research Institute Organic Materials Laboratory; Chem. Res. Lab., Tokyo Tech) ○HAYASHI, Hideki; KOIZUMI, Take-aki
- 3PC-065** One-Pot Transformation of Arenes into Aromatic Nitriles from without using Transition Metal and Metal Cyanides (Grad. Sch. Sci., Chiba Univ.) ○TAMURA, Toshiyuki; MORIYAMA, Katsuhiko; TOUGOU, Hideo
- 3PC-066** Solvent environment that controls [7]helicene synthesis by photocyclization (Fac. Sci., Yamagata Univ.) ○HAYAKAWA, Keigo; MURASE, Takashi
- 3PC-067** Synthesis of π -Extended Perylene, Pyrene, and Zethrene Derivatives (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○SHIMIZU, Yuji; MIYATA, Masatoshi; HAYAKAWA, Manato; UMEDA, Rui; NISHIYAMA, Yutaka
- 3PC-068** Synthesis of nitrogen-bridged cyclophanes incorporating benzene and naphthalene cores (Okayama Univ. Graduate school of Nature Science and Technology) ○YAMAMOTO, Masanori; OKAMOTO, Hideki
- 3PC-069** Bronsted Acid-Catalyzed Dehydrative Cycloaromatization: A Facile Synthesis of Polycyclic Aromatic Hydrocarbons (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○WANG, Jingchen; TAKAHASHI, Ikko; FUJITA, Takeshi; ICHIKAWA, Junji
- 3PC-070** Selective Syntheses of Head-to-head Type Styrene Dimers Bearing two Fluoroalkyl End-groups (Fac. Med., Shimane Univ.; Grad. Sch. Sci. Tech., Hirosaki Univ.) ○IIZUKA, Mari; SADA, Tai; SAWADA, Hideo; YOSHIDA, Masato
- 3PC-071** Synthesis of Macrocycles Containing Perylene Diimide Moieties Directed to Application into Rotaxane Synthesis (Grad. Sch. Sci. Tech., Gunma Univ.) ○WATANABE, Satoru; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 3PC-072** Synthesis and Properties of Oxatriphyrins (Grad. Sch. Mat. Sci., NAIST) ○KAWATSU, Shinsuke; KUZUHARA, Daiki; HAYASHI, Hironobu; ARATANI, Naoki; YAMADA, Hiroko
- 3PC-073** Acene Elongation Reaction: Optimization and Substrate Scope (Sch. Sci., Nagoya Univ.) ○KASHIWAGI, Akihiko; SAITO, Shohei; YAMAGUCHI, Shigehiro
- 3PC-074** Highly enantioselective phenyl transfer to aldehydes with a Zn(salen)

- complex (Fukuoka Univ. of Educ. Department of Chemistry) UETSU, Hidenori; ○OOKA, Kuniaki; ITO, Katsuji
- 3PC-075** Synthesis of keto-dimers by oxidative coupling reaction of polycondensed phenols (Grad. Sch. Eng., Utsunomiya Univ.) ○NONAKA, Yasufumi; KIMURA, Takao; KARIKOMI, Michinori
- 3PC-076** New Synthetic Approach to Carbazole-based Chiral Aza-hetero-helicenes by Catalytic Dehydrogenative Domino Cycloaromatization (Grad. Sch. Sci. Technol., Kumamoto Univ.; Kumamoto Univ. faculty of science; IMCE, Kyushu Univ.; Grad. Sch. Sci. Eng., Yamaguchi Univ.) IRIE, Ryo; ○UEDA, Daiki; SHIGETA, Yusuke; HAMAMOTO, Shingui; SUMIMOTO, Michinori; FUJIMOTO, Hitoshi; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3PC-077** Conjugate addition of ynone bearing azulene with amine (Fac. Eng., KAIT) YAMAGUCHI, Jun-ichi; ○SUGIYAMA, Sayuri
- 3PC-078** Synthesis of unsymmetrical substituted 1,3,5-Triacylbenzenes in pressurized hot water (Grad. Sch. Industrial Tech., Nihon Univ.) ○INABA, Ryoichiro; SATOU, Toshiyuki; OKADA, Masaki; HIAKI, Toshihiko; IWAMURA, Hiizu
- 3PC-079** The Friedel-Crafts acylation using dibenzoylmethanato metal complex (Fac. of Edu., Tokyo Gakugei Univ.) YOSHIIHARA, Nobutoshi; ○KASHIDA, Junki; ZHULAN, Qimuge
- 3PC-080** Synthesis of indans using two different alcohols in the presence of Silica Gel supported Sodium Hydrogen Sulfate (Coll. Sci. Tech., Nihon Univ.) ○YAMAMURA, Junpei; HAYAKAWA, Mamiko; AOYAMA, Tadashi; TAKIDO, Toshio; KODOMARI, Mitsuo
- 3PC-081** Synthesis and Structures of [2ⁿ](2,7)Naphthalenophanes (n=2-4) (Grad. Sch. Eng. Sci., Osaka Univ.) ○OHTSUKA, Kenta; HIBI, Daijiro; TOBE, Yoshito
- 3PC-082** Synthesis and characterization of benzoporphyrin La complexes (Fac. Sci., Ehime Univ.) ○KOBAYASHI, Tomohiro; MORI, Shigeki; OKUJIMA, Tetsuo; UNO, Hidemitsu
- 3PC-083** Homo-coupling reaction of Grignard reagents using perfluorocyclopentene derivatives (Fac. Eng., Iwate Univ.) KORENAGA, Toshinobu; ○NITATORI, Kaoru; SHIMADA, Kazuaki
- 3PC-084** Synthesis of 1,4-bis(4-substituted-phenylazo)benzenes with the benzene-bis(diazonium) salt (Fac. Eng., Soka Univ.) ○MIYASHITA, Kiyoshi; UCHIDA, Nozomi; HOSOKAWA, Yuji; ITO, Masato

Organic Chemistry -Reaction and Synthesis- Heteroatom Compounds

- 3PC-087** Functional group-friendly silylation of haloarenes using a highly polar solvent system (Grad. Sch. Sci. Eng., Saga Univ.) ○GONDO, Keisuke; KITAMURA, Tsugio; OYAMADA, Juzo
- 3PC-088** Metal-free, iodosylarene-promoted fluorination of carbonyl compounds (Grad. Sch. Sci. Eng., Saga Univ.) ○MUTA, Kensuke; KITAMURA, Tsugio; OYAMADA, Juzo
- 3PC-089** Elucation of properties and synthesis of 5-aminothiazoles with various substituents at the 2-position. (Fac. Eng., Gifu Univ.) ○NAKASHIMA, Naoto; YAMAGUCHI, Kirara; HASEGAWA, Saki; MURAI, Toshiaki
- 3PC-090** Synthesis of imidazo[1,5-a]pyridines with a *o* hydroxy group and their complexes (Fac. Eng., Gifu Univ.) ○SOMIYA, Shinya; MIYAHARA, Keitaro; MURAI, Toshiaki
- 3PC-091** Catalytic Transoximation to Aldehydes (Fac. Sci. Tech., Ryukoku Univ.) ○OISHI, Naoki; KITAGAWA, Saki; YAMAZAKI, Masayuki; HYODO, Kengo; UCHIDA, Kingo
- 3PC-092** Development of new synthetic method for poly(p-phenylene sulfide) via polysulfonium salt (Grad. Sch. Eng., Iwate Univ.) OGAWA, Satoshi; ○ONO, Taichi; MURAOKA, Hiroki
- 3PC-093** Synthesis of Diselenide with a Thiourea for Hydrogen Peroxide Baeyer-Villiger Oxidation (Coll. Industrial Tech., Nihon Univ.) ○MIYASHI, Naoka; ICHIKAWA, Hayato; SHIMIZU, Shoichi
- 3PC-094** Synthesis and properties of aryl-functionalized branched-type oligothiophenes with D- π -A system (Grad. Sch. Eng., Iwate Univ.) MURAOKA, Hiroki; ○TANIGUCHI, Yoshihiro; OGAWA, Satoshi
- 3PC-095** Oxidation Reactions of Diphosphenes Bearing the Bulky Rind Groups (Fac. Sci. Eng., Kinki Univ.) ○TSUJIMOTO, Shota; HASHIZUME, Daisuke; MATSUO, Tsukasa
- 3PC-096** Syntheses of cyclic organosulfur compounds having sulfonium groups (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) ○SUGANO, Nanami; HIRABAYASHI, Kazunori; SHIMIZU, Toshio
- 3PC-097** Synthesis and properties of thiacycrown ethers having p-substituted benzene units (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) ○TANAKA, Akifumi; HIRABAYASHI, Kazunori; SHIMIZU, Toshio
- 3PC-098** Synthesis of phosphonate monoesters via hydrolysis of phosphonate esters having a binaphthyl group and their application (Fac. Eng., Gifu Univ.) ○KUWABARA, Kazuma; MAEKAWA, Yuki; HIRAI, Yuki; MURAI, Toshiaki
- 3PC-099** Synthesis of a Selenenyl Iodide Derived from a Selenocysteine by Taking Advantage of a Large Molecular Cavity (Grad. Sch. Sci., Eng., Tokyo Tech) ○KARASAKI, Takafumi; SASE, Shohei; GOTO, Kei
- 3PC-100** Development of Novel Cyclization Reactions by Taking Advantage of Electrophilic Activation with a Selenenyl Iodide (Grad. Sch. Sci., Eng., Tokyo Tech) ○HOSHINO, Yukiko; SASE, Shohei; GOTO, Kei

- 3PC-101** Synthesis of an Alkynyl-Substituted Silole (ICU) ○KURIHARA, Kohei; KOBAYASHI, Junji
- 3PC-102** Synthesis of 2-arylnaphtho[2,3-*b*]phosphole derivatives by using cross-coupling reactions (Fac. Sci., Niigata Univ.; Fac. Sci. Eng., Doshisha Univ.) ○MOTEGI, Yuta; MATANO, Yoshihiro; KIMURA, Yoshifumi
- 3PC-103** The synthesis of novel quaternary ammonium salts derived from cinchona alkaloids and their application to asymmetric hydrolysis of esters (Fac. Sci., Kyushu Univ.) ○FURUTACHI, Yuhō; HIDANI, Yuki; HAMASAKI, Akiyuki; ISHIDA, Tamao; TOKUNAGA, Makoto
- 3PC-104** Synthesis and Properties of Aminotropinimine, 2-Aminotropone and Tropolone Derivatives with Disulfide Moiety (Grad. Sch. Sci., Eng., Saitama Univ.) ○TSUCHIYA, Aya; IZUMI, Khosuke; SATO, Ohki
- 3PC-105** Selective Synthesis of Glycerol Dicarbonates and Tricarbonates from Carbon Dioxide and Glycerol (Osaka Municipal Technical Research Institute; Fac. Sci. Tech., Ryukoku Univ.) ○MIHARA, Masatoshi; MOROGA, Kaname; IWASAWA, Tetsuo; NAKAI, Takeo; IWAI, Toshiyuki; ITO, Takatoshi; OHNO, Toshinobu; MIZUNO, Takumi
- 3PC-106** Synthesis, Structure and Redox Properties of Cyclic ferrocene trimer bridged oligothiophene spacer (Grad. Sch. Eng., Iwate Univ.) OGAWA, Satoshi; ○YAMASHITA, Kohei; OZAWA, Kohei; MURAOKA, Hiroki
- 3PC-107** Synthesis of chiral quaternary phosphonium salts with hydrogen-bond donor (Grad. Sch. Sci., Kyushu Univ.) ○HIDANI, Yuki; ISHIDA, Tamao; HAMASAKI, Akiyuki; TOKUNAGA, Makoto
- 3PC-108** Synthesis of Bifunctional Organophosphorus Compounds via Friedel-Crafts Phosphorylation (Osaka Municipal Technical Research Institute) ○ITO, Takatoshi; MIHARA, Masatoshi; NAKAI, Takeo; IWAI, Toshiyuki; MIZUNO, Takumi; OHNO, Toshinobu
- 3PC-109** Synthesis of Primary-alkyl-substituted Highly Reactive Selenium Species by Taking Advantage of a Large Cavity-shaped Molecular Framework (Grad. Sch. Sci., Eng., Tokyo Tech) ○KIMURA, Ryutarō; SASE, Shohei; GOTO, Kei
- 3PC-110** Synthesis of germole derivatives via titanacycle intermediates. (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) ○TAN, Sia Er; NISHIYAMA, Hiroki; INAGI, Shinsuke; TOMITA, Ikuyoshi
- 3PC-111** Synthesis of Ruthenium Complexes Bearing New PS₃-type Tripodal Tetradentate Ligand and Their Application to Catalyst for Oxidation (Grad. Sch. Sci. Tech., Gunma Univ.) ○TAKEDA, Nobuhiro; MIMRU, Ryo; UEKUSA, Natsuko; UNNO, Masafumi
- 3PC-112** Construction of Extended Hypervalent System Supported by Multi-Selenium Atoms Linked Through Diacetylene Unit (Fac. Sys. Eng., Wakayama Univ.) ○MATSUO, Chikara; HAYASHI, Satoko; NAKANISHI, Waro
- 3PC-113** Synthesis of a novel DDS carrier with π - π stacking aimed to improve micelle - drug interaction (Grad. Sch. Sci., Eng., Saitama Univ.) ○ISHIWATA, Shunta; KISHIGAMI, Fumiya; KOYAMA, Tetsuo; MATSUOKA, Koji; HATANNO, Ken
- 3PC-114** Substituent Effects on Properties of Triarylboranes Bearing an Extended π -Conjugated System by Utilizing Azide Groups (Grad. Sch. Sci. Eng., Univ. of Toyama) ○KONISHI, Shota; YOSHINO, Junro; HAYASHI, Naoto; HIGUCHI, Hiroyuki
- 3PC-115** Optical Properties of N-Silylethynylcarbazol (Coll. of Liberal Arts, ICU) ○KOBAYASHI, Junji; ONISHI, Ayaka
- 3PC-116** Development of Pentafluorosulfanylphenyl Azides as Tools for the Synthesis of Bioactive Compounds (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○TOKUNAGA, Etsuko; YANG, Yu-dong; MATSUZAKI, Kohei; OKUSU, Satoshi; SHIBATA, Norio
- 3PC-119** The accurate synthesis of trisubstituted olefins by copper catalyzed Z-selective alkylation of styrenes (Fac. Eng., Yamaguchi Univ.) ○INOUE, Yuki; NAKAMURA, Kimiaki; ISHIKAWA, Shingo; NISHIKATA, Takashi
- 3PC-120** The amine effects in copper catalyzed switching reaction of carboamidation and olefination (Fac. Eng., Yamaguchi Univ.) ○YAMAGUCHI, Norihiro; ITONAGA, Kohei; ISHIKAWA, Shingo; NISHIKATA, Takashi
- 3PC-121** Copper catalyzed tertiary-alkylative coupling reaction via allylic C-C bond cleavage (Fac. Eng., Yamaguchi Univ.) ○WADA, Masaru; NODA, Yushi; ISHIKAWA, Shingo; NISHIKATA, Takashi
- 3PC-122** Development of Sr-mediated Alkylation of Various Bulky Carbonyl Compounds (Fac. Integrated Arts and Sci., The Univ. of Tokushima) ○KITAKATA, Saki; YAMAGUCHI, Yuka; MIYAZAKI, Yasuaki; OHMURA, Satoshi; MIYOSHI, Norikazu
- 3PC-123** Convenient Sr-mediated Alkylation of Acetylene Carboxylic Acid Derivatives (Fac. Integrated Arts Sci., The Univ. of Tokushima) ○TAKAHASHI, Haruka; TATEDA, Sawa; YAMAGUCHI, Yuka; MIYAZAKI, Yasuaki; OHMURA, Satoshi; MIYOSHI, Norikazu
- 3PC-124** Asymmetric Allylation of Carbonyl Compounds and Imines Catalyzed by Chiral Phosphine-Silver Alkoxide (Grad. Sch. Sci., Chiba Univ.) ○YANG, Nan; AKIRA, Yanagisawa
- 3PC-125** Enantioselective Nitroso Aldol Reaction Catalyzed by a Chiral Phosphine-Silver Alkoxide (Chiba Univ. Graduate School of Science) ○TAKEISHI, Akihiko; RIN, Yokukin; YANAGISAWA, Akira
- 3PC-126** Asymmetric Conjugate Cyanation of α , β -Unsaturated Imides by a Self-assembly Chiral Al-salen Complex (Fac. Eng., Tokyo Univ. of Sci.) ○SUGIYAMA, Hirotsuka; HAYASHI, Yuusuke; IRIE, Ryo; KURIHARA, Seiji; KUWAHARA, Yutaka; IMAHORI, Tatsushi
- 3PC-127** Ph₃PAuCl/SnCl₂-catalyzed ortho-propargylation of phenols followed by cycloisomerization (Grad. Sch. of Sci. Technol., Sophia Univ.) ○SUZUKI, Moe; SUZUKI, Noriyuki; MASUYAMA, Yoshiro
- 3PC-128** Synthesis and property of metal complexes of N-Confused porphyrin with an axially coordinated pyridine ligand (Fac. Eng., Kyushu Univ.) ○DEGUCHI, Yuya; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 3PC-129** Mechanistic study of tethered bis(Co(III)-salen) complexes as a self-assembly catalyst (Fac. Eng., Tokyo Univ. of Sci.) ○WATANABE, Masaki; HAYASHI, Yusuke; DOI, Masato; IRIE, Ryo; KURIHARA, Seiji; KUWAHARA, Yutaka; IMAHORI, Tatsushi
- 3PC-130** Switching of stereoselectivity on Cu-catalyzed 1,4-addition reaction by changing the order of addition of the reaction reagents (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○MATSUMOTO, Keitarou; SAKAGUCHI, Satoshi
- 3PC-131** Copper-Catalyzed diborylation of activated alkynes (Grad. Sch. Sci., Shizuoka Univ.) ○NETSU, Yuma; TSUKADA, Naofumi
- 3PC-132** Copper-catalyzed oxidative cyclization of binaphthols; efficient synthesis of PXX derivatives (Dept. of Chem. Eng., NNCT) KAMEI, Toshiyuki; ○URYU, Mizuhō; SHIMADA, Toyoshi
- 3PC-133** Iron-Catalyzed Intramolecular Carbometalation of Alkynyloxetanes (Fac. Eng., Kanagawa Univ.) SHIMIZU, Megu; ○SUGIYAMA, Yuki; TAMURA, Kazuhiro; MATSUNO, Chikashi; OKAMOTO, Sentaro
- 3PC-134** Indium-Catalyzed Three-Component Reaction of Alkynes, Amines, and Trimethylsilyl Cyanide for Synthesis of α -Aminonitrile Derivatives. (Fac. Sci. Technol., Tokyo Univ. of Sci.) ○HAMACHI, Yuta; OGIWARA, Yohei; SAKAI, Norio
- 3PC-135** Enantioselective hydrosilylation of diaryl ketone catalyzed by chiral NHC-Ir complex (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○MANABE, Yoshiki; SAKAGUCHI, Satoshi
- 3PC-136** Low-valent niobium mediated synthesis of bicyclic compounds from diynes (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○WATANABE, Keisuke; SATOH, Yasushi; KAMEI, Motofumi; OBORA, Yasushi
- 3PC-137** Niobium-catalyzed olefin metathesis reaction (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○CHIWATA, Jintaro; OZAKI, Makoto; OBORA, Yasushi
- 3PC-138** Nb-catalyzed cycloaddition reaction of enynes and alkynes (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○FURUKAWA, Hirohisa; SATOH, Yasushi; OBORA, Yasushi
- 3PC-139** Biaryl cross-coupling reaction catalyzed by tridentate β -aminoketonato complexes of Ni(II) (Grad. Sch. Eng., Yokohama Natl. Univ.) ○ASANO, Erika; KURISU, Nobutaka; HATAYAMA, Yuki; YAMAGUCHI, Yoshitaka
- 3PC-140** Ni(0)-Catalyzed [2+2+1] Carbonylative Cycloaddition Reaction of Imines and Alkynes or Norbornene Using Phenyl Formate as CO Source (Grad. Sch. Eng., Osaka Univ.) MAEDA, Kyogo; ○SASAOKA, Yukari; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke
- 3PC-141** Osmium-Catalyzed Z-Selective Hydroboration of Terminal Alkyne (Fac. Eng., Kitami Inst. of Tech.) ○SUGISAWA, Keisuke; NAMIKOSHI, Takeshi; WATANABE, Shinji; MURATA, Miki
- 3PC-142** Synthesis and Application of P-Chiral Phosphines via Pd catalyzed P-C Cross-Coupling Reaction (Grad. Sch. Sci., Eng., Ehime Univ.) ○NAKASHIMA, Yoshiki; ITO, Yuki; WATANABE, Yutaka; OHTA, Hidetoshi; HAYASHI, Minoru
- 3PC-143** Synthesis of Vinyl Ethers Catalyzed by DMF-protected Metal Nanoclusters (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○ITO, Satoshi; OIKAWA, Kei; OBORA, Yasushi
- 3PC-144** DMF-protected Pd nanoclusters catalyzed carbon-silicon bond formation reactions (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○ISHIMOTO, Shinya; OKA, Hideo; OBORA, Yasushi
- 3PC-145** Regioselectivity in the cross-addition reaction of silyl acetylenes to conjugated alkynes (Fac. Sci., Shizuoka Univ.) ○YOSHIDA, Junpei; YAMAMOTO, Takuya; TSUKADA, Naofumi
- 3PC-146** New direct triflation of aromatic compounds using N,N'-diiodo-5,5-dimethylhydantoin (DIH) in the presence of TfOH (Dept. of Chem. Eng., NNCT) ○SHIBAJI, Kouki; KAMEI, Toshiyuki; SHIMADA, Toyoshi
- 3PC-147** Development of Hiyama-Hatanaka cross-coupling reaction using allylsilane as a silanol precursor (Dept. of Chem. Eng., NNCT) KAMEI, Toshiyuki; ○KIMURA, Shiori; MATSUURA, Arisa; SHIMADA, Toyoshi
- 3PC-148** Catalytic phosphinylation of aryl halides by palladium nanoparticle prepared via on-site reduction on marshmallow-like hydridosilica (Dept. of Chem. Eng., NNCT; Grad. Sch. Sci., Kyoto Univ.) ○YOSHIDA, Toru; KANAMORI, Kazuyoshi; KAMEI, Toshiyuki; NAKANISHI, Kazuki; SHIMADA, Toyoshi
- 3PC-149** C-H selective arylation of N-functionalized bromimidazoles and its application (Fac. Eng., Gifu Univ.) ○HAYANO, Teppei; YAMAUCHI, Takayuki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 3PC-150** Synthesis of Chiral Bicyclic NHC/Phosphine Ligands and Their Application to the Palladium Catalyzed Asymmetric Allylic Alkylation (Grad. Sch. Sci., Chiba Univ.) ○KATO, Mizuki; KUWABARA, Hiroshi; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 3PC-151** Rhenium-catalyzed Synthesis of α -Alkyl Carbonyl Compounds by the Reaction of Alcohol and Vinyl Acetate (Fac. Chem. Materials and

- Bioeng., Kansai Univ.; Fac. Chem. Materials and Bioeng., Kansai Univ.)
○YAMAMOTO, Takaaki; TAKAHASHI, Yuuki; UMEDA, Rui;
NISHIYAMA, Yutaka
- 3PC-152** Synthesis of Isocoumarins by the Rhenium-catalyzed 6-Endo Cyclization of *o*-Ethynylbenzoic Acids (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○YAMASHITA, Koji; YOSHIKAWA, Syunya; UMEDA, Rui; NISHIYAMA, Yutaka
- 3PC-153** Rhodium-Catalyzed [2+2+2] Cycloaddition of α, ω -Diyne with Cyclic Enol Ethers (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Sci., Eng., Tokyo Tech; JST ACT-C) ○TORIYAMA, Shino; KIMURA, Yuki; TANAKA, Ken
- 3PC-154** Rhodium-Catalyzed [2+2+2] Cycloaddition of Unsymmetrical Electron-Deficient Internal Alkynes with Silylacetylenes (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Sci., Eng., Tokyo Tech; JST ACT-C) ○HEYA, Arisa; HARA, Jun; TANAKA, Ken
- 3PC-155** Dehydrogenation of Alcohols and Diols Catalyzed by Ruthenium Complexes Bearing a Functional Bipyridonate Ligand (Kyoto Univ. Graduate School of Human and Environmental Studies) ○TOYOMURA, Kazuki; SANO, Hayato; YAMAGUCHI, Ryohei; FUJITA, Ken-ichi
- 3PC-156** Reaction of Transition Metal Complexes Bearing Tridentate Pincer Ligands with N₂O (Grad. Sch. Sci., Eng., Tokyo Tech) ○IKEHARA, Yuriko; SASE, Shohei; GOTO, Kei
- 3PC-157** Synthesis and Characterization of Ruthenium(II)- η^6 -heterohelicene Complexes (Grad. Sch. Sci. Technol., Kumamoto Univ.) IRIE, Ryo; ○HIRANO, Ryota; MOROKUMA, Toru; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3PC-158** Tris(pentafluorophenyl)borane-catalyzed efficient transformation from nitriles to aldehydes (Dept. of Chem. Eng., NNCT) ○HIRATA, Shunsuke; KAMEI, Toshiyuki; SHIMADA, Toyoshi
- 3PC-159** Asymmetric α -Trifluoromethylation of Alkenyl Trifluoroacetates Using Chiral Tin Catalysis (Fac. Sci., Chiba Univ.) ○HORIGUCHI, Moe; IDA, Kazuki; YANAGISAWA, Akira
- 3PC-160** Low-valent Titanium-Catalyzed Deprotection Reaction of Allyl Carbamates (Fac. Eng., Kanagawa Univ.) ○TANABE, Yuuki; TAKAGI, Hiromasa; MATSUNO, Chikashi; OKAMOTO, Sentaro
- 3PC-161** Preparation of new chiral binaphthol ligand and the zinc-complex-catalyzed kinetic resolution of alcohols. (Dept. of Chem. Eng., NNCT) ○MASUI, Yu; KAMEI, Toshiyuki; SHIMADA, Toyoshi
- 3PC-162** Zinc-Catalyzed Oxidative Annulation of 3-Alkenylindoles with Nitriles (Sch. Sci. Eng., Meiji Univ.) ○MIYAZAKI, Hironori; TSUCHIMOTO, Teruhisa
- 3PC-163** Zinc-Catalyzed Dehydrogenative Silylation of Indenes with Hydro-silanes (Sch. Sci. Eng., Meiji Univ.) ○SHIBATA, Daisuke; TSUCHIMOTO, Teruhisa