

Program

Room S1

Fourth Building, Section B J11

Sustainable and Functional Redox Chemistry

Thursday, March 16, AM

(9 : 30 ~ 9 : 35)

1S1-01 Special Program Lecture Opening Remarks (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○INAGI, Shinsuke (09:30~09:35)

Chair: ATOBE, Mahito (9 : 35 ~ 10 : 50)

1S1-02 Special Program Lecture Polymer Redox Chemistry toward Functional Materials (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○INAGI, Shinsuke (09:35~09:50)

1S1-03 Special Program Lecture Organic Redox Chemistry Enables Automated Solution-Phase Synthesis of Oligosaccharides (Grad. Sch. Eng., Tottori Univ.) ○NOKAMI, Toshiki (09:50~10:10)

1S1-04 Special Program Lecture Redox Regulation of Functional Dyes and Their Applications to Optoelectronic Devices (Fac. Eng., Hiroshima Univ.) ○OOYAMA, Yousuke (10:10~10:30)

1S1-05 Special Program Lecture Molecular Constructions Based on the Concerted Redox Chemistry of Electro-organic and Organometallic Reactions (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○MITSUDO, Koichi (10:30~10:50)

Chair: SUGA, Seiji (10 : 50 ~ 11 : 50)

1S1-06 Special Program Lecture C-H Functionalizations Based on Organic Redox Chemistry (Grad. Sch. Eng., Kyoto Univ.) ○SHIMIZU, Akihiro (10:50~11:10)

1S1-07 Special Program Lecture Carbon-carbon bond formation based on redox chemistry (Grad. Sch. Eng., Osaka Univ.) ○AMAYA, Toru (11:10~11:30)

1S1-08 Special Program Lecture Sustainable Molecular Transformation by Bioinspired Catalyst with Unique Redox Property (Grad. Sch. Eng., Kyushu Univ.) ○SHIMAKOSHI, Hisashi (11:30~11:50)

Chair: ITOH, Toshiyuki (11 : 50 ~ 12 : 30)

1S1-09 Special Program Lecture Prospects for Organic Redox Chemistry (Grad. Sch. Eng., Kyoto Univ.) ○YOSHIDA, Jun-ichi (11:50~12:30)

Frontiers in Artificial Photosynthesis 2017

Thursday, March 16, PM

(13 : 30 ~ 13 : 40)

1S1-10 Medium and Long-Term Program Lecture Opening remark (Grad. Sch. Urban Environmental Sci., TMU) ○INOUE, Haruo (13:30~13:40)

Chair: INAGAKKI, Shinji (13 : 40 ~ 14 : 05)

1S1-11 Medium and Long-Term Program Lecture Recent investigation of light-harvesting processes in photosynthesis (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○TAMIAKI, Hitoshi (13:40~14:05)

Chair: YAGI, Masayuki (14 : 05 ~ 14 : 30)

1S1-12 Medium and Long-Term Program Lecture New development of water oxidation (Grad. Sch. Urban Environmental Sci., TMU) Fazalurahaman Kuttassery; Siby Mathew; Sebastian Nybin Remello; Arun Thomas; YAMAMOTO, Daisuke; ONUKI, Satomi; NABETANI, Yu; TACHIBANA, Hiroshi; ○INOUE, Haruo (14:05~14:30)

Chair: MAEDA, Kazuhiko (14 : 30 ~ 14 : 55)

1S1-13 Medium and Long-Term Program Lecture Highly Efficient Hydrogen Production by Water Splitting using Visible Light Responsive Photocatalyst Materials (Fac. Sci., TUS) ○KUDOH, Akihiko (14:30~14:55)

Chair: MORIKAWA, Takeshi (14 : 55 ~ 15 : 20)

1S1-14 Medium and Long-Term Program Lecture Visible-light CO₂ Photoreduction (Sch. Sci., Tokyo Tech.) ○ISHITANI, Osamu (14:55~15:20)

Chair: INOUE, Haruo (15 : 30 ~ 15 : 55)

1S1-15 Medium and Long-Term Program Lecture Artificial Photosynthesis of Ammonia (RIES, Hokkaido Univ.) ○MISAWA, Hiroaki (15:30~15:55)

Chair: INOUE, Haruo (15 : 55 ~ 16 : 20)

1S1-16 Medium and Long-Term Program Lecture Mechanism of water-splitting by photosystem II using the energy of visible light (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○SHEN, Jian-ren (15:55~16:20)

Chair: TAMIAKI, Hitoshi (16 : 20 ~ 16 : 45)

1S1-17 Medium and Long-Term Program Lecture Excited State Molecular Dynamics of Natural and Artificial Photosynthesis (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○HASHIMOTO, Hideki (16:20~16:45)

Chair: ISHITANI, Osamu (16 : 45 ~ 17 : 10)

1S1-18 Medium and Long-Term Program Lecture Recent progress on artificial photosynthesis system based on semiconductor photocatalysts (Grad. Sch. Eng., Kyoto Univ.) ○ABE, Ryu (16:45~17:10)

(17 : 10 ~ 17 : 20)

1S1-19 Medium and Long-Term Program Lecture Closing remark (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○SHEN, Jian-ren (17:10~17:20)

Transformative chemistry conducted by multiple extremes

Sunday, March 19, AM

(9 : 30 ~ 9 : 40)

4S1-01 Special Program Lecture Outline of the symposium (Fac. Sci., Okayama Univ.) ○OHKUBO, Takahiro (09:30~09:40)

Chair: OHKUBO, Takahiro (9 : 40 ~ 11 : 00)

4S1-02 Special Program Lecture Control/Use of Reaction Nanospace in Metal-Organic Frameworks (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KONDO, Atsushi (09:40~10:00)

4S1-03 Special Program Lecture Hydrophobic effect in a variety of environments (Okayama Univ. RIIS; Fac. Sci., Okayama Univ.) ○KOGA, Kenichiro (10:00~10:20)

4S1-04 Special Program Lecture Molecular Assembling Behavior on Biomimetic Surface under Electrical Perturbation (Grad. Sch. Eng., The Univ. of Tokyo) ○ITOH, Yoshimitsu (10:20~10:40)

4S1-05 Special Program Lecture Self-organizations under various equilibrium/non-equilibrium reaction fields (Fac. Sci., Yamagata Univ.) ○NABIKI, Hideki (10:40~11:00)

Chair: OGURA, Taku (11 : 10 ~ 12 : 30)

4S1-06 Special Program Lecture Stabilizing Water clusters in Super-critical CO₂ by Molecular Assemblies Having Hydrocarbon Nano-domains (Grad. Sch. Sci. Tech., Hiroshima Univ.) ○SAGISAKA, Masanobu; YOSHIZAWA, Atsushi; EASTOE, Julian (11:10~11:30)

4S1-07 Special Program Lecture Ultrafast dynamics of water at interfaces visualized by novel interface selective nonlinear spectroscopy (Molecular Spectroscopy Lab., RIKEN) ○NIHONYANAGI, Satoshi (11:30~11:50)

4S1-08 Special Program Lecture Characterization of confined liquid between surfaces of various materials (IMRAM, Tohoku Univ.) ○KASUYA, Motohiro (11:50~12:10)

4S1-09 Special Program Lecture In situ observation of electrochemical reactions at solid / liquid interfaces by X-ray Techniques (AMCP, NIMS) ○MASUDA, Takuya (12:10~12:30)

Molecular science based on single molecular chemistry

Sunday, March 19, PM

(13 : 30 ~ 13 : 35)

4S1-10 Special Program Lecture Introduction (ISIR, Osaka Univ.) ○TANIGUCHI, Masateru (13:30~13:35)

Chair: TANIGUCHI, Masateru (13 : 35 ~ 14 : 45)

4S1-11 Special Program Lecture Atomic level structural control and catalytic application of inorganic nanoparticles (I₂CNER, Kyushu Univ.)

○YAMAUCHI, Miho (13:35~14:05)

4S1-12 Special Program Lecture Simulation of functional device materials: From single molecule to topological insulating materials (CD-FMat, AIST) ○NAKAMURA, Hisao (14:05~14:25)

4S1-13 Special Program Lecture Theoretical study on the robust control of single spin on single molecular junctions (MCES, Tokyo Tech.) ○TADA, Tomofumi (14:25~14:45)

Chair: TADA, Tomofumi (14 : 55~16 : 25)

4S1-14 Special Program Lecture Creation of Single Crystalline Oxide Nanowires Based on Spatial Selectivity of Molecules, and their applications to Non-volatile Memory and Molecule Sensors (IMCE, Kyushu Univ.) ○YANAGIDA, Takeshi (14:55~15:25)

4S1-15 Special Program Lecture Real-space investigation of energy transfer between two molecules by single-molecule emission/absorption spectroscopy (RIKEN SISL) ○KIM, Yousoo (15:25~15:45)

4S1-16 Special Program Lecture Single molecular memory (Grad. Sch. Sci., Eng., Tokyo Tech.) ○KIGUCHI, Manabu (15:45~16:05)

4S1-17 Special Program Lecture Current rectification based on electric field induced deformations of molecular orbitals (Grad. Sch. Eng. Sci., Osaka Univ.) ○YAMADA, Ryo; ALBRECHT, Ken; OHTO, Tatsuhiko; MINODE, Keigo; KIMIHISA, Yamamoto; HIROKAZU, Tada (16:05~16:25)

Room S2

Fourth Building, Section B J24

Challenges of chemistry to create innovative analysis of cell systems

Thursday, March 16, AM

(9 : 30 ~9 : 35)

1S2-01 Special Program Lecture Explanation of the aim (Grad. Sch. Eng., Nagoya Univ.) ○KASHIDA, Hiromu; AKIYOSHI, Kazunari (09:30~09:35)

Chair: TAKAHASHI, Yasufumi (9 : 35 ~10 : 50)

1S2-02 Special Program Lecture Massively parallel single-cell genomics for elucidation of cellular heterogeneity (Research Org. for Nano & Life Innovation, Waseda Univ.) ○HOSOKAWA, Masahito (09:35~10:00)

1S2-03 Special Program Lecture Development of Polymer Nanosheets for Bio-Sensing Applications (WIAS; PRESTO, JST) ○FUJIE, Toshinori (10:00~10:25)

1S2-04 Special Program Lecture Construction of stable lipid bilayers using microfabricated devices and its application. (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KAWANO, Ryuji (10:25~10:50)

Chair: HOSOKAWA, Masahito (10 : 50~11 : 40)

1S2-05 Special Program Lecture Ultra-sensitive CE-MS System for Single Cell Omics (RIKEN QBiC) ○KAWAI, Takayuki (10:50~11:15)

1S2-06 Special Program Lecture Single cell and single molecule analysis by extended-nano fluidic device (Grad. Sch. Eng., The Univ. of Tokyo) ○MAWATARI, Kazuma (11:15~11:40)

Chair: KASHIDA, Hiromu (11 : 40~12 : 30)

1S2-07 Special Program Lecture Detection of LacZ-Positive Cells in Living Tissue with Single-Cell Resolution. (Grad. Sch. Med., The Univ. of Tokyo) ○KAMIYA, Mako; URANO, Yasuteru (11:40~12:05)

1S2-08 Special Program Lecture Development of Super-photostable Fluorescent Dyes for Single Cell Analysis (WPI-ITbM, Nagoya Univ.) ○TAKI, Masayasu (12:05~12:30)

Molecular Science for Complex Systems: Novel Functions of Soft Molecules Explored by Collaboration of Theory, Measurements and Synthesis

Thursday, March 16, PM

(13 : 30~13 : 35)

1S2-09 Medium and Long-Term Program Lecture Opening remarks: New molecular functions explored by interplay of theory, measurement and synthesis (Molecular Spectroscopy Lab., RIKEN) ○TAHARA, Tahei (13:30~13:35)

Chair: FUJII, Masaaki (13 : 35~14 : 00)

1S2-10 Medium and Long-Term Program Lecture Frontier of sum-frequency generation study on water surface explored by collaboration of experiment and theory (1) (Grad. Sch. Sci., Tohoku Univ.) ○MORITA, Akihiro; TAHARA, Tahei (13:35~13:45)

1S2-11 Medium and Long-Term Program Lecture Frontier of

sum-frequency generation study on water surface explored by collaboration of experiment and theory (2) (Molecular Spectroscopy Lab., RIKEN; Grad. Sch. Sci., Tohoku Univ.) MORITA, Akihiro; ○TAHARA, Tahei (13:45~14:00)

Chair: MIZUTANI, Yasuhisa (14 : 00~14 : 50)

1S2-12 Medium and Long-Term Program Lecture Hydrogen-bond structure of biological molecular recognition systems studied by gas-phase infrared spectroscopy and anharmonic vibrational calculations (1) (RIKEN, Theoretical Molecular Science Laboratory) ○YAGI, Kikyoshi; FUJII, Masaaki (14:00~14:10)

1S2-13 Medium and Long-Term Program Lecture Hydrogen-bond structure of biological molecular recognition systems studied by gas-phase infrared spectroscopy and anharmonic vibrational calculations (2) (IIR, Tokyo Tech.) YAGI, Kikyoshi; ○FUJII, Masaaki (14:10~14:25)

1S2-14 Medium and Long-Term Program Lecture Target DNA sequence search mechanism of p53 studied by single-molecule experiments and molecular dynamics simulations (1) (IMCB, The Univ. of Tokyo) ○KITAO, Akio; KAMAGATA, Kiyoto; TAKAHASHI, Satshi (14:25~14:35)

1S2-15 Medium and Long-Term Program Lecture Target DNA sequence search mechanism of p53 studied by single-molecule experiments and molecular dynamics simulations (2) (IMRAM, Tohoku Univ.) KITAO, Akio; ○KAMAGATA, Kiyoto; TAKAHASHI, Satshi (14:35~14:50)

Chair: KITAO, Akio (14 : 50~15 : 40)

1S2-16 Medium and Long-Term Program Lecture Host Capability and Dynamic Behavior of Polyaromatic Supramolecular Capsules (Dep. Chem., Sch. Sci., Kyoto Univ.) ○HAYASHI, Shigehiko; YOSHIZAWA, Michito (14:50~15:00)

1S2-17 Medium and Long-Term Program Lecture Host Capability and Dynamic Behavior of Polyaromatic Supramolecular Capsules (2) (IIR, Tokyo Tech.) HAYASHI, Shigehiko; ○YOSHIZAWA, Michito (15:00~15:15)

1S2-18# Medium and Long-Term Program Lecture Experimental and Theoretical Approach to (Extended Conjugated Unsaturated Hydrocarbon)-(Metal Cluster) Hybrid Compounds (1) (Dep. Chem., Sch. Sci., Kyoto Univ.) ○KURASHIGE, Yuki; MURAHASHI, Tetsuro (15:15~15:25)

1S2-19 Medium and Long-Term Program Lecture Experimental and Theoretical Approach to (Extended Conjugated Unsaturated Hydrocarbon)-(Metal Cluster) Hybrid Compounds (2) (Sch. Mater. & Chem. Tech., Tokyo Tech.; Dep. Chem., Sch. Sci., Kyoto Univ.) KURASHIGE, Yuki; ○MURAHASHI, Tetsuro (15:25~15:40)

Chair: KANDORI, Hideki (15 : 50~16 : 15)

1S2-20 Medium and Long-Term Program Lecture Study for Softness Origin in Alkylated- π Liquid Molecules by Ultrafast Spectroscopy on Excited State Dynamics of Pyrenes (1) (MANA, NIMS) ○NAKANISHI, Takashi; TAKAYA, Tomohisa (15:50~16:00)

1S2-21 Medium and Long-Term Program Lecture Study for Softness Origin in Alkylated- π Liquid Molecules by Ultrafast Spectroscopy on Excited State Dynamics of Pyrenes (2) (Fac. Sci., Gakushuin Univ.) NAKANISHI, Takashi; ○TAKAYA, Tomohisa (16:00~16:15)

Chair: TAHARA, Tahei (16 : 15~17 : 25)

1S2-22 Medium and Long-Term Program Lecture Elucidation of mechanisms of protein function by functional conversion and structural analysis (1) (Grad. Sch. Sci., Osaka Univ.) ○MIZUTANI, Yasuhisa; KANDORI, Hideki (16:15~16:25)

1S2-23 Medium and Long-Term Program Lecture Elucidation of mechanisms of protein function by functional conversion and structural analysis (Grad Sch. Eng., Nagoya Inst. of Tech.) MIZUTANI, Yasuhisa; ○KANDORI, Hideki (16:25~16:40)

1S2-24# Medium and Long-Term Program Lecture Photosynthetic Light Harvesting: From Molecules to Membranes. (UC Berkeley) ○FLEMING, Graham (16:40~17:25)

(17 : 25~17 : 30)

1S2-25 Medium and Long-Term Program Lecture Closing Remarks (IIR, Tokyo Tech.) ○FUJII, Masaaki (17:25~17:30)

Various battery technologies for creating the interdisciplinary science

Sunday, March 19, AM

(9 : 30 ~9 : 40)

4S2-01 Special Program Lecture Explanation of aim (Sch. Adv. Eng., Kogakuin Univ.) ○NAGAI, Hiroki (09:30~09:40)

Chair: MATSUMURA, Yuriko (9 : 40 ~10 : 40)

4S2-02 Special Program Lecture R&D trend and international benchmark in energy field (CRDS, JST) ○SHIMAZU, Hiromoto (09:40~10:20)

4S2-03 Special Program Lecture Environmental Activities in the

industry (Adv. Tech. R&D Center, Mitsubishi Electric Co.) ○WADA, Noboru (10:20~10:40)

Chair: WADA, Noboru (10 : 40~11 : 10)

4S2-04# Special Program Lecture Electrochemical Energy Storage (NUS) ○LU, Li (10:40~11:10)

Chair: NAGAI, Hiroki (11 : 10~12 : 00)

4S2-05 Special Program Lecture Current status and further trend of PV system (Mitsubishi Electric Co.) ○KOJIMA, Ikumasa (11:10~11:30)

4S2-06 Special Program Lecture Photovoltaic lithium-ion battery -the interface of Chemistry and Physics- (Sch. Adv. Eng., Kogakuin Univ.) ○SATO, Mitsunobu; NAGAI, Hiroki (11:30~12:00)

Room S3

Fourth Building, Section B J29

Chemical Approaches for Miscellaneous / Crowding Living Systems

Thursday, March 16, AM

(9 : 30 ~ 9 : 31)

1S3-01 Special Program Lecture Chemistry for miscellaneous / crowding biological systems (Grad. Sch. Eng., Kyoto Univ.) ○HAMACHI, Itaru (09:30~09:31)

Chair: HAMACHI, Itaru (9 : 31 ~ 10 : 30)

1S3-02 Special Program Lecture Function and Regulation of Nucleic Acids under Molecular Crowding Conditions (FIBER, Konan Univ.) ○SUGIMOTO, Naoki (09:31~10:00)

1S3-03 Special Program Lecture Crowding effects in biomolecular simulations (Grad. Sch. Sys. Info., Kobe Univ.) ○TANAKA, Shigenori (10:00~10:30)

Chair: BABA, Yoshinobu (10 : 30~11 : 30)

1S3-04 Special Program Lecture Miscellaneous organic chemistry for drug discovery (Grad. Sch. Pharm., Kyushu Univ.) ○OJIDA, Akio (10:30~11:00)

1S3-05 Special Program Lecture Chemical approaches for regulation of plant functions in miscellaneous systems (Grad. Sch. Sci., Nagoya Univ.) ○HAGIHARA, Shinya (11:00~11:30)

Chair: SUGIMOTO, Naoki (11 : 30~12 : 30)

1S3-06 Special Program Lecture Nanobiodevice for Diagnosis of Cancer Cell and Extracellular Vesicles by using Molecular Crowding Functionalized Molecules (Grad. Sch. Eng., Nagoya Univ.) ○BABA, Yoshinobu (11:30~12:00)

1S3-07 Special Program Lecture Molecular precision medicine of impurities and heterogeneities in brain tumors (Grad. Sch. Med., Nagoya Univ.) ○NATSUME, Atsushi; SANDO, Akane; OHKA, Fumiharu; SUZUKI, Hiromichi; AOKI, Kosuke; KASAMA, Toshihiro; WAKABAYASHI, Toshihiko; KATO, Yukinari; BABA, Yoshinobu (12:00~12:30)

Molecular Design and Molecular Technology: Creation of New Functions for Development and Innovation in Society

Thursday, March 16, PM

(13 : 30~13 : 35)

1S3-08 Medium and Long-Term Program Lecture Opening Remarks (Grad. Sch. Eng., The Univ. of Tokyo) ○KATO, Takashi (13:30~13:35)

Chair: KATO, Takashi (13 : 35~13 : 40)

1S3-09 Medium and Long-Term Program Lecture Molecular Technology (Inst. Sci. Tech. Res., Chubu Univ.) ○YAMAMOTO, Hisashi (13:35~13:40)

Chair: YOSHINARI, Nobuto (13 : 40~14 : 25)

1S3-10 Medium and Long-Term Program Lecture Development of Nano Carbon Materials Synthesized by Solution Plasma Chemistry (Grad. Sch. Eng., Nagoya Univ.) ○UENO, Tomonaga; HIEDA, Junko; SAITO, Nagahiro (13:40~13:55)

1S3-11 Medium and Long-Term Program Lecture Magnetic ordering and slow relaxation of magnetization in two-dimensional magnets composed of single-chain magnet (Grad. Sch. Sci., Tohoku Univ.) ○KAGEYAMA, Kouichi (13:55~14:10)

1S3-12 Medium and Long-Term Program Lecture Synthesis and

Characterization of Single-Molecule Magnet encapsulated in Carbon Nanotube (Grad. Sch. Sci., Tohoku Univ.) ○NAKANISHI, Ryo (14:10~14:25)

Chair: KATO, Takayuki (14 : 25~15 : 25)

1S3-13 Medium and Long-Term Program Lecture Synthesis and Ionic Conductivity of Ionic Solids Based on S-bridged Multiunuclear Complex Anions (Grad. Sch. Sci., Osaka Univ.) ○YOSHINARI, Nobuto (14:25~14:40)

1S3-14 Medium and Long-Term Program Lecture Molecular technology for controlling protein modification by small molecules (Grad. Sch. of Med. Sci., Kyoto Pref. Univ. of Med.) ○ITO, Yukihiko (14:40~14:55)

1S3-15 Medium and Long-Term Program Lecture Adsorbed water on graphene surface (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○AKAISHI, Akira; NAKAMURA, Jun (14:55~15:20)

1S3-16 Medium and Long-Term Program Lecture Introduction of Molecular Technology, PRESTO (Grad. Sch. Eng., The Univ. of Tokyo) ○KATO, Takashi (15:20~15:25)

Chair: YANAI, Nobuhiro (15 : 25~16 : 10)

1S3-17 Medium and Long-Term Program Lecture Development of molecular technologies for synthesizing mirror-image proteins and nucleic acids (Fac. Sci., The Univ. of Tokyo) ○KATO, Takayuki (15:25~15:40)

1S3-18 Medium and Long-Term Program Lecture Development of brain regeneration device using artificial protein activated under hypoxia (CBIR, Tokyo Med. and Dental Univ.; PRESTO, JST) ○AJIOKA, Itsuki (15:40~15:55)

1S3-19 Medium and Long-Term Program Lecture Therapeutic In Vivo Synthetic Chemistry: Synthesis of Bioactive Compounds in Live Mice (RIKEN, Biofunctional Synthetic Chemistry Laboratory) ○TANAKA, Katsunori (15:55~16:10)

Chair: TANAKA, Katsunori (16 : 10~17 : 10)

1S3-20 Medium and Long-Term Program Lecture Design and fabrication of hydrogel system formed from critical gelation clusters (Grad. Sch. Eng., The Univ. of Tokyo) ○SAKAI, Takamasa (16:10~16:25)

1S3-21 Medium and Long-Term Program Lecture Theoretical modeling of the high-order electronic functions of organic molecular aggregates (Dep. Chem., Sch. Sci., Kyoto Univ.) ○KURASHIGE, Yuki (16:25~16:40)

1S3-22 Medium and Long-Term Program Lecture Molecular alignment technology by dynamic lighting (Lab. Chem. Life Sci., Tokyo Tech.) ○SHISHIDO, Atsushi (16:40~16:55)

1S3-23 Medium and Long-Term Program Lecture Molecular technology of photon upconversion (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST) ○YANAI, Nobuhiro (16:55~17:10)

(17 : 10~17 : 25)

1S3-24 Medium and Long-Term Program Lecture Closing Remarks (Grad. Sch. Eng., The Univ. of Tokyo) ○KATO, Takashi (17:10~17:25)

Frontier of Dynamics on Surface and Interface Coordination Chemistry: Toward Functionalities from Structures

Friday, March 17, PM

Chair: HASEGAWA, Miki (13 : 30~15 : 30)

2S3-01 Medium and Long-Term Program Lecture Frontier of Quantum Molecular Spintronics Based on Single-Molecule Magnets on Au Surface (Grad. Sch. Sci., Tohoku Univ.) ○YAMASHITA, Masahiro (13:30~14:15)

2S3-02 Medium and Long-Term Program Lecture Development and functionality of graphene oxide hybrids (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○HAYAMI, Shinya (14:15~14:45)

2S3-03 Medium and Long-Term Program Lecture Photovoltaic and photodetecting devices with organic inorganic hybrid perovskite semiconductors (Fac. Bio. Eng., Toin Univ. of Yokohama) ○MIYASAKA, Tsutomu (14:45~15:30)

Chair: TADA, Mizuki (15 : 30~17 : 30)

2S3-04 Medium and Long-Term Program Lecture Interfacial Synthesis of Low-dimensional Coordination Networks and Their Physical and Chemical Properties (Grad. Sch. Sci., The Univ. of Tokyo) ○NISHIHARA, Hiroshi (15:30~16:15)

2S3-05 Medium and Long-Term Program Lecture Liquid-phase interfacial synthesis of porous coordination polymer nanosheets (Grad. Sch. Eng., Osaka Pref. Univ.) ○MAKIURA, Rie (16:15~16:45)

2S3-06 Medium and Long-Term Program Lecture Chemical Functions of Molecular Heterojunction Composed of Metal Complexes/Metal Organic Frameworks on Surface (Fac. Sci. Eng., Chuo Univ.) ○HAGA,

Masaaki (16:45~17:30)

Fundamentals and Applications of Synchrotron-based SAXS Measurement

Sunday, March 19, AM

(9 : 30 ~ 9 : 35)

4S3-01 Special Program Lecture Opening Remarks (ICR, Kyoto Univ.) ○TAKAYA, Hikaru (09:30~09:35)

Chair: TAKAYA, Hikaru (9 : 35 ~ 12 : 25)

4S3-02 Special Program Lecture Synchrotron Small Angle X-ray Scattering (ICR, Kyoto Univ.; RIKEN Spring-8 Center) ○TAKENAKA, Mikito (09:35~10:05)

4S3-03 Special Program Lecture Small-Angle X-ray Scattering beamlines at the Synchrotron Facilities. (KEK) ○SHIMIZU, Nobutaka (10:05~10:35)

4S3-04 Special Program Lecture Dynamic structure and mechanical property analysis of polymer materials using small-angle x-ray scattering (IMCE, Kyushu Univ.) ○KOJIO, Ken (10:35~11:05)

4S3-05 Special Program Lecture Industrial Application of Small-angle X-ray Scattering (KEK) ○KANAYA, Toshiji (11:05~11:25)

4S3-06 Special Program Lecture Small Angle X-ray Scattering of Polymer Films (Toray Research Center, Inc.) ○OKASA, Kazuyuki (11:25~11:55)

4S3-07 Special Program Lecture Hydration behavior of amphiphilic block copolymer thin film using GISAXS (KURARAY CO., LTD.) ○KAMATA, Yohei (11:55~12:25)

(12 : 25 ~ 12 : 30)

4S3-08 Special Program Lecture comments (KEK) ○KANAYA, Toshiji (12:25~12:30)

Coordination Asymmetry: Science of Asymmetric Structures and Functions

Sunday, March 19, PM

(13 : 30 ~ 13 : 35)

4S3-09# Special Program Lecture Opening remarks (Grad. Sch. Sci., The Univ. of Tokyo) ○SHIONOYA, Mitsuhiro (13:30~13:35)

Chair: UEMURA, Takashi (13 : 35 ~ 14 : 25)

4S3-10# Special Program Lecture Absolute structure determination by the crystalline sponge method: applications to asymmetric synthesis and natural product chemistry (Grad. Sch. Eng., The Univ. of Tokyo) ○FUJITA, Makoto (13:35~14:00)

4S3-11# Special Program Lecture Biohybrid Catalysts with a Protein Scaffold, an Asymmetric Second Coordination Sphere (Grad. Sch. Eng., Osaka Univ.) ○HAYASHI, Takashi (14:00~14:25)

Chair: TERANISHI, Toshiharu (14 : 25 ~ 15 : 15)

4S3-12# Special Program Lecture Local optical activity of nanomaterials (PMS, IMS) ○OKAMOTO, Hiromi (14:25~14:50)

4S3-13# Special Program Lecture Development of asymmetric magnetic coordination compounds (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○TOKORO, Hiroko; OHKOSHI, Shin-ichi (14:50~15:15)

Chair: KIMIZUKA, Nobuo (15 : 15 ~ 15 : 40)

4S3-14# Special Program Lecture Optical Activity in Chiral Nanoparticle system (Grad. Sch. Mat. Sci., NAIST) ○NAKASHIMA, Takuya (15:15~15:40)

Chair: SHIONOYA, Mitsuhiro (15 : 40 ~ 16 : 25)

4S3-15# Special Program Lecture Asymmetric photoredox catalysis with chiral-at-metal complexes (Philipps-Univ. Marburg) ○ERIC, Meggers (15:40~16:25)

(16 : 25 ~ 16 : 30)

4S3-16# Special Program Lecture Concluding remarks (Mitsui Chemicals, Incorporated) ○KAWASHIMA, Nobuyuki (16:25~16:30)

Room S4

Fourth Building, Section B 32

Science of Two-dimensional Materials — A New World Generated by Graphene and Other Molecular Nanosheets

Thursday, March 16, AM

(9 : 30 ~ 9 : 35)

1S4-01 Special Program Lecture Opening remarks (Grad. Sch. Sci., The Univ. of Tokyo) ○NISHIHARA, Hiroshi (09:30~09:35)

Chair: NISHIHARA, Hiroshi (9 : 35 ~ 12 : 30)

1S4-02 Special Program Lecture Molecular science of nanographene (Sch. Sci., Tokyo Tech.) ○ENOKI, Toshiaki (09:35~10:00)

1S4-03 Special Program Lecture Transport properties of graphene (Grad. Sch. Eng., The Univ. of Tokyo) ○NAGASHIO, Kosuke (10:00~10:25)

1S4-04 Special Program Lecture Fundamentals of inorganic nanosheets: Their broad aspects (Grad. Sch. Eng., KIT) ○NAKATO, Teruyuki (10:25~10:50)

1S4-05 Special Program Lecture Photo- and Optical-Functionalities of Hybrid Materials Consisting of Inorganic Nanosheets and Organic Compounds (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○KAWAMATA, Jun (10:50~11:15)

1S4-06 Special Program Lecture Applications of mesoporous sheets in optics (Canon Inc.) ○MIYATA, Hirokatsu (11:15~11:40)

1S4-07 Special Program Lecture Synthesis of Two-Dimensional Polymers Executed on Surfaces and at Interfaces (Grad. Sch. Eng. Sci., Osaka Univ.) ○TOBE, Yoshito (11:40~12:05)

1S4-08 Special Program Lecture Chemical Synthesis of Designer Two-Dimensional Polymers: From Molecular Strings to Molecular Sheets (ISIT) ○SAKAMOTO, Junji (12:05~12:30)

Frontiers of Functional Molecules Inspired by Biomolecular Chemistry: Approaches toward Functions beyond Biological Molecular Systems

Thursday, March 16, PM

(13 : 30 ~ 13 : 45)

1S4-09 Special Program Lecture Opening Remarks (Sch. Life Sci. Tech., Tokyo Tech.) ○KINBARA, Kazushi (13:30~13:45)

Chair: MATSUURA, Kazunori (13 : 45 ~ 14 : 40)

1S4-10 Special Program Lecture Finding the platonic micelles and their application to biomaterials (Fac. Env. Eng., The Univ. of Kitakyushu) ○SAKURAI, Kazuo (13:45~14:15)

1S4-11 Special Program Lecture Development of nanogel particles with tuned pKa values and protein mimic functions (Grad. Sch. Eng., Kyushu Univ.) ○HOSHINO, Yu (14:15~14:40)

Chair: UENO, Takafumi (14 : 40 ~ 15 : 30)

1S4-12 Special Program Lecture Designing and synthesizing novel biomolecular motors (KARC, NICT) ○FURUTA, Ken'ya (14:40~15:05)

1S4-13 Special Program Lecture Protein design from nano module library (Grad. Sch. Eng., Tohoku Univ.) ○UMETSU, Mitsuo (15:05~15:30)

Chair: MIYOSHI, Daisuke (15 : 30 ~ 16 : 20)

1S4-14 Special Program Lecture Biomimetic design of antimicrobial agents beyond natural peptides (Grad. Sch. Mat. Sci., NAIST) ○YASUHARA, Kazuma (15:30~15:55)

1S4-15 Special Program Lecture Super functional biomaterials by polyampholytes (Sch. Mat. Sci., JAIST) ○MATSUMURA, Kazuaki (15:55~16:20)

(16 : 20 ~ 16 : 30)

1S4-16 Special Program Lecture Closing remarks (Grad. Sch. Eng., Kyushu Univ.) ○KISHIMURA, Akihiro (16:20~16:30)

Ex vivo Biodevices - towards molecular understanding and application of cells and tissues and organs functions

Saturday, March 18, PM

(13 : 30 ~ 13 : 40)

3S4-01 Medium and Long-Term Program Lecture Opening re-

mark (Grad. Sch. Eng., Osaka Univ.) ○TAMIYA, Eiichi (13:30~13:40)

Chair: TAMIYA, Eiichi (13 : 40~14 : 45)

3S4-02# Medium and Long-Term Program Lecture Organ-on-a-Chip: The new paradigm in physiologically relevant cell culture (MIMETAS) ○PAUL, Vulto (13:40~14:15)

3S4-03 Medium and Long-Term Program Lecture Technical Aspect on Promising Organs-on-a-Chip (BRD, AIST) ○KANAMORI, Toshiyuki (14:15~14:45)

Chair: FUJITA, Satoshi (14 : 45~16 : 00)

3S4-04 Medium and Long-Term Program Lecture Development of Micro-Human Model for Pharmacokinetics (Grad. Sch. Sci. Tech., Gunma Univ.) ○SATO, Kiichi (14:45~15:15)

3S4-05 Medium and Long-Term Program Lecture Reconstitution of sympathetic nervous systems and their functional connections for cardiotoxicity (BRD, AIST) ○KIDA, Yasuyuki; TAKAYAMA, Yuzo; KUSHIGE, Hiroko; WAKABAYASHI, Tamami; MORITA, Yuika; TAKEUCHI, Jun (15:30~16:00)

Chair: SUGIURA, Shinji (16 : 00~17 : 00)

3S4-06 Medium and Long-Term Program Lecture Organ-on-a-chip microdevices to recapitulate bone marrow function (Hakubi Center, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○TORISAWA, Yusuke (16:00~16:30)

3S4-07 Medium and Long-Term Program Lecture The Current status and Issues of Cell-based Assay in DMPK and Safety -Expectation for next cell-based assay technology- (Eisai Co., Ltd.) ○KAKIKI, Motoharu (16:30~17:00)

(17 : 00~17 : 05)

3S4-08 Medium and Long-Term Program Lecture Closing remarks (BRI, AIST) ○FUJITA, Satoshi (17:00~17:05)

Science of Photofunctional Soft Crystals

Sunday, March 19, AM

(9 : 30 ~ 9 : 35)

4S4-01 Special Program Lecture Opening remarks (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○HASEGAWA, Miki (09:30~09:35)

Chair: HASEGAWA, Miki (9 : 35 ~ 10 : 05)

4S4-02 Special Program Lecture The Progress and future prospects of photofunctional softcrystals (Fac. Sci., Hokkaido Univ.) ○KATO, Masako (09:35~10:05)

Chair: KATO, Masako (10 : 05~10 : 35)

4S4-03 Special Program Lecture Introduction of the research on organosuperelasticity (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○TAKAMIZAWA, Satoshi (10:05~10:35)

Chair: HASEGAWA, Yasuchika (10 : 35~11 : 05)

4S4-04 Special Program Lecture Science and technology of functional phase transition materials (Grad. Sch. Sci., The Univ. of Tokyo) ○OHKOSHI, Shin-ichi (10:35~11:05)

Chair: ISHII, Kazuyuki (11 : 05~11 : 35)

4S4-05 Special Program Lecture Photonic soft matter with controlled function (Grad. Fac. Life Sci., Hokkaido Univ.) ○GONG, Jian Ping (11:05~11:35)

Chair: ITO, Hajime (11 : 35~12 : 05)

4S4-06 Special Program Lecture Mechanism of phase transition of "Soft Crystal" from crystal structure analysis (Sch. Sci., Tokyo Tech.) ○UEKUSA, Hidehiro (11:35~12:05)

(12 : 05~12 : 10)

4S4-07 Special Program Lecture Closing session (Hamamatsu Photonics K.K.) ○IKEMURA, Kenichiro (12:05~12:10)

Frontiers of Development of Luminescent Materials Supported by Recent Technologies in Emission Measurements

Sunday, March 19, PM

Chair: SAKAI, Ken (13 : 30~13 : 55)

4S4-08# Special Program Lecture Opening remark: background of the IUPAC project for publishing the guidelines for luminescence measurements (Grad. Sch. Sci., Kitasato Univ.) ○ISHIDA, Hitoshi (13:30~13:55)

Chair: NOZAKI, Koichi (13 : 55~14 : 30)

4S4-09# Special Program Lecture Avoiding common pitfalls in luminescence spectroscopy (Durham Univ., Kitasato Univ., Swiss Federal Inst. of

Tech. in Lausanne, Hong Kong Baptist Univ.) ○BEEBY, Andrew; ISHIDA, Hitoshi; BUNZLI, Jean-Claude (13:55~14:30)

Chair: HASEGAWA, Miki (14 : 30~15 : 05)

4S4-10# Special Program Lecture Evaluation of Circularly Polarized Luminescence from Lanthanide Complexes and Application to Chiral Sensing System (Fac. Sci., Univ. of Toyama) ○IWAMURA, Munetaka (14:30~15:05)

Chair: SUZUKI, Kengo (15 : 05~15 : 30)

4S4-11# Special Program Lecture Absolute emission quantum yield of singlet molecular oxygen in solution determined using an integrating sphere instrument (Grad. Sch. Sci. Tech., Gunma Univ.) ○TOBITA, Seiji; HASEBE, Naoya; YOSHIHARA, Toshitada; SUZUKI, Kengo (15:05~15:30)

Chair: KATO, Masako (15 : 30~15 : 55)

4S4-12# Special Program Lecture Fluorescence quantum yield measurements in highly purified organic crystals (Sch. Eng., Nihon Univ.) ○KATO, Ryuzi (15:30~15:55)

Chair: ISHII, Kazuyuki (15 : 55~16 : 20)

4S4-13# Special Program Lecture Estimation of the emission quantum yield for luminescent lanthanide materials (Grad. Sch. Eng., Hokkaido Univ.) ○HASEGAWA, Yasuchika (15:55~16:20)

(16 : 20~16 : 30)

4S4-14# Special Program Lecture Closing remark (Fac. Sci., Kyushu Univ.) ○SAKAI, Ken (16:20~16:30)

Room S5

Fourth Building, Section B 39

Chemical synthesis of biomacromolecules for Chemical Biology

Thursday, March 16, PM

(13 : 30~13 : 35)

1S5-01 Medium and Long-Term Program Lecture Opening Remarks (Grad. Sch. Sci., Osaka Univ.) ○KAJIHARA, Yasuhiro (13:30~13:35)

Chair: MURATA, Michio (13 : 35~14 : 15)

1S5-02 Medium and Long-Term Program Lecture Chemical biology studies on regulating higher-order structure and function of nucleic acids (ISIR, Osaka Univ.) ○NAKATANI, Kazuhiko (13:35~14:15)

Chair: FUJIMOTO, Yukari (14 : 15~14 : 55)

1S5-03 Medium and Long-Term Program Lecture Exploring functions of the endoplasmic reticulum by means chemical synthesis (RIKEN) ○ITO, Yukishige (14:15~14:55)

Chair: NAKATANI, Kazuhiko (14 : 55~15 : 35)

1S5-04 Medium and Long-Term Program Lecture Chemical synthesis of glycoconjugates for understanding of post-translational modification (Grad. Sch. Sci., Osaka Univ.) ○KAJIHARA, Yasuhiro (14:55~15:35)

Chair: FUKASE, Koichi (15 : 50~16 : 30)

1S5-05 Medium and Long-Term Program Lecture Synthesis of bacterial cell wall peptidoglycan and its functional analysis in biological defense mechanism (Fac. Sci. Tech., Keio Univ.) ○FUJIMOTO, Yukari (15:50~16:30)

Chair: KAJIHARA, Yasuhiro (16 : 30~17 : 10)

1S5-06 Medium and Long-Term Program Lecture Chemical Biology of Natural Products that interact with membrane lipids (Grad. Sch. Sci., Osaka Univ.) ○MURATA, Michio (16:30~17:10)

(17 : 10~17 : 30)

1S5-07 Medium and Long-Term Program Lecture discussion & Closing Remarks (Grad. Sch. Sci., Osaka Univ.) ○KAJIHARA, Yasuhiro (17:10~17:30)

Room S6

Fourth Building Independence Wing
DB203

Precise organic synthesis and functional materials based on molecular space

Thursday, March 16, AM

(9 : 30 ~ 9 : 35)

1S6-01 Special Program Lecture About this symposium (Grad. Sch. Fish. & Env. Sci., Nagasaki Univ.) ○SHIRAKAWA, Seiji (09:30~09:35)

Chair: SOTOME, Yoshihiro (9 : 35 ~ 11 : 15)

1S6-02 Special Program Lecture Construction of polymeric materials with supramolecules and control of molecular space and functions in macro scale (Grad. Sch. Sci., Osaka Univ.) ○TAKASHIMA, Yoshinori (09:35~10:05)

1S6-03 Special Program Lecture Development of functional π -electron systems by controlling aromaticity and conjugation (Elements Chem. Lab., RIKEN) ○MURANAKA, Atsuya (10:05~10:40)

1S6-04 Special Program Lecture Development of Multiselective Reactions Induced by Chiral Cavity of Catalysts (Grad. Sch. Eng., Nagoya Univ.) ○ISHIHARA, Kazuaki (10:40~11:15)

Chair: NAGATA, Yuuya (11 : 25 ~ 12 : 30)

1S6-05 Special Program Lecture π -Interaction Based Self-Assembly Salen Catalyst for Adaptive Reaction Control (Fac. Eng., TUS) ○IMAHORI, Tatsushi (11:25~11:55)

1S6-06 Special Program Lecture Construction of Functionalized Dissymmetric Supramolecular Spaces (Grad. Sch. Sci., The Univ. of Tokyo) ○SHIONOYA, Mitsuhiro (11:55~12:30)

Luminescence Chemistry Ensemble: New Trend in Chemistry through a Fusion of Chirality and Luminescence

Thursday, March 16, PM

(13 : 30 ~ 13 : 35)

1S6-07 Special Program Lecture an introduction and rationalization (Grad. Sch. Eng., Osaka Univ.) ○MORI, Tadashi (13:30~13:35)

Chair: AMIMOTO, Kiichi (13 : 35 ~ 14 : 05)

1S6-08 Special Program Lecture Luminescent Supramolecular Helical Assembly based on Flat π Conjugated Molecules (Grad. Sch. Sci., Hiroshima Univ.) ○HAINO, Takeharu (13:35~14:05)

Chair: IMAI, Yoshitane (14 : 05 ~ 14 : 35)

1S6-09 Special Program Lecture Photoexcited chirality revealed by CPL spectroscopy: Past, present, and perspective (Grad. Sch. Mat. Sci., NAIST) ○FUJIKI, Michiya (14:05~14:35)

Chair: ARAKI, Yasuyuki (14 : 35 ~ 14 : 55)

1S6-10 Special Program Lecture Principles and Applications of Circularly Polarized Luminescence Spectroscopy (JASCO Co.) ○KONDO, Yoshiro; WATANABE, Masayuki; NAGAMORI, Koushi (14:35~14:55)

Chair: YUASA, Junpei (14 : 55 ~ 15 : 20)

1S6-11 Special Program Lecture CPL spectroscopy of metal complexes -from single molecules to excimer- (Fac. Sci. and Technol., Seikei Univ.) ○TSUBOMURA, Taro (14:55~15:20)

Chair: HIROSE, Takashi (15 : 20 ~ 15 : 45)

1S6-12 Special Program Lecture Control of Circularly Polarized Luminescence in Chiral Molecular Assemblies (Grad. Sch. Mat. Sci., NAIST) ○NAKASHIMA, Takuya (15:20~15:45)

Chair: MORI, Tadashi (15 : 45 ~ 16 : 30)

1S6-13 Special Program Lecture Chiro morphology and chiroptical spectroscopy (RIST TUS) ○KURODA, Reiko (15:45~16:30)

CSJ Public Lecture

Saturday, March 18, PM

Chair: YAMAGUCHI, Junichiro (13 : 30 ~ 14 : 20)

3S6-01 CSJ Public Lecture Drug Discovery is still Difficult but Fun (PeptiDream Inc.) ○MASUYA, Keiichi (13:30~14:20)

Chair: NAKANISHI, Takashi (14 : 20 ~ 15 : 10)

3S6-02 CSJ Public Lecture Gaudi, Deep Sea, and Chemistry (JAMSTEC) ○DEGUCHI, Shigeru (14:20~15:10)

Chair: HIBARA, Akihide (15 : 10 ~ 16 : 00)

3S6-03 CSJ Public Lecture Evolution of Impossible Objects: Irrational World Generated by the Human Brains (MIMS) ○SUGIHARA, Kokichi (15:10~16:00)

(16 : 20 ~ 17 : 00)

3S6-04 CSJ Public Lecture rakugo (Rakugo Kyokai) ○SANYUTEI, Utamushi (16:20~17:00)

Special Lecture

Sunday, March 19, AM

Chair: SUZUKI, Koji (10 : 30 ~ 11 : 30)

4S6-01 Discovery and Development of Microbial Compounds and International Partnerships (The Kitasato Inst.) ○OMURA, Satoshi (10:30~11:30)

Chair: TAMAO, Kohei (11 : 45 ~ 12 : 45)

4S6-02 Discovery of the New Element, Nihonium - A Report from the Collaboration of Morita et al. at RIKEN - (RIKEN) HABA, Hiromitsu (11:45~12:45)

Frontier of Advanced Measurement and Analysis

Sunday, March 19, PM

(13 : 30 ~ 13 : 40)

4S6-03 Special Program Lecture Symposium on "The Latest Developments of The Advanced Measurement and Analysis - The Instrumentation for Supporting Scientific Research and The Construction of The Open Platform -" (Fac. Sci. Technol., TUS) ○NIHEI, Yoshimasa (13:30~13:40)

Chair: KURIHARA, Kazue (13 : 40 ~ 14 : 40)

4S6-04 Special Program Lecture Development of Next Generation Mass Spectrometry System (Shimadzu Corp.) ○TANAKA, Koichi (13:40~14:10)

4S6-05 Special Program Lecture Next Generation DNA Sequencer (Grad. Sch. Eng., Nagoya Univ.) ○BABA, Yoshinobu (14:10~14:40)

Chair: SHIMIZU, Ryuichi (14 : 40 ~ 15 : 10)

4S6-06 Special Program Lecture Development of Holography Electron Microscope with Atomic Resolution (Hitachi, Ltd. CER) ○SHINADA, Hiroyuki (14:40~15:10)

Chair: ISHIDA, Hideyuki (15 : 10 ~ 16 : 30)

4S6-07 Special Program Lecture Dielectric spectroscopy of single cells by dielectric spectro-cytometer (Sony Corp.) ○MORI, Shinji (15:10~15:30)

4S6-08 Special Program Lecture Development of Secondary Ion Mass Spectrometry with Gas Cluster Ion Beam (Grad. Sch. Eng., Kyoto Univ.) ○MATSUO, Jirou (15:30~15:50)

4S6-09 Special Program Lecture Initiative on Advanced Analytical Instrumentation Platform Plan (Fac. Sci. Tech., Keio Univ.) ○SUZUKI, Koji; OSHIMA, Masharu; ICHIMURA, Singo (15:50~16:30)

Room S7

Fourth Building Independence Wing
D101

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

Thursday, March 16, AM

(9 : 30 ~ 9 : 35)

1S7-01 Special Program Lecture Introduction (Bio. Syn. Chem. Lab., RIKEN) ○TANAKA, Katsunori (09:30~09:35)

Chair: IGAWA, Kazunobu (9 : 35 ~ 10 : 05)

1S7-02 Special Program Lecture Hyper-Active Catalysts for Fundamental Organic Chemical Processes (IMS, RIKEN) ○UOZUMI, Yasuhiro (09:35~10:05)

Chair: NAKAO, Yoshiaki (10 : 05 ~ 10 : 35)

1S7-03 Special Program Lecture Exploring New Transition Metal

Catalysis Utilizing Rationally Designed Multifunctional Ligands (Sch. Sci., Tokyo Tech.) ○TAKAYA, Jun (10:05~10:35)

Chair: HAMURA, Toshiyuki (10 : 35~10 : 50)

1S7-04 Special Program Lecture "Monodukuri" based on Novel Reactions (Fac. Sci., Kanagawa Univ.) ○TSUJI, Hayato (10:35~10:50)

Chair: YOKOSHIMA, Satoshi (11 : 00~11 : 30)

1S7-05 Special Program Lecture Total Synthesis of Natural Products Using Multi-component Reaction and Its Application to Medicinal Chemistry (Grad. Sch. Pharm., Hokkaido Univ.) ○ICHIKAWA, Satoshi (11:00~11:30)

Chair: HIRAI, Go (11 : 30~12 : 00)

1S7-06 Special Program Lecture Efficient synthesis of natural products based upon organocatalysis (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○NAGASAWA, Kazuo (11:30~12:00)

Chair: OISHI, Shinya (12 : 00~12 : 30)

1S7-07 Special Program Lecture Synthetic strategy of natural products that Nature chooses (Fac. Sci., Hokkaido Univ.) ○OIKAWA, Hideaki (12:00~12:30)

Hybrid Self-Assembly: Intersections between Bio- and Artificial Molecular Ordering

Thursday, March 16, PM

Chair: HIRAOKA, Shuichi (13 : 30~15 : 00)

1S7-08 Special Program Lecture Cyborg Supramolecules Synthesized via Dynamical Ordering (Grad. Sch. Sci., The Univ. of Tokyo; WPI-AIMR, Tohoku Univ.; ERATO, JST) ○SATO, Sota (13:30~14:00)

1S7-09 Special Program Lecture Penetration mechanism of Protein needle from Bacteriophage T4 (Sch. Life Sci. Tech., Tokyo Tech.) ○UENO, Takafumi (14:00~14:30)

1S7-10 Special Program Lecture Dynamical ordering nanostructures constructed from protein nanobuilding blocks (Fac. Textile Sci. Technol., Shinshu Univ.; CFMD, Shinshu Univ.) KIMURA, Naoya; KOBAYASHI, Naoya; ○ARAI, Ryoichi (14:30~15:00)

Chair: SATO, Sota (15 : 00~16 : 30)

1S7-11 Special Program Lecture Artificial DNA made of alkynyl C-nucleotides having applicable potential to DNA-related enzymes (Grad. Sch. Pharm. Sci., Univ. of Toyama) INOUYE, Masahiko; ○CHIBA, Junya (15:00~15:30)

1S7-12 Special Program Lecture Synthesis of artificial raft domains incorporating coordination polymers on lipid bilayers (Fac. Adv. Sci. Tech., Kumamoto Univ.) ○OHTANI, Ryo (15:30~16:00)

1S7-13 Special Program Lecture Dynamic Ordering of Ultra-thermostable Self-Assemblies (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○HIRAOKA, Shuichi (16:00~16:30)

New Materials Chemistry Explored by Mixed-Anion Compounds

Sunday, March 19, AM

(9 : 30 ~ 9 : 35)

4S7-01 Special Program Lecture Introduction (Sch. Sci., Tokyo Tech.) ○MAEDA, Kazuhiko (09:30~09:35)

Chair: MAEDA, Kazuhiko (9 : 35 ~ 10 : 25)

4S7-02 Special Program Lecture Perspectives of synthesis of mixed anion compounds (Grad. Sch. Eng., Kyoto Univ.) ○KAGEYAMA, Hiroshi (09:35~10:00)

4S7-03 Special Program Lecture Development of highly active photocatalysts based on anion/cation exchanged materials (Grad. Sch. Eng., The Univ. of Tokyo) ○DOMEN, Kazunari (10:00~10:25)

Chair: HAYASHI, Katsuro (10 : 25~11 : 15)

4S7-04 Special Program Lecture What are the attractive value-added inorganic materials and how to prepare? (MCRC) ○SETOYAMA, Tooru (10:25~10:50)

4S7-05 Special Program Lecture Development of new materials using multiple anions (EPRI, AIST) ○OGINO, Hiraku (10:50~11:15)

Chair: OGINO, Hiraku (11 : 15~12 : 05)

4S7-06 Special Program Lecture Hydride-ion conductors - New materials for new electrochemical devices (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KANNO, Ryoji; KOBAYASHI, Genki (11:15~11:40)

4S7-07 Special Program Lecture Identification Methodology of Hydride Ions in Oxides with Small Concentration (Grad. Sch. Eng., Kyushu Univ.) ○HAYASHI, Katsuro (11:40~12:05)

Frontier of Synergistic Phenomena in Supramolecular Chemistry

Sunday, March 19, PM

Chair: NABESHIMA, Tatsuya (13 : 30~14 : 45)

4S7-08 Special Program Lecture Opening Remarks - Synergistic Effect in Supramolecular Chemistry (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○NABESHIMA, Tatsuya (13:30~13:55)

4S7-09 Special Program Lecture Synergetic Effects in Self-Assembled Monolayer Formation at Liquid-Solid Interfaces (Grad. Sch. Eng. Sci., Osaka Univ.) ○TOBE, Yoshito (13:55~14:20)

4S7-10 Special Program Lecture Structure and function of self-sorting supramolecular fibers (Grad. Sch. Eng., Kyoto Univ.) ○HAMACHI, Itaru (14:20~14:45)

Chair: MAEDA, Hiromitsu (14 : 50~15 : 40)

4S7-11 Special Program Lecture Structures and Functions of Supramolecular Assemblies formed via Self-Organization (Grad. Sch. Sci., Hiroshima Univ.) ○HAINO, Takeharu (14:50~15:15)

4S7-12 Special Program Lecture Rational connection between macro and nano by interfacial synergy: How can we operate molecular machines by our hands? (MANA, NIMS) ○ARIGA, Katsuhiko (15:15~15:40)

Chair: HAINO, Takeharu (15 : 40~16 : 30)

4S7-13 Special Program Lecture Dimension-Controlled Assemblies of π -Electronic Ions (Coll. Life Sci., Ritsumeikan Univ.) ○MAEDA, Hiromitsu (15:40~16:05)

4S7-14 Special Program Lecture Construction of Supramolecular Materials Based on Regular Polygons Pillar[n]arenes (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○OGOSHI, Tomoki (16:05~16:30)

Room S8

Fourth Building Independence Wing
D205

Development of Extremely Difficult Transformations by Use of Precisely Designed Field

Sunday, March 19, AM

(9 : 30 ~ 9 : 40)

4S8-01 Special Program Lecture explanation of aim (Grad. Sch. Eng., The Univ. of Tokyo) ○NISHIBAYASHI, Yoshiaki (09:30~09:40)

Chair: NISHIBAYASHI, Yoshiaki (9 : 40 ~ 10 : 55)

4S8-02 Special Program Lecture Development of Molecular Catalysts Specific for Water Activation (LCCMS, IMS) ○MASAOKA, Shigeyuki (09:40~10:05)

4S8-03 Special Program Lecture Transformation of dinitrogen by titanium hydride complexes (RIKEN CSRS) ○SHIMA, Takanori (10:05~10:30)

4S8-04 Special Program Lecture Reductants for Hydrocarboxylation Reactions (Sch. Sci., Tokyo Tech.) ○IWASAWA, Nobuharu (10:30~10:55)

Chair: SATO, Naomasa (10 : 55~12 : 10)

4S8-05 Special Program Lecture Catalytic gaseous alkane conversion using a malfunction state of biocatalysts (Grad. Sch. Sci., Nagoya Univ.) ○OSAMI, Shoji (10:55~11:20)

4S8-06 Special Program Lecture Development of Difficult Dehydrogenation Reactions Catalyzed by Iridium Complexes Having a Functional Ligand (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○FUJITA, Ken-ichi (11:20~11:45)

4S8-07 Special Program Lecture A Strategy for Catalytic Asymmetric Synthesis of α -Hetero Carbonyl Compounds (WPI-ITbM, Nagoya Univ.) ○OOI, Takashi (11:45~12:10)

(12 : 10~12 : 20)

4S8-08 Special Program Lecture Closing Remarks (MCRC) ○SATO, Naomasa (12:10~12:20)

Room S9

Fourth Building Independence Wing
D312

Pursuing analytical methods to elucidate
biological phenomena

Thursday, March 16, AM

(9 : 30 ~ 9 : 35)

1S9-01 Special Program Lecture Introduction (MANA, NIMS)
○NAKANISHI, Jun (09:30~09:35)

Chair: SATO, Moritoshi (9 : 35 ~ 10 : 25)

1S9-02 Special Program Lecture Constructive study on collective
cell migration by using photoactivatable substrates (MANA, NIMS)
○NAKANISHI, Jun (09:35~10:00)

1S9-03 Special Program Lecture Microenvironmental conditions
created by microfluidic devices (Fac. of Sci., JWU) ○SATO, Kae (10:00
~10:25)

Chair: SATO, Kae (10 : 25 ~ 11 : 00)

1S9-04 Special Program Lecture Highly sensitive analysis of mem-
brane proteins by using biomembrane microsystems (Grad. Sch. Eng., The
Univ. of Tokyo) ○WATANABE, Rikiya (10:25~10:50)

1S9-05 Special Program Lecture Commercial tools using analytical
chemistry for biological research (Inst. Micro. Tech. Co., Ltd.) ○TAZAWA,
Hidekatsu (10:50~11:00)

Chair: NAKANISHI, Jun (11 : 10 ~ 11 : 50)

1S9-06 Special Program Lecture DNA aptamer that promote cell
adhesion selected using irresistible large-scale sequence analysis (Grad. Sch.
Arts and Sci., The Univ. of Tokyo) ○YOSHIMOTO, Keitaro (11:10~
11:35)

1S9-07 Special Program Lecture Optical control of biological activi-
ties (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○SATO, Moritoshi
(11:35~11:50)

Chair: YOSHIMOTO, Keitaro (12 : 00 ~ 12 : 25)

1S9-08 Special Program Lecture Rational design of fluorescent mo-
lecules targeting RNA for analytical applications (Sch. Sci., Tohoku Univ.)
○NISHIZAWA, Seiichi (12:00~12:25)

(12 : 25 ~ 12 : 30)

1S9-09 Special Program Lecture closing remarks (Grad. Sch. Arts
and Sci., The Univ. of Tokyo) ○YOSHIMOTO, Keitaro (12:25~12:30)

Recent Development of High-energy Chem-
istry in Liquid

Sunday, March 19, AM

(9 : 30 ~ 9 : 40)

4S9-01 Special Program Lecture Introduction (Grad. Sch. Sci.,
Osaka City Univ.) ○YATSUHASHI, Tomoyuki (09:30~09:40)

Chair: YATSUHASHI, Tomoyuki (9 : 40 ~ 10 : 05)

4S9-02 Special Program Lecture Photo-thermal conversion of mi-
croparticles dispersed in liquid (Grad. Sch. Sci., Eng., Ehime Univ.)
○ASAHI, Tsuyoshi (09:40~10:05)

Chair: WADA, Hiroyuki (10 : 05 ~ 11 : 30)

4S9-03 Special Program Lecture Recent progress on pulsed laser
melting in liquid (Grad. Sch. Eng., Hokkaido Univ.) ○KOSHIZAKI,
Naoto; ISHIKAWA, Yoshie; TSUJI, Takeshi; NAKAMURA, Takahiro
(10:05~10:30)

4S9-04 Special Program Lecture Fabrication of reduced metal nano-
particles by laser ablation in liquids (ILT) ○TANIGUCHI, Seiji; SAIKI,
Taku (10:30~10:55)

4S9-05 Special Program Lecture New phase formation of materials
by laser ablation in aqueous solution with visible light (Grad. Sch. Sys. Eng.,
Wakayama Univ.) ○AKIMOTO, Ikuko (11:05~11:30)

Chair: YATSUHASHI, Tomoyuki (11 : 30 ~ 12 : 20)

4S9-06 Special Program Lecture Synthesis of functional nanomateri-
als by femtosecond laser ablation in liquid (Grad. Sch. Eng., Kyoto Univ.)
○SHIMOTSUMA, Yasuhiko (11:30~11:55)

4S9-07 Special Program Lecture Synthesis and characterization of
heteroatom-doped carbon materials by solution plasma (Coll. Eng., Shiba-
ura Inst. of Tech.) ○ISHIZAKI, Takahiro; WADA, Yuta; LEE, Hoonseung; LI,
Oi Lun (11:55~12:20)

(12 : 20 ~ 12 : 30)

4S9-08 Special Program Lecture closing remarks (Sch. Mater. &
Chem. Tech., Tokyo Tech.) ○WADA, Hiroyuki (12:20~12:30)

Room SA

Sixth Building 613

CSJ Award Presentation

Thursday, March 16, AM

Chair: HARA, Michikazu (11 : 00 ~ 12 : 00)

1SA-01# CSJ Award Presentation Creation of Organic Inorganic Hy-
brid Perovskite Solar Cell and Its High Efficiency Development (Grad. Sch.
Eng., Toin Univ. of Yokohama) ○MIYASAKA, Tsutomu (11:00~12:00)

Thursday, March 16, PM

Chair: YAMANOUCI, Kaoru (13 : 00 ~ 14 : 00)

1SA-02# CSJ Award Presentation Creation of Novel Molecular Spec-
troscopy in Electronic Vibrational Transition-Basic Studies, Development of
Instruments, and Application to Chemistry (Sch. Sci. Tech., Kwansei Gakuin
Univ.) ○OZAKI, Yukihiro (13:00~14:00)

Chair: TOBE, Yoshito (14 : 30 ~ 15 : 30)

1SA-03 CSJ Award Presentation Development and Progress of Inter-
disciplinary Chemistry Based on Integration of Liquid Crystals and Conjugated
Polymers (Grad. Sch. Eng., Kyoto Univ.) ○AKAGI, Kazuo (14:30~
15:30)

Chair: YAMAMOTO, Yohsuke (16 : 00 ~ 17 : 00)

1SA-04# CSJ Award Presentation Development of a New Methodol-
ogy for Bond Activation and its Application to New Catalytic Reactions
(Grad. Sch. Eng., Osaka Univ.) ○CHATANI, Naoto (16:00~17:00)

Saturday, March 18, AM

Chair: YASHIMA, Eiji (11 : 00 ~ 12 : 00)

3SA-01# CSJ Award Presentation Development of Dynamic Molecu-
lar and Macromolecular Systems based on Interlocked Structures (Sch.
Mater. & Chem. Tech., Tokyo Tech.) ○TAKATA, Toshikazu (11:00~
12:00)

Room SB

Sixth Building 623

CSJ Award Presentation

Friday, March 17, AM

Chair: NISHIZAWA, Seiichi (11 : 00 ~ 12 : 00)

2SB-01# CSJ Award Presentation Construction, Fusion, and Func-
tionalization of Liquid Crystals and Supramolecular Assemblies (Grad. Sch.
Eng., The Univ. of Tokyo) ○KATO, Takashi (11:00~12:00)

Special Lecture

Friday, March 17, PM

Chair: USUKI, Toyonobu (13 : 00 ~ 13 : 50)

2SB-02# Special Lecture From Sugars to Carbocyclic SGLT2 Inhibitors
(CUHK) ○Tony K. M. Shing (13:00~13:50)

Chair: ISHIHARA, Kazuaki (14 : 00 ~ 14 : 50)

2SB-03# Special Lecture The Impact of Achiral Templates on Enantio-
selective Transformations (NDSU) ○SIBI, Mukund P. (14:00~14:50)

Room D1
Fourth Building Independence Wing
DB201

Functional materials for creating new industries

Thursday, March 16, AM

Cellulose Nanofiber 2017

(9 : 30 ~ 9 : 40)

1D1-04 Introduction (ISIR, Osaka Univ.) ○NOGI, Masaya (09:30~09:40)

Chair: ERIYAMA, Yuichi (9 : 40 ~ 11 : 30)

1D1-05 ATP Special Invited Lecture The significance of the chemical modification for cellulose nanofiber production: Discovery of TEMPO-oxidation method, and subsequent developments (Grad. Sch. Agricultural and Life Sci., The Univ. of Tokyo) ○SAITO, Tsuguyuki (09:40~10:20)

1D1-09 ATP Special Invited Lecture Functional Materials Based on Characteristic Structure of Nanocellulose (Grad. Sch. Eng., Osaka Univ.) ○UYAMA, Hiroshi (10:20~11:00)

1D1-13 ATP Invited Lecture Development of Cellulose Nanofibers Prepared by Phosphate Esterification (Oji Holdings Co.) ○OZAKI, Takuri (11:00~11:30)

Thursday, March 16, PM

Chair: IMAIZUMI, Mitsuhiro (12 : 30 ~ 15 : 10)

1D1-22 ATP Special Invited Lecture CNF applications in printed electronics (ISIR, Osaka Univ.) ○NOGI, Masaya (12:30~13:10)

1D1-26 ATP Special Invited Lecture Nonvolatile Resistive Memory using Cellulose Nanofiber Films (IMCE, Kyushu Univ.) ○NAGASHIMA, Kazuki; KOGA, Hirotsugu; CELANO, Umberto; NOGI, Masaya; KITAOKA, Takuya; YANAGIDA, Takeshi (13:10~13:50)

1D1-30 ATP Special Invited Lecture Chitin nanofiber for human health care (Grad. Sch. Eng., Tottori Univ.) ○IFUKU, Shinsuke (13:50~14:30)

1D1-34 ATP Special Invited Lecture Application to food of the bamboo cellulose nanofiber produced by enzyme processing with mechanical processing (FFPRI) ○HAYASHI, Noriko; SHIMKAWA, Tomoko; IKEDA, Tsutomu; OGAWA, Mutsumi; TAKAO, Tetsuya; NAKAYAMA, Eiko; KURIHARA, Masakazu; UZUHASHI, Yuji; MAGARA, Kengo (14:30~15:10)

Chair: WATANABE, Eiji (15 : 20 ~ 16 : 30)

1D1-39 ATP Invited Lecture The development of cellulose nanofiber for functional additives (Nippon Paper Industries Co., Ltd.) ○KAWASAKI, Masayuki (15:20~15:50)

1D1-42 ATP Special Invited Lecture Life science-oriented material functionalization of nano-cellulose and nano-chitin via multi-composing and process development (Fac. Applied Bio. Sci., Gifu Univ.) ○TERAMOTO, Yoshikuni (15:50~16:30)

Chemistry for Energy Innovation

Friday, March 17, AM

Advanced Technologies of Solar Energy Conversion for Practical Applications

(9 : 20 ~ 9 : 30)

2D1-03 Introduction (Grad. Sch. Eng., Toin Univ. of Yokohama) ○MIYASAKA, Tsutomu; SAYAMA, Kazuhiro (09:20~09:30)

Chair: MIYASAKA, Tsutomu (9 : 30 ~ 10 : 40)

2D1-04 ATP Invited Lecture Elucidation of the Mechanism of Perovskite Layer Formation in the Solution Process Using A Nobel Precursor Materials (ICR, Kyoto Univ.) ○WAKAMIYA, Atsushi (09:30~10:00)

2D1-07 ATP Special Invited Lecture Basic Chemistry of Lead Perovskite Solar Cells (Org. Int. Res. Pro., The Univ. of Tokyo) ○NAKAMURA, Eiichi (10:00~10:40)

Chair: SAYAMA, Kazuhiro (10 : 40 ~ 12 : 00)

2D1-11 ATP Special Invited Lecture Artificial Photosynthesis: Solar fuel generation from CO₂ and H₂O (Toyota Central R&D Labs., Inc.) ○MORIKAWA, Takeshi (10:40~11:20)

2D1-15 ATP Special Invited Lecture Economics of Hydrogen Production from Renewable Energy (IEEJ) ○SHIBATA, Yoshiaki (11:20~12:00)

Friday, March 17, PM

(13 : 30 ~ 14 : 20)

2D1-28 ATP Keynote Lecture How to apply solar hydrogen in order to realize a sustainability and an economic feasibility together? (Mitsubishi Chemical Corp.) ○SETOYAMA, Tooru (13:30~14:20)

Chair: IKEDA, Shigeru (14 : 20 ~ 15 : 30)

2D1-33 ATP Invited Lecture Solar water splitting and CO₂ reduction using visible-light-responsive photocatalysts and photoelectrodes (Fac. Sci., TUS) ○IWASE, Akihiko; KUDO, Akihiko (14:20~14:50)

2D1-36 ATP Invited Lecture Anodes for water oxidation toward artificial photosynthesis (Grad. Sch. Sci. and Technol., Niigata Univ.) ○YAGI, Masayuki (14:50~15:30)

Chair: YAGI, Masayuki (15 : 30 ~ 16 : 40)

2D1-40 ATP Special Invited Lecture Photoreduction and fuelization of carbon dioxide -Fuel production and fine chemical synthesis- (OCARINA) ○AMAO, Yutaka (15:30~16:10)

2D1-44 ATP Invited Lecture Solar hydrogen production via water splitting using particulate photocatalyst sheets (Grad. Sch. Eng., The Univ. of Tokyo) ○HISATOMI, Takashi; DOMEN, Kazunari (16:10~16:40)

Saturday, March 18, AM

Chair: ABE, Ryu (9 : 30 ~ 10 : 50)

3D1-04 ATP Special Invited Lecture Production of H₂ and valuable chemicals over artificial photosynthesis (RCPV, AIST) ○SAYAMA, Kazuhiro (09:30~10:10)

3D1-08 ATP Special Invited Lecture Physical approach toward high-efficiency photocatalysts for solar water splitting (Grad. Sch. Eng., The Univ. of Tokyo) ○SUGIYAMA, Masakazu (10:10~10:50)

Chair: MATSUO, Yutaka (10 : 50 ~ 12 : 00)

3D1-12 ATP Special Invited Lecture Future Prospects of Organometal Halide Perovskite Solar Cells (RCAST, The Univ. of Tokyo) ○SEGAWA, Hiroshi (10:50~11:30)

3D1-16 ATP Invited Lecture Development and Stability Testing of Organic Photovoltaics (CEREBA) ○YAMANARI, Toshihiro (11:30~12:00)

Saturday, March 18, PM

Chair: SEGAWA, Hiroshi (13 : 30 ~ 14 : 20)

3D1-28 ATP Keynote Lecture Interfacial organization of perovskite solar cells and its role for durability improvement (Grad. Sch. Eng., Toin Univ. of Yokohama) ○MIYASAKA, Tsutomu (13:30~14:20)

Chair: SUNADA, Yusuke (14 : 20 ~ 15 : 20)

3D1-33 ATP Invited Lecture Charge Separation Interface Engineering of Colloidal Quantum Dot-based Solar Cells and Approaches to Improving the Energy Conversion Efficiency (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○SHEN, Qing; TOYODA, Taro (14:20~14:50)

3D1-36# ATP Invited Lecture Application of Transparent Carbon Nanotubes Electrodes in Organic and Perovskite Solar Cells (Grad. Sch. Eng., The Univ. of Tokyo) ○JEON, Il; KAUPPINEN, Esko; MARUYAMA, Shigeo; MATSUO, Yutaka (14:50~15:20)

Chair: TSUJI, Ryotaro (15 : 30 ~ 16 : 40)

3D1-40 ATP Invited Lecture Development of practical synthetic method for OPV materials (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○KUWABARA, Junpei (15:30~16:00)

3D1-43 ATP Special Invited Lecture High Performance Perovskite Solar Cells (GREEN, NIMS) ○HAN, Liyuan (16:00~16:40)

Room D2
Fourth Building Independence Wing
DB202

Innovative Technologies to Support the Future of health care

Thursday, March 16, AM

Biomaterials Bringing about Medical Innovation

(9 : 50 ~ 10 : 00)

1D2-06 Introduction (IMCE, Kyushu Univ.) ○TANAKA, Masaru (09:50~10:00)

Chair: NAOYUKI, Nishikawa (10:00~11:10)

- 1D2-07 ATP Special Invited Lecture** Emergent Bioiontronics (IPS, Waseda Univ.) ○MIYAKE, Takeo (10:00~10:40)
1D2-11 ATP Invited Lecture Sensing fabric "hitoc" for wearable ECG and vital data analysis in the age of big data (NTT BRL) ○TSUKADA, Shingo (10:40~11:10)

Chair: MASARU, Tanaka (11:10~12:00)

- 1D2-14 ATP Keynote Lecture** Stretchable electronics for health-monitoring and biomedical applications (Grad. Sch. Eng., The Univ. of Tokyo) ○SOMEYA, Takao (11:10~12:00)

Thursday, March 16, PM

Chair: KEIGO, Aoi (13:00~14:10)

- 1D2-25 ATP Special Invited Lecture** Ideal membrane material for the future dialysis therapy (Seieikai Yabuki Hospital) ○IKUTO, Masakane (13:00~13:40)
1D2-29 ATP Invited Lecture Novel non-biological hemostatic surgical sealant (Sanyo Chemical Industries, Ltd.) ○HIROAKI, Maeda (13:40~14:10)

Chair: MASARU, Tanaka (14:20~15:10)

- 1D2-33 ATP Keynote Lecture** Cell-recognizable Biomaterials for Medical Innovation-Design and Development in Regenerative Medicine and DDS-(FAIS) ○TOSHIHIRO, Akaike (14:20~15:10)

Chair: ONISHI, Tomoyuki (15:10~16:30)

- 1D2-38 ATP Special Invited Lecture** Development of Cell Culture Surface fabricated by Printing Technology and its Application in Regenerative Medicine (DNP) ○KOMOTO, Yoko; TSUCHIYA, Katsunori (15:10~15:50)
1D2-42 ATP Special Invited Lecture Development of human iPSC cell bulk culture platform for use in regenerative medicine (ASAHI GLASS CO., LTD.) ○KUMAGAI, Hiromichi (15:50~16:30)

Functional materials for creating new industries

Friday, March 17, AM

Toward the Realization of Material Systems Contributing to IoT and AI-supported Society

(10:00~10:10)

- 2D2-07** Introduction (ISIR, Osaka Univ.) ○SEKITANI, Tsuyoshi (10:00~10:10)

Chair: SEKITANI, Tsuyoshi (10:10~12:20)

- 2D2-08 ATP Special Invited Lecture** Semiconductor-based biosensor for clinical diagnosis (Grad. Sch. Eng., The Univ. of Tokyo) ○SAKATA, Toshiya (10:10~10:50)
2D2-12 ATP Special Invited Lecture Development of super multi-bit recording material with the aim of 10 TB optical disc in IoT society (Daikin Industries, Ltd.) KAMATA, Kenji; ○SATO, Kazuyuki; TANAKA, Yoshito (10:50~11:30)
2D2-16 ATP Keynote Lecture OLEDs: from Materials to Devices (Grad. Sch. Sci., Eng., Yamagata Univ.) ○KIDO, Junji (11:30~12:20)

Friday, March 17, PM

Chair: NAKAJIMA, Atsushi (13:30~16:00)

- 2D2-28 ATP Keynote Lecture** Innovation of next generation chemical materials for IoT. (CEREBEA) ○KIMURA, Masafumi (13:30~14:20)
2D2-33 ATP Special Invited Lecture Multimodal bio-image sensor as an interface between living body and machine. (Dept. Electrical and Electronic Info. Eng., TUT) ○SAWADA, Kazuaki (14:20~15:00)
2D2-37 ATP Special Invited Lecture Material Technology and Possibility of Polymer Actuators for Internet of Things (IoT) Society (IFMRI, AIST) ○SUGINO, Takushi; ASAKA, Kinji (15:00~15:40)
2D2-41 ATP Incubation Time (15:40~16:00)

Chair: IINO, Hiroaki (16:00~17:20)

- 2D2-43 ATP Special Invited Lecture** Development of rapid nucleic acid testing system oriented to telemedicine for Infection diseases (BRI, AIST) ○NAGAI, Hidenori (16:00~16:40)
2D2-47 ATP Special Invited Lecture IoT technologies and materials for health-care of civil infrastructure (ISIR, Osaka Univ.) ○SEKITANI, Tsuyoshi (16:40~17:20)

Chemistry for Energy Innovation

Saturday, March 18, AM

Innovative Chemical Process and Technology toward the Energy-saving Society

(9:30~9:40)

- 3D2-04** Opening Address (IRC3, AIST) ○SATO, Kazuhiko (09:30~09:40)

Chair: FUKAYA, Norihisa (9:40~10:30)

- 3D2-05 ATP Keynote Lecture** Synthesis of Fine Chemicals by Flow Methods (Grad. Sch. Sci., The Univ. of Tokyo) ○KOBAYASHI, Shu (09:40~10:30)

Chair: SEKO, Shinzo (10:30~12:00)

- 3D2-10 ATP Special Invited Lecture** Concept of Smart Industrial Complex with Application of CoProduction Pinch Integrated Analysis (Simulation Technologie, Inc.) ○TATSUMI, Hiroyuki (10:30~11:10)
3D2-14 ATP Incubation Time (11:10~11:20)
3D2-15 ATP Special Invited Lecture Plausible process innovation with membrane separation technologies (Sch. Advanced Sci. Eng., Waseda Univ.) ○MATSUKATA, Masahiko (11:20~12:00)

Saturday, March 18, PM

Chair: NAKAMURA, Kazuaki (13:00~14:20)

- 3D2-25 ATP Special Invited Lecture** Continuous flow manufacturing can change the tomorrow. (Takasago International Co.) ○SAITO, Takao (13:00~13:40)
3D2-29 ATP Special Invited Lecture Fine bubble organic synthesis: From batch to flow (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○MASE, Nobuyuki (13:40~14:20)

Chair: HARA, Kenji (14:20~15:00)

- 3D2-33 ATP Invited Lecture** Basis of supercritical fluid chromatography and future prospect (JASCO Co.) ○HORIKAWA, Yoshiteru (14:20~14:50)
3D2-36 ATP Incubation Time (14:50~15:00)

Chair: TSUCHIBUCHI, Tsuyoshi (15:00~16:10)

- 3D2-37 ATP Special Invited Lecture** Introduction of GC detector which employs dielectric barrier discharge plasma for ionizing compounds (Shimadzu Corp.) ○HIRAOKA, Takaaki (15:00~15:30)
3D2-40 ATP Invited Lecture LabDroid: all purpose humanoid robot for life science (Molprof, AIST) ○NATSUME, Tohru (15:30~16:10)

Chair: TAKAYA, Hikaru (16:10~17:00)

- 3D2-44 ATP Keynote Lecture** History and Recent Advances of Chiral Chromatography (Nagoya Univ.) ○OKAMOTO, Yoshio (16:10~17:00)

(17:00~17:10)

- 3D2-49** Closing Address (IRC3, AIST) ○SATO, Kazuhiko (17:00~17:10)

Room D5

Fourth Building Independence Wing
D205

Functional materials for creating new industries

Thursday, March 16, AM

Research Frontiers in Innovative Membrane Engineering

(9:30~9:40)

- 1D5-04** Introduction (Grad. Sch. Eng., Kobe Univ.) ○MATSUYAMA, Hideto (09:30~09:40)

Chair: MATSUYAMA, Hideto (9:40~11:50)

- 1D5-05 ATP Keynote Lecture** Systematic material design for functionalized membranes ~from energy to water applications~ (IIR, Tokyo Tech.; CREST, JST; KAST) ○YAMAGUCHI, Takeo (09:40~10:30)
1D5-10 ATP Special Invited Lecture Power generation systems from salinity gradient using separation membranes (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○HIGA, Mitsuru (10:30~11:10)
1D5-14 ATP Special Invited Lecture Design of Novel Responsive Membrane Materials for Innovative Membrane Engineering (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○MIYATA, Takashi (11:10~11:50)

(16 : 30~17 : 30)

2D5-46 Panel Discussion Biomimetics towards Innovative Manufacturing (Sch. Sci. Eng., CIST; SPSJ; Hitachi, Ltd.; R&D Center for Marine Biosciences, JAMSTEC; MRI) (16:30~17:30)

Innovative Technologies to Support the Future of health care

Saturday, March 18, PM

Innovating Sensing Technology for the Future of Healthcare

(13 : 00~13 : 10)

3D5-25 Overview of this session from organizers (Grad. Sch. Sci., The Univ. of Tokyo) ○OZAWA, Takeaki (13:00~13:10)

Chair: OZAWA, Takeaki (13 : 10~15 : 20)

3D5-26 ATP Special Invited Lecture Healthcare supported by odor sensors: Development of high-sensitive odor sensors based on olfactory receptor proteins of insects (RCAST, The Univ. of Tokyo) ○KANZAKI, Ryohei (13:10~13:50)

3D5-30 ATP Special Invited Lecture Cavity Biosensors and Volatile Biomarker Imaging System (Sniff-cam) for Preemptive Medicine (IBB, Tokyo Med. and Dental Univ.) ○MITSUBAYASHI, Kohji (13:50~14:30)

3D5-34 ATP Special Invited Lecture Potentiality for advanced healthcare by wearable EEG (CINN, NICT) ○NARUSE, Yasushi (14:30~15:10)

3D5-38 ATP Incubation Time (15:10~15:20)

Chair: SAKURAI, Kaori (15 : 20~17 : 20)

3D5-39 ATP Special Invited Lecture Palm-sized immunosensor using surface acoustic wave device (Biosensor Project, JRC) ○YATSUDA, Hiromi; KOGAI, Takashi; YOSHIMURA, Naoyuki; KANO, Koji; GOTO, Mikihiro (15:20~16:00)

3D5-43 ATP Special Invited Lecture Biological tissue analysis by Raman spectroscopy and its application (HORIBA, Ltd.) ○OTA, Chikashi (16:00~16:40)

3D5-47 ATP Special Invited Lecture Imaging mass spectrometry enables the novel strategy of product development for health care. (Fac. Med., Hamamatsu Univ. Sch. Med.) ○SETOU, Mitsutoshi (16:40~17:20)

Room E9

Fourth Building Independence Wing
D311

Chemistry for Energy Innovation

Thursday, March 16, AM

Latest Trend of Next Generation Rechargeable Battery

(10 : 30~10 : 40)

1E9-10 Opening Remarks (Grad. Fac. Eng., Yokohama Natl. Univ.) ○DOKKO, Kaoru (10:30~10:40)

Chair: ABE, Ryu (10 : 40~12 : 00)

1E9-11 ATP Special Invited Lecture Simple and fast fabrication of carbon nanotube-base self-supporting electrodes for innovative next generation rechargeable batteries (Sch. Advanced Sci. Eng., Waseda Univ.; RISE, Waseda Univ.) ○NODA, Suguru (10:40~11:20)

1E9-15 ATP Special Invited Lecture High-Capacity Positive Electrode Materials for Advanced Lithium/Sodium Batteries (Sch. Eng., Tokyo Denki Univ.) ○YABUUCHI, Naoaki (11:20~12:00)

Thursday, March 16, PM

Chair: DOKKO, Kaoru (13 : 30~14 : 20)

1E9-28 ATP Keynote Lecture Battery technology for green energy society (Urban Environmental Sci., TMU) ○KANAMURA, Kiyoshi (13:30~14:20)

Chair: KUBOKI, Takashi (14 : 20~15 : 20)

1E9-33 ATP Invited Lecture Hydrate-melt electrolytes for 3 V-class aqueous batteries (Grad. Sch. Eng., The Univ. of Tokyo) ○YAMADA, Yuki; YAMADA, Atsuo (14:20~14:50)

1E9-36 ATP Invited Lecture Development of LGPS-type solid state electrolytes for all solid-state batteries (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HIRAYAMA, Masaaki; SUZUKI, Kota; KANNO, Ryoji (14:50~15:20)

Thursday, March 16, PM

Chair: YOSHIOKA, Tomohisa (12 : 50~15 : 10)

1D5-24 ATP Keynote Lecture Ceramic membranes for high-performance separation: design of nano/subnanopores, and evaluation and applications (Grad. Sch. Eng., Hiroshima Univ.) ○TSURU, Toshinori (12:50~13:40)

1D5-29 ATP Special Invited Lecture Design principles and separation performance of zeolite separation membrane (Sch. Advanced Sci. Eng., Waseda Univ.) ○MATSUKATA, Masahiko (13:40~14:20)

1D5-33 ATP Special Invited Lecture Development of practical carbon membranes for gas separations as an energy reduction technology (RCPT, AIST) ○YOSHIMUNE, Miki (14:20~15:00)

1D5-37 ATP Incubation Time (15:00~15:10)

Chair: NAKAGAWA, Keizo (15 : 10~16 : 10)

1D5-38 ATP Invited Lecture Ceramic membrane research in the environmental field of NGK Spark Plug (NGK SPARK PLUG CO., LTD.) ○ITOU, Masaya (15:10~15:40)

1D5-41 ATP Invited Lecture Surface Treatment Technology for Reverse Osmosis Membrane (Kurita Water Industries Ltd.) ○KAWAKATSU, Takahiro (15:40~16:10)

Chair: SHINTANI, Takuji (16 : 10~17 : 10)

1D5-44 ATP Invited Lecture Membrane Filtration and Development of Microza (Asahi Kasei Corp.) ○FUJIMURA, Hirokazu (16:10~16:40)

1D5-47 ATP Invited Lecture Advanced Technologies for Reverse Osmosis Membrane (Toray Industries, Inc.) ○KIMURA, Masahiro; OGAWA, Takafumi (16:40~17:10)

(17 : 10~17 : 20)

1D5-50 Closing remark (Grad. Sch. Eng., Kobe Univ.) ○MATSUYAMA, Hideto (17:10~17:20)

Friday, March 17, AM

Biomimetics towards Innovative Manufacturing

(9 : 00~9 : 10)

2D5-01 Biomimetics towards Innovative Manufacturing (Sch. Sci. Eng., CIST) ○SHIMOMURA, Masatsugu (09:00~09:10)

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

2D5-02 ATP Invited Lecture Robustness of the Functionality in Chemical Sensing of Insect. (Grad. Sch. Sci., Kobe Univ.) ○MAMIKO, Ozaki (09:10~09:40)

2D5-05 ATP Invited Lecture Irregularity-robust multifunctional nanopile structure of insects (Fac. Sci. Technol., TUS) ○SHINYA, Yoshioka (09:40~10:10)

2D5-08 ATP Invited Lecture We highlight the art of the state of the unsteady aerodynamics, free-flight dynamics, flight stability and control in insect flights, in terms of robustness and biomimetic MAV design. (Grad. Sch. Eng., Chiba Univ.) ○RYU, Hiroshi (10:10~10:40)

Chair: DEGUCHI, Shigeru (10 : 50~11 : 50)

2D5-12 ATP Invited Lecture Database Building for Biomimetics (NMNS) ○SHUHEI, Nomura (10:50~11:20)

2D5-15 ATP Invited Lecture BioTRIZ connect with life style (Fac. Eng., Niigata Univ.) ○YAMAUCHI, Takeshi; KOBAYASHI, Hidetoshi; KOBAYASHI, Toru (11:20~11:50)

Friday, March 17, PM

Chair: MIYAUCHI, Akihiro (12 : 50~14 : 40)

2D5-24 ATP Keynote Lecture Future materials manufacturing and biomimetics (MRI) ○SHINICHI, Kamei (12:50~13:40)

2D5-29 ATP Invited Lecture Development of the structural color sheet (Toppan Technical Research Institute) ○KAWASHITA, Masashi (13:40~14:10)

2D5-32 ATP Invited Lecture Improvement of appearance of concrete surface using biomimetics technology (Inst. Tech., Shimizu Co.) ○TSUJINO, Masato (14:10~14:40)

Chair: MASAO, Hirasaka (14 : 50~16 : 20)

2D5-36 ATP Invited Lecture The biomimetics for Japanese companies (Mizuho Info. Res. Inst., Inc.) ○TAKIMI, Tomohisa (14:50~15:20)

2D5-39 ATP Invited Lecture Trend of International Standardization of Biomimetics (Zeon Co.) ○MASAHUMI, Ata (15:20~15:50)

2D5-42 ATP Invited Lecture World Trends in Biomimetics : around French Activities. (Grad. Sch. Eng., Osaka Univ.) ○AKIRA, Saito (15:50~16:20)

Chair: KOUMURA, Nagatoshi (15 : 30~16 : 40)

1E9-40 ATP Special Invited Lecture Computer-aided mechanism understanding and material design for next-generation batteries (GREEN, NIMS) ○TATEYAMA, Yoshitaka (15:30~16:10)

1E9-44 ATP Invited Lecture Development of High Energy Density Rechargeable Battery using operando Analysis (Coll. Life Sci., Ritsumeikan Univ.) ○ORIKASA, Yuki (16:10~16:40)

Chair: DOKKO, Kaoru (16 : 40~17 : 10)

1E9-47 ATP Invited Lecture Rechargeable Zinc-Air Batteries (Grad. Sch. Eng., Kyoto Univ.) ○MIYAZAKI, Kohei (16:40~17:10)

(17 : 10~17 : 20)

1E9-50 Closing Remarks (Grad. Fac. Eng., Yokohama Natl. Univ.) ○DOKKO, Kaoru (17:10~17:20)

Friday, March 17, AM

New Energy Society Created by Hydrogen Technology

(10 : 00~10 : 10)

2E9-07 New energy society through the advanced hydrogen technologies (Tokyo Tech.) ○AIKA, Kenichi (10:00~10:10)

Chair: AIKA, Kenichi (10 : 10~11 : 50)

2E9-08 ATP Keynote Lecture Hydrogen in "energy mix" (Grad. Sch. Innovation Studies, TUS) ○KIKKAWA, Takeo (10:10~11:00)

2E9-13 ATP Special Invited Lecture Hydrogen Production Programs in the World (Technova Inc.) ○MARUTA, Akiteru (11:00~11:40)

2E9-17 ATP Incubation Time (11:40~11:50)

Friday, March 17, PM

Chair: MARUTA, Akiteru (13 : 00~14 : 20)

2E9-25 ATP Special Invited Lecture Tomakamai CCS Demonstration Project and the global status of CCS (Japan CCS Co., Ltd.) ○TANAKA, Yutaka (13:00~13:40)

2E9-29 ATP Invited Lecture Hydrogen Generation Technology by Water Electrolysis (Hitachi Zosen Co.) ○OSHIRO, Hitoshi (13:40~14:10)

2E9-32 ATP Incubation Time (14:10~14:20)

Chair: AKAMATSU, Fumiteru (14 : 20~15 : 30)

2E9-33 ATP Invited Lecture Large scale hydrogen transportation using liquid hydrogen (Kawasaki Heavy Industries, Ltd.) ○KAMIYA, Shoji (14:20~14:50)

2E9-36 ATP Invited Lecture Hydrogen Storage and Transportation technology for Large-Scale - SPERA Hydrogen System and its prospects for the Future - (Chiyoda Co.) ○OKADA, Tomomi (14:50~15:20)

2E9-39 ATP Incubation Time (15:20~15:30)

Chair: OKADA, Tomomi (15 : 30~17 : 20)

2E9-40 ATP Special Invited Lecture Direct combustion use of ammonia as a hydrogen carrier -Application to industrial furnaces - (tentative) (Grad. Sch. Eng., Osaka Univ.) ○AKAMATSU, Fumiteru (15:30~16:10)

2E9-44 ATP Special Invited Lecture Development of proton conducting solid electrolyte fuel cell and application to electrosynthesis (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○OTOMO, Junichiro (16:10~16:50)

2E9-48 ATP Invited Lecture Social Implementation of the Fuel Cell Electric Vehicle and its Ecosystem (Nissan Motor Co., Ltd.) ○HASEGAWA, Takuya (16:50~17:20)

(17 : 20~17 : 25)

2E9-51 Closing remarks (Tokyo Tech.) ○AIKA, Kenichi (17:20~17:25)

Innovative Technologies to Support the Future of health care

Saturday, March 18, PM

Japan-origin Bio-ventures; Paving the Way for the Future of Healthcare

(13 : 00~13 : 10)

3E9-25 A presentation for the aims of this session by an organizer (Grad. Sch. Sci., The Univ. of Tokyo) ○SUGA, Hiroaki (13:00~13:10)

Chair: OHNO, Osamu (13 : 10~15 : 10)

3E9-26 ATP Keynote Lecture Cutting-edge technology for medicine and healthcare business: Cell-specific liquid biopsy (CREST, AMED) ○TAKIKAWA, Osamu (13:10~14:00)

3E9-31 ATP Invited Lecture Development and Application of Recombinant Peptide Scaffold for Regenerative Medicine (FUJIFILM Corp.)

○YOSHIOKA, Yasuhiro (14:00~14:30)

3E9-34 ATP Incubation Time (14:30~14:40)

3E9-35 ATP Invited Lecture Future of nanomedicine (NanoCarrier Co., Ltd.) ○NAKATOMI, Ichiro (14:40~15:10)

Chair: DEKISHIMA, Yasumasa (15 : 10~17 : 00)

3E9-38 ATP Invited Lecture TagCyx's drug discovery using genetic alphabet platform (TAGCYX Biotechnologies) ○HARADA, Yoko (15:10~15:40)

3E9-41 ATP Incubation Time (15:40~15:50)

3E9-42 ATP Invited Lecture The Cutting Edge of Dendritic Cell Cancer Vaccine Therapy for Cancer (Terra Firma Inc.) ○MIYAZAWA, Junichi (15:50~16:20)

3E9-45 ATP Invited Lecture Startup Venture capital challenges to break new ground (Beyond Next Ventures) ○ITO, Tsuyoshi (16:20~16:50)

3E9-48 ATP Incubation Time (16:50~17:00)

Room P

Hiyoshi Commemorative Hall

Thursday, March 16, PM

(15 : 00~16 : 30)

Energy

1PC-001 High-Performance Rechargeable Batteries Using Air-Stable Organic Neutral Radicals as Cathode Active Materials (Fac. Eng., Aichi Inst. of Tech.) ○MURATA, Tsuyoshi; NISHIYAMA, Junya; KEISHIMA, Miwa; FUJISAKI, Megumi; TSUJI, Ryotaro; MORITA, Yasushi

1PC-002[#] Development of Organic and Inorganic Hybrid Thermoelectric Materials by Palladium Nanoparticles Supported Carbon Nanotubes (Grad. Sch. Eng. Sci., Tokyo Univ. of Sci., Yamaguchi) ○OSHIMA, Keisuke; MATSUMURA, Takuya; INOUE, Junta; SHIRAIISHI, Yukihide; TOSHIMA, Naoki

1PC-003 Electroreduction of carbon dioxide to formic acid (RIEF, AIST) ○KANEGA, Ryoichi; ONISHI, Naoya; MURATA, Kazuhisa; HIMEDA, Yuichiro

1PC-004[#] Highly porous nitrogen-doped carbon nanospheres-supported Pt with high oxygen reduction activity for metal-air batteries and fuel cells (Adv. Mater. Dev. Sec., Tokyo Metropolitan Ind. Tech. Res. Inst.) ○TACHIBANA, Naoki; IKEDA, Saori; YUKAWA, Yasuyuki; SOMEKAWA, Shoichi; KAWAGUCHI, Masahiro

1PC-005[#] Synthesis and electrochemical properties of all graphene oxide electrochemical devices (Fac. Adv. Sci. Tech., Kumamoto Univ.) ○OGATA, Chikako; KUROGI, Ruriko; HATAKEYAMA, Kazuto; KOINUMA, Michio; MATSUMOTO, Yasumichi

1PC-006[#] Mechanistic Analysis of Electrochemical Water Oxidation by Monodisperse 10-nm-Sized Mn Oxide Nanoparticles (RIKEN CSRS) ○HAYASHI, Toru; JIN, Kyoungsook; SEO, Hongmin; BONNET-MERCIER, Nadège; HASHIMOTO, Kazuhito; NAM, Ki Tae; NAKAMURA, Ryuei

1PC-007 Surface-modified metal sulfides as stable H₂ evolving photocatalyst in Z-scheme water splitting system with [Fe(CN)₆]^{3-/4-} redox mediator under visible light irradiation (Grad. Sch. Eng., Kyoto Univ.) ○HIGASHI, Masanobu; MATSUOKA, Hikaru; TOMITA, Osamu; ABE, Ryu

1PC-008[#] High-pressure hydrogen gas generation using water-soluble complex catalyst (RCPT, AIST) ○IGUCHI, Masayuki; HIMEDA, Yuichiro; KAWANAMI, Hajime

1PC-009 Synthesis and photoelectrochemical properties of tin-based sulfahalide semiconductors (Grad. Sch. Eng., Kyoto Univ.) ○MITANI, Kenta; HIGASHI, Masanobu; ABE, Ryu

1PC-010 Cold crystallization of some Schiff base compounds that exhibit tautomerization (DENSO CORP.; IIS, The Univ. of Tokyo; Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○IWASE, Katsunori; TOYAMA, Yasuhiro; YOSHIKAWA, Isao; HOUJOU, Hirohiko; YAMAMURA, Yasuhisa; SAITO, Kazuya

1PC-011 Preparation and characterization of Pt-Ni bimetallic alloy nanostructures for electrocatalytic oxygen reduction (Grad. Sch. Env. Sci., Hokkaido Univ.) ○TOKUDA, Shoichi; OGURA, Kazuya; KATO, Masaru; YAGI, Ichizo

1PC-012 Fabrication and photoelectrochemical application of hierarchical layered films of polythiophenes (Sch. Eng., The Univ. of Shiga Pref.) ○AKIYAMA, Tsuyoshi; HIRATA, Shuya; KUMAGAWA, Yu; SUZUKI, Atsushi; OKU, Takeo

1PC-013 Lithium Sulfur Secondary Battery using CNT as High Sulfur Loading Cathode (Future Technology Research Laboratory, ULVAC, Inc.; SAMSUNG R&D INSTITUTE JAPAN) ○FUKUDA, Yoshiaki; NAKANO, Haruhisa; NOZUE, Tatsuhiko; TSUKAHARA, Naoki; MURAKAMI, Hirohiko; OMODA, Ryo; YAMADA, Takano; ITO,

Seitaro; AIHARA, Yuichi

- 1PC-014** Anode activity effect exerted by Frenkel defect association cluster formation on anode surface for IT-SOFC (Tsuruoka Nat. Coll. of Tech.)
○SHIGEHARU, Ito; TAKAYA, Sato; AKIRA, Suzuki; HIROSHI, Okubo; TOSHIYUKI, Mori
- 1PC-015** Oxygen reduction activity of metal-doped carbon electrodes with hydrophobicity. (Grad. Sch. Env. Sci., Hokkaido Univ.) ○YANO, Shohei; KATO, Masaru; YAGI, Ichizo

Resources/Environment/GSC(Green Sustainable Chemistry)

- 1PC-016** Depolymerization of polycarbonate using CeO₂ nanocatalysts (Fac. Sci. Eng., Chuo Univ.) ○TAGUCHI, Minori; ISHIKAWA, Yuki; KATAOKA, Shiho; NAKA, Takashi; FUNAZUKURI, Toshitaka
- 1PC-017** Synthesis and Catalysis of a Titanium-Containing Vanadium-Oxygen Cluster Anion (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.)
○KIKUKAWA, Yuji; FUJITA, Keisuke; HAYASHI, Yoshihito
- 1PC-018** Development and evaluation of simple analysis for water quality using smart device (Toyama Nat. Coll. Technol.) ○MANAKA, Atsushi; FRUYAMA, Shoichi; TAFU, Masamoto
- 1PC-019** Electrocatalytic reduction of CO₂ in water using Mn complex (Toyota Central R&D Labs., Inc.) ○SATO, Shunsuke; MORIKAWA, Takeshi
- 1PC-020** Dynamic control of polylactide nanostructure bearing aldehyde at the chain end (Inst. Res. Initi., NAIST; Grad. Sch. Mat. Sci., NAIST)
○KAN, Kai; AKASHI, Mitsuru; AJIRO, Hiroharu
- 1PC-021** Synthesis and Properties of Alkali Metal-Containing Ionic Liquids from Aza-Crown Ethers (Grad. Sch. Sci., Kobe Univ.) ○OBA, Yukio; MOCHIDA, Tomoyuki
- 1PC-022** Development of the film-forming method for carbon nanomaterial by a photoresponsive dispersant (RISC, AIST) ○JINTOKU, Hirokuni; SATO, Tadatake; NAKAZUMI, Tomoka; MATSUZAWA, Yoko; KIHARA, Hideyuki; YOSHIDA, Masaru
- 1PC-023** Photochemical Synthesis of Phenanthrobenzofurans by Using Continuous Flow Reactor (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.; Sch. Eng., Osaka Pref. Univ.) ○OGAKI, Takuya; KOGA, Soichiro; MATSUI, Yasunori; OHTA, Eisuke; IKEDA, Hiroshi
- 1PC-024** Size selective synthesis and size dependency for CO oxidation reaction of tin oxide clusters containing divalent and tetravalent tin sites (Lab. Chem. Life Sci., Tokyo Tech.; ERATO, JST) ○INOMATA, Yusuke; ALBRECHT, Ken; YAMAMOTO, Kimihisa
- 1PC-025** Development of Mutual Separation Method of Platinum Group Metals using Primary Amines (Fac. Eng. Resource Sci., Akita Univ.)
○MATSUMOTO, Kazuya; YAMAKAWA, Sumito; JIKEL, Mitsutoshi
- 1PC-026** The effect of organic dehydrating agents on direct synthesis of tetraalkoxysilane (IRC3, AIST) ○FUKAYA, Keisuke; FUKAYA, Norihisa; CHOI, Seong Jib; HORIKOSHI, Toshio; SATO, Kazuhiko; CHOI, Jun-chul
- 1PC-027** Crystal-like Bipyridine-bridged Periodic Mesoporous Organosilica: Novel Catalyst Support for immobilization of Homogeneous Transition Metal Complex Catalyst (Inagaki Senior Fellow Lab., Toyota Central R&D Labs., Inc.) ○MAEGAWA, Yoshifumi; WAKI, Minoru; INAGAKI, Shinji
- 1PC-028** Heterogeneously-catalyzed flow Mizoroki-Heck reaction assisted by microwave irradiation (Gifu Pharm. Univ.) ○ICHIKAWA, Tomohiro; MIZUNO, Masahiro; UEDA, Shun; OHNEDA, Noriyuki; ODAJIMA, Hiromichi; SAWAMA, Yoshinari; MONGUCHI, Yasunari; SAJIKI, Hironao
- 1PC-029** Development of gold nanoparticle-titanium oxide ultra thin-films toward photocatalytic application (Sch. Eng., The Univ. of Shiga Pref.; Osaka. Pref. Univ. Col. Tech.) ○MITSUKAWA, Shota; AKIYAMA, Tsuyoshi; HINOUE, Mikiya; HIGASHIDA, Suguru; OKU, Takeo
- 1PC-030** Search of hydrogen-producing bacteria in a deep sea (Fac. Eng., KAIT) ○HASUI, Mizunao; KOBAYASHI, Kenta; KAWAKAMI, Syouhei; SAITO, Takashi; HIROKO, Makita
- 1PC-031** CO₂-expanded bio-based liquids as novel reaction media for biocatalysis (Sch. Biosci. Biotech., Tokyo Tech.) ○HOANG, Nam Hai; YAMADA, Shinjiro; NAGASHIMA, Yoshihiro; MORI, Shuichi; KAGECHIKA, Hiroyuki; MATSUDA, Tomoko
- 1PC-032** Toward A Novel Strategy for Sustainable Eco-Friendly Asymmetric Syntheses: Supramolecular Asymmetric Photodimerization of 2-Anthracene-carboxylate Mediated by Synthetic Antibody. (IMRAM, Tohoku Univ.; UIC & Dept. Appl. Chem., Osaka Univ.; Grad. Sch. Eng., Osaka Univ.)
○YOSPANYA, Wijak; SAKAMOTO, Seiji; ARAKI, Yasuyuki; NISHIJIMA, Masaki; INOUE, Yoshihisa; WADA, Takehiko
- 1PC-033** Catalyst-free Synthesis of Network Polymer Utilizing Nitrile N-Oxide Cross-linkers (Sch. Mater. & Chem. Tech., Tokyo Tech.)
○SOGAWA, Hiromitsu; TANI, Misako; TSUTSUBA, Toyokazu; TAKATA, Toshikazu
- 1PC-034** Photocatalytic activity of morphology controlled silver phosphate (Grad. Sch. Eng., Mie Univ.) ○MATSUDA, Hayato; KATSUMATA, Hideyuki; SUZUKI, Tohru; KANECO, Satoshi
- 1PC-035** Development of Functional Sign Sheet toward the City Function Support (Nissoku, Co. Ltd.; TMCIT) HARADA, Akemi; ○TAMURA, Kenji

- 1PC-036** Discussion on nanoparticle formation process of electron beam irradiation reduction method (Sch. Eng., Osaka Univ.) ○OKAZAKI, Tomohisa; OTAKE, Hiroaki; MATSUURA, Yoshiyuki; SEINO, Satoshi; NAKAGAWA, Takashi; YAMAMOTO, Takao
- 1PC-037** Electrochemical promotion of carbon dioxide reduction with hydrogen (Toyota Central R&D Labs., Inc.) ○SAKAMOTO, Yoshiyuki; OKUMURA, Kouhei; TANAKA, Toshiyuki; KUZUYA, Takashi; IMAGAWA, Haruo
- 1PC-038** Learning from nature: Bioinspired Mn complexes for the reduction of CO₂ to formates and formamides (OIST) ○DUBEY, Abhishek; KHUSNUTDINOVA, Julia
- 1PC-039** Sterilization effect hypochlorous water in traps of water-saving urinal (Res. Inst., TOTO Ltd.) ○ITAMI, Aiko; NAKAMURA, Yusuke; YAMAMOTO, Masahiro
- 1PC-040** Development of high-performance reverse osmosis membrane based on the in-depth structural analyses (Toray Industries, Inc.) ○KONDA, Takeshi; SHIMURA, Harutoki; OGAWA, Takafumi; KIMURA, Masahiro
- 1PC-041** Green oxidation method without using heavy metals (Grad. Sch. Eng., Osaka Pref. Univ.; Kobata Sangyo Co., Ltd.) ○NOMOTO, Akihito; NISHIGAHANA, Tamotsu; ITOH, Keiji; UESHIMA, Michio; KOBATA, Gohei; OGAWA, Akiya
- 1PC-042** Electrochemical oxidation of cellulose without a harsh condition (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○YAMAKI, Eri; IKEDA, Kazuma; OHNO, Hiroyuki; NAKAMURA, Nobuhumi
- 1PC-043** Development of a New Method for Dissimilar Materials Bonding Mediated by Epoxy Monolith Layer (Grad. Sch. Eng., Osaka Pref. Univ.)
○MATSUMOTO, Akikazu
- 1PC-044** Ruthenium-catalyzed Direct N-Alkylation of Amines with Carboxylic Acids (Grad. Sch. Sci., Eng., Yamagata Univ.) ○MINAKAWA, Maki
- 1PC-045** health monitoring system by analyzing defecation gas components in a toilet (Res. Inst., TOTO Ltd.) ○IKEDA, Mai; YAMAMOTO, Masahiro
- 1PC-046** Contribution of Condensed suructures with Conjugations to Photochemical Properties of Native Lignin Derivatives (Fac. Life Env. Sci, Pref. Univ. of Hiroshima) ○AOYAGI, Mitsuru; INOUE, Sara
- 1PC-047** Advanced RO membrane with chemical tolerance (Global Environment Research Laboratories, Toray) ○NISHIGUCHI, Yoshiki; TOKUYAMA, Takahiro; OGAWA, Takafumi; TOMIOKA, Hiroki; KIMURA, Masahiro
- 1PC-048** Advanced RO membrane for stable operation (Toray Industries, Inc.) ○OKABE, Jun; NAKATSUI, Koji; OGAWA, Takafumi; KIMURA, Masahiro
- 1PC-049** The Sources and Generation Mechanism of Odorous Compounds from Urine in Public Restroom (Res. Inst., TOTO Ltd.) ○IKEZAWA, Ayako; YAMAMOTO, Masahiro
- 1PC-050** Methanolysis of polycarbonate without catalyst under microwave irradiation (Fac. Eng., Sojo Univ.) ○IKENAGA, Kazutoshi; KORI, Satoshi
- 1PC-051** Synthesis and properties of bio-based network polymers by reversible Diels-Alder reaction (TRI-OSAKA) ○INOUE, Yohtarō; NAKAHASHI, Akiko; TACHI, Hideki
- 1PC-052** Development of analysis method for environmental hazardous substances utilizing IAMS (TOSHIBA CORP.) ○OKI, Mitsuhiro; SATO, Yuka; HATTORI, Saeko

New Materials

- 1PC-053** Controllable Broadband Optical Transparency and Wettability Switching of Biomimetic Temperature-Activated Solid/Liquid-Infused Nanofibrous Surfaces (Grad. Sch. Sci. Tech., Keio Univ.) ○MANABE, Kengo; SHIRATORI, Seimei
- 1PC-054** Analytical evaluation technique of Cellulose nanofibers (JFE TECHNO-RESEARCH CORPORATION) ○HOSOBATA, Minako; KAWASHIMA, Natsumi
- 1PC-055** Development of Thermally-Stable Mechanochromic Luminescent Materials Based on Organic-Inorganic Hybrids (Grad. Sch. Eng., Kyoto Univ.) ○SUENAGA, Kazumasa; TANAKA, Kazuo; CHUJO, Yoshiki
- 1PC-056** Development of a New Elastomer "Cyclopentene Rubber" (-Zeon Co.) ○NITADORI, Hiroyuki; OKUNO, Shingo; TSUNOGAE, Yasuo
- 1PC-057** Mechanical Behavior and Fluorescence of Elastic Organic Single Crystals (Dept. Appl. Chem., Nat. Def. Acad.) ○HAYASHI, Shotaro
- 1PC-058** Near Infrared luminescent Materials Created by Chemical Modification of Carbon Nanotubes (Grad. Sch. Eng., Kyushu Univ.; I₂CNER, Kyushu Univ.) ○SHIRAKI, Tomohiro; SHIRAISHI, Tomonari; ONITSUKA, Hisashi; NAKASHIMA, Naotoshi
- 1PC-059** Electrochemical grafting of aryl molecules onto monolayer graphene on Au(111) (Grad. Sch. Env. Sci., Hokkaido Univ.; Fac. Env. Earth Sci., Hokkaido Univ.; Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.; QBSC, JAEA) ○TANNO, Shun; SATO, Yusuke; NAKASHIMA, Koji; TAMURA, Kazuhisa; YASUDA, Satoshi; MURAKOSHI, Kei; KATO, Masaru; YAGI, Ichizo
- 1PC-060** Development of Quaternary Ammonium Salt-type Novel Amphiphilic Ionic Liquid (Grad. Sch. Human. Sci., Nara Women's Univ.; Cosmos Technical Center Co., Ltd.) ○KAWAI, Risa; YADA, Shiho; YOSHIMURA, Tomokazu; HASHIMOTO, Satoru; SUZUKI, Toshiyuki

- 1PC-061[#]** Pt Cluster Catalyst with Molecular-shape Selectivity Utilizing Dendritic Nanocavity (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO; PRESTO, JST) OKATO, Yuto; KAMBE, Tetsuya; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 1PC-062** Photoelectric Conversion in the Near-infrared Region Achieved by Near-infrared Absorbing Squaraine Dyes (Grad. Sch. Eng., Osaka Pref. Univ.) TANAKA, Shota; OMAEDA, Takeshi; FUJIWARA, Hideki; YAGI, Shigeyuki
- 1PC-063[#]** Property change of rotaxane-linked polymers by Star/linear topology transformation (Sch. Mater. & Chem. Tech., Tokyo Tech.) OAOKI, Daisuke; TAKATA, Toshikazu
- 1PC-064** Proton conductivity of polymer electrolyte membrane prepared by poly(acrylic acid)-*b*-polystyrene coated silica and polycarbonate (Grad. Sch. Sci., Eng., Yamagata Univ.) SHITO, Keiji; TAKAHASHI, Yuki; MASUHARA, Akito; ARITA, Toshihiko
- 1PC-065[#]** Super Tough Polymer with Supramolecular "Nanoalloy" (Toray Industries, Inc.) ONOMURA, Keiichiro; TAKAMOTO, Tatsuya; KOBAYASHI, Sadayuki
- 1PC-066[#]** White Emitting Proton Conducting Europium(III) based Metallo-Supramolecular Polymer (NIMS) OYEMINENI, S L V Narayana; HIGUCHI, Masayoshi
- 1PC-067** Elastomer particles cross-linked with rotaxane supramolecules and application to tough film formation (Fac. Textile Sci. Technol., Shinshu Univ.) OHIROSHIGE, Seina; KUREHA, Takuma; AOKI, Daichi; SAWADA, Jun; AOKI, Daisuke; TAKATA, Toshikazu; SUZUKI, Daisuke
- 1PC-068[#]** Metal titanium corrosion behaviour for surface scale removal to efficient titanium manufacturing (Grad. Sch. Eng., Kobe Univ.) OYAMAMOTO, Shintaro; MAKI, Hideshi; MIZUHATA, Minoru
- 1PC-069** Development of Environmentally-Responsive Organic-Inorganic Mesohybrid Thin Films (Grad. Sch. Eng., Nagoya Univ.) OHARA, Mitsuo; ORITO, Taiki; WAKITANI, Naoyuki; NAGANO, Shusaku; SEKI, Takahiro
- 1PC-070** Non-linear Fluorescent Color Changing of Naphthalene-bridged Urea Derivative with Fluoride Ion (Grad. Sch. Med., Eng., Univ. of Yamanashi) NINAGAWA, Hayato; OTAKAHASHI, Masaki; OBATA, Makoto
- 1PC-071[#]** Withdrawn
- 1PC-072[#]** Fabrication of High-Performance Li_0 -FePd/ α -Fe Nanocomposite Magnets (ICR, Kyoto Univ.; Adv. Mater. Eng. Div., Toyota Motor Corp.) OMATSUMOTO, Kenshi; SATO, Ryota; TRINH, Thang Thuy; SAKUMA, Noritsugu; TERANISHI, Toshiharu
- 1PC-073** Direct Surface Modification of Cellulose Nanofiber in Aqueous Media with Various Hydrosilane Derivatives (Dept. of Chem. Eng., NNCT) ONISHIJO, Mayu; ODA, Nozomu; SUGIYAMA, Hiroyuki; SHIMADA, Toyoshi
- 1PC-074** Direct Modification of Cellulose Nanofiber with Hydrosilanes in Cyclohexane-Water Biphasic System Using Wet Type Jet Mill (Dept. of Chem. Eng., NNCT) OISHIKAWA, Susumu; ODA, Nozomu; SUGIYAMA, Hiroyuki; KUROSAKI, Ryo; SHIMADA, Toyoshi
- 1PC-075** Evaluation of Water Vapor Barrier Properties of Surface Modified Nanofiber Membranes (Adv. Tech. R&D Center, Mitsubishi Electric Co.) OIZUTANI, Tasuku
- 1PC-076[#]** Low temperature sintering copper fine particles used at 150 - 100°C (Grad. Sch. Eng., Hokkaido Univ.) OYONEZAWA, Tetsu; TSUKAMOTO, Hiroki
- 1PC-077** Theoretical study of epoxy resin for carbon fiber reinforced plastics (CFRP) (Nippon steel & sumikin chemical Co., Ltd.) OCHI, Noriaki; FUJIMOTO, Shin-etsu; TAKEUCHI, Genki; TANIGUCHI, Yuichi; HAYASHI, Keiichi
- 1PC-078** Development of the novel aqueous materials (ADEKA Corporation) OHARA, Kenji; IRISAWA, Masatomi; MIYATA, Wataru; SHINOZUKA, Toyofumi; MURAI, Toshihiko; SAITO, Seiichi
- 1PC-079** Effect of filling ratio on the tensile behavior of slide-ring elastomers (Grad. Sch. Frontier Sci., The Univ. of Tokyo) OHORI, Ayaka; KATO, Kazuaki; ITO, Kohzo
- 1PC-080** Preparation of photochromic films using cellulose derivatives. (Grad. Sch. Sci. Tech., Yamaguchi Univ.) OYAMAZAKI, Suzuko; SHIMIZU, Dai
- 1PC-081[#]** Photoluminescent Copper(I) Pyridinophane Complexes: effect of steric bulk on structure and photophysical properties (OIST) OPATIL, Pradnya; KHUSNUTDINOVA, Julia
- 1PC-082** Development of coarse-grained models for predicting properties of epoxy resin (NIPPON STEEL & SUMIKIN CHEMICAL; RCAST, The Univ. of Tokyo) SHOJI, Naoyuki; YAMASHITA, Takefumi
- 1PC-083** A comparative study of intermolecular interaction models for the accurate molecular dynamics simulation (NIPPON STEEL & SUMIKIN CHEMICAL CO., LTD.; RCAST, The Univ. of Tokyo) SASAKI, Kohei; YAMASHITA, Takefumi
- 1PC-084[#]** Development of a Soft Porous Crystal for light Olefin/Paraffin Separation (WPI-iCeMS, Kyoto Univ.) OSEN, Susan; HOSONO, Nobuhiko; KUSAKA, Shinpei; HORI, Akihiro; SATO, Yohei; MATSUDA, Ryotaro; KITAGAWA, Susumu
- 1PC-085** Adhesion improvement of two color molding interface in Bio-PC (DENSO CORP.) OITO, Yuya; GOTO, Shinya; KOJIMA, Kazushige
- 1PC-086[#]** Two-step Syntheses of Fluorescent Enynes Using 1-Phosphorylpro-

pyne as Starting Compound (Fac. of Eng., Okayama Univ. of Sci.; Hunan Univ. Sci. Tech.) OORITA, Akihiro; SHINOHARA, Kenta; NISHIDA, Takanori; PENG, Lifan

Electro-Communications/Electronics

- 1PC-087** Development of facile formation method for copper wiring using optical patterning of organic-inorganic hybrid film electroless copper plating on glass and alicyclic polyimide film (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) WASHIE, Ikumi; OHISHI, Tomoji
- 1PC-088[#]** Development of Organic Semiconductor Based on Collaboration of Theoretical Simulation, Microflow Synthesis, and Device Fabrication (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.; Grad. Sch. Sci., Osaka Pref. Univ.; Rigaku Corp.) MATSUI, Yasunori; YAMAMOTO, Atsushi; ASADA, Toshio; KUMEDA, Motoki; TAKAGI, Kenichiro; SUENAGA, Yu; NAGAE, Kunihiko; OHTA, Eisuke; SATO, Hiroyasu; OGAKI, Takuya; NAITO, Hiroyoshi; KOSEKI, Shiro; IKEDA, Hiroshi
- 1PC-089[#]** Synthesis and Luminescent Properties of Phosphorescent Dipyridophenazine-Platinum(II) Complexes with Hole-Transporting Dendrons on their Acetylde Ligands (Grad. Sch. Eng., Osaka Pref. Univ.) OMATSUURA, Hiroki; MAEDA, Takeshi; YAGI, Shigeyuki; SAKURAI, Yoshiaki
- 1PC-090** Cross-coupling of Aryl(trialkyl)silanes for Organic Electronics (Grad. Sch. Sci. Eng., Chuo Univ.) OKOMIYAMA, Takeshi; MINAMI, Yasunori; HIYAMA, Tamejiro
- 1PC-091[#]** Development of thermally tough electrochromic devices using metallo-supramolecular polymer (NIMS) OSEINO, Yuki; KANAO, Miki; HIGUCHI, Masayoshi
- 1PC-092[#]** Synthesis of highly orientated metal-organic framework nanosheet crystals composed of triphenylene derivative at air/liquid interfaces. (Grad. Sch. Eng., Osaka Pref. Univ.; PRESTO, JST) OHATA, Takashi; MAKIURA, Rie
- 1PC-093** Surface assisted bottom-up synthesis of width-controlled graphene nanoribbon. (IAE, Kyoto Univ.) OKOJIMA, Takahiro; SHAOTANG, Song; NAKAE, Takahiro; SAKAGUCHI, Hiroshi
- 1PC-094[#]** Synthesis and Luminescent Properties of Tris-Cyclometalated Iridium(III) Complexes Bearing Hole- and Electron-Transporting Dendrons (Grad. Sch. Eng., Osaka Pref. Univ.) OKAMURA, Naoki; MAEDA, Takeshi; YAGI, Shigeyuki
- 1PC-095[#]** Tuning of Excimer Emission from Phosphorescent Organoplatinum (II) Complexes Aimed at Non-Doped White Organic Light-Emitting Diode (Grad. Sch. Eng., Osaka Pref. Univ.) OKAMURA, Naoki; MAEDA, Takeshi; YAGI, Shigeyuki
- 1PC-096** Molecular dynamics simulation study on self-assembly of DA-type semiconductor polymers in thin solution films (FLEC, AIST) OYONEYA, Makoto; MATSUOKA, Satoshi; TUTSUMI, Jun'ya; HASEGAWA, Tatsuo
- 1PC-097** Electromagnetic wave absorbing characteristics of polymer based composites with silver nanoparticle/carbon fillers in millimeter-wave frequencies (Future Technology Research Laboratory, ULVAC, Inc.) OHSAWA, Masato; HASHIMOTO, Natsuki; OH, Seungjun; HAYASHI, Shigeo
- 1PC-098[#]** Brown/Transparent Electrochromic Device Fabrication using Cobalt Hexacyanoferrate Nanoparticle Ink (NRI, AIST) OELGHOOOL, Kholoud; KAWAMOTO, Tohru; HIROSHI, Watanabe; MAHMOUD, Emara; KAZUKI, Tajima
- 1PC-099** Development of packaging technology by the high performance silver nanoparticles (KANKYO RESILIENCE CO., LTD; Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ONAGASAWA, Hiroshi; ITOH, Kiminori; AMEMIYA, Takashi
- 1PC-100** Degradation mechanism of resin for electro device by chemical solution (Omron Corporation Material Technology Department) OSAMU, Ohtani
- 1PC-101** Fabrication of transparent fine electrodes by gravure offset printing of silver nanoparticle ink (Future Technology Research Laboratory, ULVAC, Inc.) OHSAWA, Masato; HASHIMOTO, Natsuki; HAYASHI, Shigeo; OH, Seungjun; OHSAWA, Masato
- 1PC-102** Alkyl Chain Length Dependence of Solution-Processable Organic Semiconductors: Stabilization and Modulation of Layered Herringbone Packing (FLEC, AIST) MINEMAWARI, Hiromi; TANAKA, Mutsuo; TSUZUKI, Seiji; INOUE, Satoru; YAMADA, Toshikazu; KUMAI, Reiji; SHIMOI, Yukihiro; HASEGAWA, Tatsuo
- 1PC-103[#]** Metallo-supramolecular Polymer Nanosheets for Improved Electronic Properties (MANA, NIMS) OCHAKRABORTY, Chanchal; MORIYAMA, Satoshi; HIGUCHI, Masayoshi
- 1PC-104** Evaluation of relationships of compositions of Ag nanoinks to properties of sintered films by using a small amount of inks (Div. of Electronic Mater., Osaka Munic. Tech. Res. Inst.; Electronic Materials Division, Daiken Chemical Co., Ltd.) OKASHIWAGI, Yukiyasu; SAITOH, Masashi; HASEGAWA, Takahiro; KAKIUCHI, Hiroshi; CHIGANE, Masaya

Medical Care/Health Care/Biotechnology

- 1PC-105[#]** Development of Innovative Therapeutic Polymeric Micelles for Intractable Neurological Disease (Grad. Sch. Eng., The Univ. of Tokyo; Neuro, Tokyo Med. and Dental Univ.; Innovation Center of NanoMedicine (iCONM)) ANRAKU, Yasutaka; KUWAHARA, Hiroya; YOKOTA,

- Takanori; KATAOKA, Kazunori
- 1PC-106** Isolation of Autophagosomes using Magnetic-Plasmonic Hybrid Nanoparticles (Sch. Mat. Sci., JAIST) ○TAKAHASHI, Mari; MOHAN, Priyank; MUKAI, Kohjiro; TAKEDA, Yuichi; MATSUMOTO, Takeo; MATSUMURA, Kazuaki; TAKAKURA, Masahiro; TAGUCHI, Tomohiko; MAENOSONO, Shinya
- 1PC-107** Relationship between the three dimensional structure of hydrogel particles and protein-uptake behavior. (Fac. Textile Sci. Technol., Shinshu Univ.) ○HOSHIO, Kensuke; KUREHA, Takuma; MATSUI, Shusuke; SUZUKI, Daisuke
- 1PC-108[#]** Synthesis of Dipyridophenazine Derivatives Bearing Electron-donating Side Arms and Their Photosensitization of Singlet Oxygen Generation (Grad. Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Hiroshima Univ.) ○HAYASHI, Yuichiro; MAEDA, Takeshi; YAGI, Shigeyuki; ENOKI, Toshiaki; OYAYAMA, Yousuke; OHSHITA, Joji; MATSUI, Yasunori; IKEDA, Hiroshi
- 1PC-109[#]** Novel Bicelles with Unprecedented Stability Using Designed Surfactants (RIKEN CEMS) ○UCHIDA, Noriyuki; MATSUI, Ryoichi; AIDA, Takuzo; ISHIDA, Yasuhiro
- 1PC-110[#]** Phenotypic Plasticity Intrinsic in Vesicle-based Model Protocell Emerged by Primitive Central Dogma (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○MATSUO, Muneyuki; KURIHARA, Kensuke; TOYOTA, Taro; SUZUKI, Kentaro; SUGAWARA, Tadashi
- 1PC-111** Development of Assay System Utilizing ¹⁹F MR Probes for Detecting a Trace Amount of Bio-active Molecules (Grad. Sch. Eng., Kyoto Univ.) ○NARIKIYO, Hayato; KAKUTA, Takahiro; TANAKA, Kazuo; GON, Masayuki; CHUJO, Yoshiki
- 1PC-112[#]** Construction of a Macrocyclic Peptide Library with Induced β -Hairpin Motif and Discovery of β -Hairpin Peptide Ligands (Grad. Sch. Sci., The Univ. of Tokyo) ○YOSHIKANE, Takafumi; GOTO, Yuki; SUGA, Hiroaki
- 1PC-113[#]** Development of post-translational acyl-transfer reactions toward formation of peptides with alkyl-backbone (Grad. Sch. Sci., The Univ. of Tokyo) ○KURODA, Tomohiro; GOTO, Yuki; SUGA, Hiroaki
- 1PC-114[#]** Development of a post-translational chemical modification method toward oxazole-backbones via alkylnylglycine (Grad. Sch. Sci., The Univ. of Tokyo) ○TSUTSUMI, Haruka; GOTO, Yuki; SUGA, Hiroaki
- 1PC-115** Screening for inhibitors of kynurenine-production from marine organisms (Sch. Adv. Eng., Kogakuin Univ.) ○SASAKI, Tomomi; OHNO, Osamu; ASAI, Akira; TAKIKAWA, Osamu; MATSUNO, Kenji
- 1PC-116** Screening of the inhibitors of lipopolysaccharide (LPS) function from the marine sponge (Sch. Adv. Eng., Kogakuin Univ.) ○TERASAKI, Takuro; MATSUNO, Kenji; OHNO, Osamu
- 1PC-117** Development of 2-naphthylmethoxymethyl protecting group and its application to the stereoselective glycosylation (Fac. Sci., Kyushu Univ.) ○JOH, Yohei; SATO, Takuya; OISHI, Tohru; TORIKAI, Kohei
- 1PC-118[#]** In vitro synthesis of various backbone-modified peptides by post-translational modification reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○KATO, Yasuharu; GOTO, Yuki; SUGA, Hiroaki
- 1PC-119** Identification of receptor proteins relevant to macrophage phagocytic activity of GMAF and its mechanistic investigation (Grad. Sch. Biosci. Bioind., Tokushima Univ.) ○IKAME, Saki; HAMADA, Ken; NISHIGAWA, Ryohei; YAMADA, Hisatsugu; METTE, Martin; KUBO, Kentaro; INUI, Toshio; UTO, Yoshihiro
- 1PC-120** Functional analysis of a kalkipyron with selective cytotoxicity under nutrient starvation conditions (Sch. Adv. Eng., Kogakuin Univ.) ○NAGAYA, Yuki; ITO, Ami; IWASAKI, Arihiro; SUENAGA, Kiyotake; MATSUNO, Kenji; OHNO, Osamu
- 1PC-121** Development of peptide ligation reaction on DNA scaffold (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○YANASE, Masafumi; HAYASHI, Gosuke; OKAMOTO, Akimitsu
- 1PC-122** Development of a bovine colostrum-derived macrophage activating factor and its mechanistic investigation (Grad. Sch. Biosci. Bioind., Tokushima Univ.) ○KUWADA, Emi; HAMADA, Ken; IKAME, Saki; AONO, Yukari; YAMADA, Hisatsugu; METTE, Martin; KUBO, Kentaro; INUI, Toshio; UTO, Yoshihiro
- 1PC-123** Construction of Artificial Functional Protein:Site-Selective Molecule Introduction of Arranging the Active site in Chymotrypsin (Appl.Chem. Kanazawa Inst. of Tech.) ○HATAKEYAMA, Takahiro; KOGA, Masato; ONO, Shin
- 1PC-124[#]** Iron oxide nanoparticles for High performance positive MRI contrast agents (Grad. Sch. Eng., The Univ. of Tokyo; RIKEN CEMS) ○TAKEUCHI, Toshiaki; SIM, Seunghyun; MIYAJIMA, Daigo; AIDA, Takuzo
- 1PC-125** In vitro selection of peptides binding to the PatD cyclodehydratase (Grad. Sch. Sci., The Univ. of Tokyo) ○TAKEUE, Haruka; TSUNODA, Shotaro; GOTO, Yuki; SUGA, Hiroaki
- 1PC-126[#]** Kinesin-driven active substrate for cells giving mechanical noise stimuli (Grad. Sch. Sci., Eng., Saitama Univ.) ○KAWAMURA, Ryuzo; UEHARA, Daiki; KOBAYASHI, Naritaka; NAKABAYASHI, Seiichiro; YOSHIKAWA, Hiroshi
- 1PC-127[#]** Synthesis and evaluation of heterodimers of macrocyclic peptides towards a novel peptide delivery method (Fac. Sci., The Univ. of Tokyo) ○MIYAIRI, Kyohei; GOTO, Yuki; SUGA, Hiroaki
- 1PC-128** Molecularly Imprinted DDS Nano-carrier Acquiring Stealth Cap-
- ability Induced by Cloaking Endogeneous Albumin (Grad. Sch. Eng., Kobe Univ.) ○KITAYAMA, Yukiya; SASAO, Reo; TOH, Kazuko; MATSUMOTO, Yu; KATAOKA, Kazunori; TAKEUCHI, Toshifumi
- 1PC-129[#]** Exploration of human protein-protein or peptide-protein interactions by means of mRNA display (Grad. Sch. Sci., The Univ. of Tokyo) ○YAJIMA, Ryo; KATOH, Takayuki; SUGA, Hiroaki
- 1PC-130** Development of peptidase-targeted fluorescence probes with improved cellular retention. (Grad. Sch. Med., The Univ. of Tokyo) ○OBARA, Rui; KAMIYA, Mako; URANO, Yasuteru
- 1PC-131[#]** Novel Method for Detection of Single Pathogenic Particle based on DNA Elongation Induced by Surface Plasmon Heating (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.) ○KAWAHARA, Yuki; ISHIDA, Akito
- 1PC-132[#]** On site derivatization of steroid by scanning probe electrospray ionization (Grad. Sch. Sci., Osaka Univ.) ○OTSUKA, Yoichi; KOBAYASHI, Kazuki; KOHIGASHI, Tsuyoshi; ARAKAWA, Ryuichi; MATSUMOTO, Takuya
- 1PC-133** Culture of mushroom mycelium with antitumor activity and evaluation of immunostimulation ability (Fac. Eng., KAIT) ○NAGAYAMA, Junko; HUIJIKAWA, Daiti; SAITO, Takashi
- 1PC-134** Effects of macromolecular architecture on antimicrobial and hemolytic activities of cationic aliphatic polycarbonates (Fac. Eng., Yamagata Univ.) TAKAKUWA, Kazuki; KISHI, Kouhei; ○SAITO, Keita; YOSHIHIRO, Ayano; TANAKA, Masaru; YANO, Shigekazu; FUKUSHIMA, Kazuki
- 1PC-135** Fabrication of Biodegradable and Injectable Hydrogel with IPN Structure for Cartilage Tissue Engineering. (Grad. Sch. Chem. Sci. Technol., TUS) ○ISHIKAWA, Shohei; IJIMA, Kazutoshi; MATSUKUMA, Daisuke; HASHIZUME, Mineo; IJIMA, Michihiro; OTSUKA, Hidenori
- 1PC-136** Development of highly selective irreversible inhibitors based on CFA chemistry (Grad. Sch. Pharm., Kyushu Univ.) ○FUCHIDA, Hirokazu; SHINDO, Naoya; SATO, Mami; HATSUYAMA, Yuji; MIURA, Chizuru; OKAMOTO, Kei; WATARI, Kosuke; ONO, Mayumi; OJIDA, Akio
- 1PC-137[#]** Withdrawn
- 1PC-138[#]** Withdrawn
- 1PC-139** Development of High Strength and Fouling Resistant Hollow Fiber Membrane for Membrane Integrated Fermentation Reactor System (Toray Industries, Inc.) ○KOBAYASHI, Atsushi; TAKEUCHI, Norihiro; HATAHIRA, Satoko; HANAKAWA, Masayuki; MIMITSUKA, Takashi; KIMURA, Masahiro
- 1PC-140[#]** Development of Conformational Code for Organic Molecules (CCOM) Program for the Input of Artificial Intelligence (AIST) ○IZUMI, Hiroshi
- 1PC-141** Utilization Technology of Whale Oil as a Source for DHA and EPA (Yamaguchi Pref. Ind. Tech. Inst.) ○IWATA, Arihiro; OGAWA, Tomoki; YOSHIDA, Kouji; FUJINAGA, Atsushi
- 1PC-142[#]** Spectral properties of non-aggregative phosphorous-phthalocyanine in aqueous media (NIMS) ○ISAGO, Hiroaki; FUJITA, Harumi
- 1PC-143** Discovery and Application of Asymmetric Ring-Opening Reaction by Plant Components. (KYOWA PHARMA CHEMICAL CO.,LTD.) ○TAKEUCHI, Yuki; ASANO, Tatsuhiro; TSUZAKI, Kazuya; WADA, Koichi
- 1PC-144[#]** Pancreatic Lipase Inhibitory Activity of Quinic Acid Derivatives (Grad. Sch. Sci., Osaka Pref. Univ.) ○MORIZANE, Masaaki; KITAGAWA, Kai; NISHIDA, Kotaro; KOJIMA, Hideo
- 1PC-145** Elucidation of adsorbed state of DNA bases on gold surfaces using highly-sensitive Raman spectroscopy (Fac. Sci., Saitama Univ.) FUTAMATA, Masayuki; ○SEKI, Masako
- 1PC-146** Development of new compact and hand carried room-sanitizing system using NO₂ gas (ENA Co.,Ltd.) ○AKUTSU, Toshin; TAMURA, Kenji
- 1PC-147** High-sensitive detection of tumor markers by pipette tip type fluorescent immuno-sensing system (Grad. Sch. Eng., Kobe Univ.) ○TAKANO, Eri; SHIMURA, Nobuaki; AKIBA, Takeshi; TAKEUCHI, Toshifumi
- 1PC-148** Development of industrial process for unnatural amino acids through asymmetric alkylation utilizing Maruoka catalyst(R) (NAGASE L&HC) ○MURAKAMI, Sayoko; YAMAMOTO, Kenichiro
- 1PC-149** Development of an analytical method for degree of cross-linking in the insoluble pharmaceutical polymer TRK-390 using solid-state ¹³C NMR spectroscopy (Toray Industries, Inc.) ○TAKAHASHI, Hirozumi; SHIRAKI, Motohiro; TOKUOKA, Mariko

Room A1

Fourth Building, Section A J413

Analytical Chemistry

Thursday, March 16, AM

Separation/Flow injection analysis

Chair: SUEYOSHI, Kenji (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1A1-08, 1A1-09, 1A1-10, 1A1-11, 1A1-12, 1A1-13)

1A1-08 Investigation of water-hydrophilic organic solvent-fatty acid ternary mixed solvent solution and its application to separation technology (Fac. Sci. Eng., Doshisha Univ.) ○SANADA, Nobuyuki; UEDA, Syunngo; OGAWA, Kazuhiro; MORI, Ryuki; WADA, Susumu; TSUKAGOSHI, Kazuhiko

1A1-09 Investigation of phase separation multi-phase flow with PEG/Dextran mixed solution and its application to microspace separation technology (Grad. Sch. Eng., Doshisha Univ.) ○IMANISHI, Fumiya; KANEMATSU, Hiroshi; TSUKAGOSHI, Kazuhiko

1A1-10 Investigation of specific fluidic behavior observed in Y-type micro-channel and its application to analytical chemistry (Grad. Sch. Eng., Doshisha Univ.) ○YAMAWAKI, Bun; NAKATA, Yuko; TSUKAGOSHI, Kazuhiko

1A1-11 Application of a capillary column using annular flow to high performance liquid chromatography system (Grad. Sch. Eng., Doshisha Univ.) ○YAMADA, Kento; NAKAYAMA, Yukari; TSUKAGOSHI, Kazuhiko

1A1-12 Continuous Determination of Chlorine Dioxide by Chemiluminescent Method(I) (NAIGAI CHEMICAL PRODUCTS) ○NODA, Sugumi; SUETAKE, Yusuke; YOSHIDA, Masaki; MARUGAME, Kazuo

1A1-13 Continuous Determination of Chlorine Dioxide by Chemiluminescent Method (II) (Naigai Chemical Products Co.Ltd) ○SUETAKE, Yusuke; NODA, Sugumi; YOSHIDA, Masaki; MARUGAME, Kazuo

Chromatography/Electrophoresis

Chair: TSUKAGOSHI, Kazuhiko (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(1A1-15, 1A1-17, 1A1-18, 1A1-19)

1A1-15 Development of Selection Method of DNA Aptamers Targeting Small Molecules based on CE-SELEX: Application for Cocaine-Biosensor (Advanced Research Div., Panasonic Corp.) ○ONODERA, Mari; SUEYOSHI, Kenji; UMETSU, Mitsuo

1A1-17 The new method for measurement of α -tocopherol in lipoprotein classes and estimation of the values in healthy human serums. (Saitama Prefectural University) ○KONTA, Akari; TAKADA, Rie; KATO, Mikito; HIROWATARI, Yuji

1A1-18 Separation of rare earth metals by multistep pH-peak-focusing high-performance liquid chromatography with a hydrophilic polymer gel column (Grad. Sch. Sci., Eng., Saitama Univ.) ○KEGASAWA, An; YASUDA, Hirotaka; SAITO, Shingo; SHIBUKAWA, Masami

1A1-19 Effect of chemical modification on separation behavior in paper chromatography (Fac. Eng., Yamagata Univ.) ○KOSEKI, Seiya; MATSUMURA, Yoshimasa; OCHIAI, Bungo

Thursday, March 16, PM

Chair: KUNIMURA, Shinsuke (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(1A1-34, 1A1-36, 1A1-38, 1A1-39)

1A1-34 Nanofluidic device embedded with metamaterials for ultra-sensitive infrared absorption spectroscopy and its application (RIKEN) ○LE, Hac Huong Thu; TANAKA, Takuo

1A1-36 Novel Transient Absorption Technique, RIPT method, and Simultaneous Measurements of Transient Absorption and Luminescence of Organic molecules with Intense Luminescence (UNISOKU Co., Ltd.) ○NAKAGAWA, Tatsuo; SUENOBU, Tomoyoshi; SUZUKI, Toshiaki; OKAMOTO, Kido; HANADA, Hiroaki; KOYAMA, Kumiko; KATOH, Ryuzi

1A1-38 Rapid-Scan Fourier-Transform Coherent Anti-Stokes Raman Scattering Spectroscopy with Heterodyne Detection (Grad. Sch. Sci., The Univ. of Tokyo) ○LUO, Yizhi; HIRAMATSU, Kotaro; IDEGUCHI, Takuro; GODA, Keisuke

1A1-39 Observation of Ni nanocrystals on HOPG by surface elemental analysis, XANAM (Grad. Sch. Eng., Nagoya Univ.) ○SUZUKI, Shushi; MUKAI, Shingo; CHUN, Wang-jae; NOMURA, Masaharu; ASAKURA, Kiyotaka

Chair: SHITANDA, Isao (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(1A1-41, 1A1-43, 1A1-44, 1A1-46)

1A1-41 Fabrication of Fluorescent Chemosensor Arrays with Molecular Self-Assemblies (IIS, The Univ. of Tokyo; Bowling Green State Univ.) SASAKI, Yui; ANZENBACHER, Pavel; ○MINAMI, Tsuyoshi

1A1-43 Fabrication of A Colorimetric Chemosensor Array with Molecular Self-Assemblies (IIS, The Univ. of Tokyo; Grad. Sch. Sci., Eng., Yamagata Univ.) ○SASAKI, Yui; TOKITO, Shizuo; MINAMI, Tsuyoshi

1A1-44 Ionophore-based colorimetric sodium ion sensing on pH-buffer-integrated paper-based devices (Grad. Sch. Sci. Tech., Keio Univ.) ○SHIBATA, Hiroyuki; HENARES, Terence; YAMADA, Kentaro; SUZUKI, Koji; CITTERIO, Daniel

1A1-46 Alleviation effects of functional ingredients on free radical generated through tyrosinase reaction (Tohoku Institute of Tech.) ○TADA, Mika

Chair: INO, Kosuke (16 : 50~17 : 40)

* 16:40-16:50: interval for laptop PC connection.(1A1-48, 1A1-49, 1A1-50, 1A1-51, 1A1-52)

1A1-48 A rapid and highly sensitive detection of influenza virus by an electrochemical detection with an immunoliposome encapsulating of potassium ferrocyanide (Grad. Sch. Comprehensive Scientific Research, Pref. Univ. of Hiroshima) ○NAKANISHI, Riko; USUI, Arisa; MITOMA, Yoshiharu; HIFUMI, Emi; EGASHIRA, Naoyoshi

1A1-49 Electrochemical Sensing of Neurotoxic Agents Based on Their Promotion Effect of Electron Transfer on Au Electrode (Fac. Adv. Sci. Tech., Kumamoto Univ.) SHIMADA, Hiroshi; NOGICHI, Shiori; KITAMURA, Yusuke; ○IHARA, Toshihiro

1A1-50 Paper-based Electrochemical Flow Biosensor using Enzyme-modified polystyrene particles (Fac. Sci. Technol., TUS) ○KISHIRO, Kanako; HOSHI, Yoshinao; SHITANDA, Isao; ITAGAKI, Masayuki

1A1-51 Detection of trace amount of As³⁺ ion with Au nanoparticles embedded carbon film electrodes (ASRL, Saitama Inst. of Tech.) MACHIDA, Tatsuya; SHIBA, Shunsuke; KAMATA, Tomoyuki; KATO, Dai; ○NIWA, Osamu

1A1-52 Fabrication and characterization of screen-printed silver-silver sulfate reference electrode (Fac. Sci. Technol., TUS) ○KOMODA, Masato; HOSHI, Yoshinao; SHITANDA, Isao; ITAGAKI, Masayuki

Friday, March 17, AM

Fluorescence · Photoluminescence analysis

Chair: OZAWA, Takeaki (9 : 00 ~ 10 : 10)

* 8:50-9:00: interval for laptop PC connection.(2A1-01, 2A1-02, 2A1-03, 2A1-04, 2A1-06)

2A1-01 Electrochemical Bacteria Recognition Using Metal Nanoparticles Modified With Complexes (Sci. Tec., Sophia Univ.) ○SATO, Hiroki; KISHI, Yumino; TSUCHIDO, Yuji; ENDO, Akira; HASHIMOTO, Takeshi; HAYASHITA, Takashi

2A1-02 Bacteria Recognition Using Phenylboronic Acid Probe Modified to Dendrimer (Sci. Tec., Sophia Univ.) ○IKENO, Masaru; HORIUCHI, Ryosuke; TSUCHIDO, Yuji; HASHIMOTO, Takeshi; HAYASHITA, Takashi

2A1-03 Design and Function of Fluorescent Nanoparticles for Bacteria Detection in Water (Sci. Tec., Sophia Univ.) ○KITAMURA, Aya; KASAI, Yuna; TSUTIDO, Yuji; HASHIMOTO, Takeshi; HAYASHITA, Takashi

2A1-04 Reversible fluorescent probes for live-cell imaging of endogenous hydrolytic sulfides (Grad. Sch. Pharm., The Univ. of Tokyo) ○UMEZAWA, Keitaro; KAMIYA, Mako; URANO, Yasuteru

2A1-06 Design and Synthesis of Firefly Luciferin Analogues emitting in Near-Infrared Wavelength (Grad. Sch. Sci. Tech., Keio Univ.) ○IKEDA, Yuma; SAITOH, Tsuyoshi; NIWA, Kazuki; IWASAWA, Naoko; CITTERIO, Daniel; NISHIYAMA, Shigeru; SUZUKI, Koji

Cell sorting

Chair: URANO, Yasuteru (10 : 20~11 : 10)

* 10:10-10:20: interval for laptop PC connection.(2A1-09, 2A1-10, 2A1-11, 2A1-12, 2A1-13)

2A1-09 Light-sheet fluorescence imaging flow cytometry with a mirror-embedded microfluidic device (Grad. Sch. Sci., The Univ. of Tokyo) ○MIURA, Taichi; MIKAMI, Hideharu; OZEKI, Yasuyuki; GODA, Keisuke

2A1-10 High-Throughput Fluorescence Imaging Flow Cytometry with an Enhanced Image Resolution (Grad. Sch. Sci., The Univ. of Tokyo) ○HARMON, Jeffrey; MIKAMI, Hideharu; OZEKI, Yasuyuki; GODA, Keisuke

2A1-11 Imaging flow cytometry with sensitivity-optimized coded-excitation fluorescence microscopy (Grad. Sch. Sci., The Univ. of Tokyo) ○YIFAN, Liu; ZHEN, Li; STEFANIA, Moroianu; MIKAMI, Hideharu; OZEKI, Yasuyuki; GODA, Keisuke

2A1-12 Single cell separation device for circulating tumor cells in blood (Grad. Sch. Eng., Nagoya Univ.) ○KUBOYAMA, Daiki; ONOSHIMA, Daisuke; TATSUKOSHI, Kentaro; KIHARA, Naoto; SHAO, Long; KOGUCHI, Ryohei; ODAKA, Hidefumi; YUKAWA, Hiroshi; TANAKA, Hiromasa; HASE, Tetsunari; ISHIKAWA, Kenji; HORI, Masaru; BABA, Yoshinobu

- 2A1-13** Nanowires for capturing extracellular vesicles inducing abnormal cell growth (Grad. Sch. Eng., Nagoya Univ.) ○NAKAMURA, Yuta; YASUI, Takao; YANAGIDA, Takeshi; KAJI, Noritada; KANAI, Masaki; NAGASHIMA, Kazuki; KAWAI, Tomoji; BABA, Yoshinobu

Cell analysis

Chair: HISAMOTO, Hideaki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2A1-15, 2A1-17, 2A1-18, 2A1-19)
- 2A1-15**** Electrochemicolor imaging for cell analysis (Grad. Sch. Eng., Tohoku Univ.) ○INO, Kosuke; KANNO, Yusuke; SHIKU, Hitoshi; MATSUE, Tomokazu
- 2A1-17** Stem Cell Imaging and Hyperthermia Effect Using Quantum-magnetic Nanohybrid Particles (Nagoya Univ.) ○KOBAYASHI, Kaori; YUKAWA, Hiroshi; MURATA, Yuki; JO, Junichiro; ONOSHIMA, Daisuke; YAMAMOTO, Masaya; ISHIKAWA, Tetsuya; TABATA, Yasuhiko; BABA, Yoshinobu
- 2A1-18** Development of microfluidic devices for detecting lung-cancer-related proteins in lysates of sediment of the pleural effusion (Grad. Sch. Eng., Nagoya Univ.) ○ISHIKAWA, Koya; KASAMA, Toshihiro; YOGO, Naoyuki; HASE, Tetsunari; KONDO, Masashi; KAJI, Noritada; HASEGAWA, Yoshinori; BABA, Yoshinobu
- 2A1-19**** Fingerprinting of protein characteristics using cross-reactive fluorescent polyamino acids (BRI, AIST) ○TOMITA, Shunsuke; ISHIHARA, Sayaka; KURITA, Ryoji

Friday, March 17, PM

Bioanalysis · Electroanalysis

Chair: KURITA, Ryoji (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2A1-28, 2A1-31, 2A1-32)
- 2A1-28*** Young Scholar Lectures of CSJ Micro/nano electrochemical device for bioassays (Grad. Sch. Eng., Tohoku Univ.) ○INO, Kosuke
- 2A1-31** Highly sensitive detection of influenza virus using sugar-mimic peptide-modified diamond electrode (Fac. Sci. Tech., Keio Univ.) ○UJIE, Michiko; MATSUBARA, Teruhiko; YAMAMOTO, Takashi; EINAGA, Yasuaki; SATO, Toshinori
- 2A1-32**** Development of scanning ion conductance microscopy for time-lapse imaging of neuron (Coll. Sci. Eng., Kanazawa Univ.) ○TAKAHASHI, Yasufumi; ZHOU, Yuanshu; FUKUMA, Takeshi

Biosensor · Microfluidic device

Chair: TAKAHASHI, Yasufumi (14 : 40~15 : 30)

- * 14:30-14:40: interval for laptop PC connection.(2A1-35, 2A1-37, 2A1-39)
- 2A1-35*** Simple, Rapid, and Highly Sensitive Multi-assay of Enzyme Activity Based on Double Sweeping (Grad. Sch. Eng., Osaka Pref. Univ.) SANUKI, Ryota; OSUEYOSHI, Kenji; ENDO, Tatsuro; HISAMOTO, Hideaki
- 2A1-37*** High-sensitive detection of tumor markers by pipette tip type fluorescent immuno-sensing system (Grad. Sch. Eng., Kobe Univ.) ○TAKANO, Eri; SHIMURA, Nobuaki; AKIBA, Takeshi; TAKEUCHI, Toshifumi
- 2A1-39** Observation of fluorescence and chemiluminescence with water-hydrophilic/hydrophobic organic mixed solvent solution in a micro space. (Grad. Sch. Eng., Doshisha Univ.) ○KONO, Akihiro; ITO, Yuki; TSUKAGOSHI, Kazuhiko

Optical analysis

Chair: NISHIZAWA, Seiichi (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(2A1-41, 2A1-42, 2A1-43, 2A1-45)
- 2A1-41*** Novel Method for Detection of Single Pathogenic Particle based on DNA Elongation Induced by Surface Plasmon Heating (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.) ○KAWAHARA, Yuki; ISHIDA, Akito
- 2A1-42** Development of immunosensor to detect DNA methylation using novel linker molecule with anticancer drug (BRI, AIST) ○KURINOMARU, Takaaki; KOJIMA, Naoshi; YOSHIOKA, Kyoko; KURITA, Ryoji
- 2A1-43**** Spyrolactam capped cyanine dyes for designing NIR probes to target multiple metal ions (Fac. Sci. Tech., Keio Univ.) ○KAR, Chirantan; NISHIYAMA, Shigeru; CITTERIO, Daniel; SUZUKI, Koji
- 2A1-45**** Characterization of a cashew resin film and a linseed oil film (JEOL Ltd.) ○NIIMURA, Noriyasu; TERASHIMA, Hiroshi

Fluorescence · Raman scattering

Chair: ISHIDA, Akito (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(2A1-48, 2A1-49, 2A1-50, 2A1-51, 2A1-52)
- 2A1-48*** Label-free investigation of agonist-activated platelet aggregation with optofluidic time-stretch microscopy (Grad. Sch. Sci., The Univ. of Tokyo) ○YIYUE, Jiang; CHENG, Lei; ATSUSHI, Yasumoto; YASUYUKI, Ozeki

YATOMI, Yutaka; KEISUKE, Goda

- 2A1-49** Preparation of alkylne-labeled 2-nitroimidazoles for identification of tumor hypoxia by Raman spectroscopy (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KURIHARA, Ryohsuke; IKEMURA, Yuta; TANABE, Kazuhito
- 2A1-50** Spacer Effect of Phenyl Boronic Acid Pyrene Fluorescence Probe/CyD Complex for Selective Monosaccharide Detection (Sci. Tec., Sophia Univ.) ○KOJIMA, Shohei; MIZUTA, Yuji; SUGITA, Ko; TSUCHIDO, Yuji; HASHIMOTO, Takeshi; HAYASHITA, Takashi
- 2A1-51** Evaluation of Phosphoric-Acid Recognition Using Co²⁺ Coordinated Dipicolylamine Dendrimer Azoprobe (Sci. Tec., Sophia Univ.) ○ISHIDA, Masaki; TABUCHI, Naoto; HASHIMOTO, Takeshi; HAYASHITA, Takashi
- 2A1-52** Selective Recognition of Phosphoric Acid Derivatives by Dipicolylamine Fluorescent Probe/Cyclodextrin Complex Gel (Sci. Tec., Sophia Univ.) ○SOMA, Suzuka; TORII, Yasuko; SUZUKI, Takahito; FUJIWARA, Shoji; HASHIMOTO, Takeshi; HAYASHITA, Takashi

Saturday, March 18, AM

Micro/nano chemistry

Chair: FUKUYAMA, Mao (11 : 10~11 : 50)

- * 11:00-11:10: interval for laptop PC connection.(3A1-14, 3A1-15, 3A1-16, 3A1-17)
- 3A1-14** Development of piezo-driven switching valve system on extended-nano channel for fL fluid control (Grad. Sch. Eng., The Univ. of Tokyo) ○TAKAHASHI, Hitomi; PIHOSH, Yuri; KAZOE, Yutaka; MORIKAWA, Kyojiro; MAWATARI, Kazuma; KITAMORI, Takehiko
- 3A1-15** Structural analysis of water in extended-nano space (Grad. Sch. Eng., The Univ. of Tokyo) ○KOREEDA, Hiroki; KOREEDA, Hiroki; OHARA, Koji; KOHARA, Shinji; YAMAGUCHI, Toshio; YOSHIDA, Koji; KITAMORI, Takehiko
- 3A1-16** Investigation of phase separation multi-phase flow with fluoro/hydrocarbon organic mixed solvent system and its application to separation technology. (Fac. Sci. Eng., Doshisha Univ.) ○MORI, Ryuki; SANADA, Nobuyuki; OGAWA, Kazuhiko; WADA, Susumu; TSUKAGOSHI, Kazuhiko
- 3A1-17** On site derivatization of steroid by scanning probe electrospray ionization (Grad. Sch. Sci., Osaka Univ.) ○OTSUKA, Yoichi; KOBAYASHI, Kazui; KOHIGASHI, Tsuyoshi; ARAKAWA, Ruyichi; MATSUMOTO, Takuya

Saturday, March 18, PM

Chair: HIBARA, Akihiko (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(3A1-29, 3A1-31, 3A1-33)
- 3A1-29**** Generation of two dimensional droplet arrays including dual sample concentration gradients (Grad. Sch. Sci. Tech., Keio Univ.) ○YASUGA, Hiroki; MIKI, Norihisa
- 3A1-31*** Development of quadruplex electrode integrated pore device For Single-Particle Detection (ISIR, Osaka Univ.) ○OHSHIRO, Takahito; HAYASHIDA, Tomoki; TANIGUCHI, Masateru
- 3A1-33*** Bacteria detection based on the shape of ionic current signal (Grad. Sch. Eng., Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.) ○YASAKI, Hiroto; YASUI, Takao; YANAGIDA, Takeshi; KAJI, Noritada; KANAI, Masaki; FUKUYAMA, Mao; NAGASHIMA, Kazuki; KAWAI, Tomoji; BABA, Yoshinobu

Chair: MAWATARI, Kazuma (14 : 50~15 : 40)

- * 14:40-14:50: interval for laptop PC connection.(3A1-36, 3A1-38, 3A1-39, 3A1-40)
- 3A1-36**** Solid-Phase Extraction of Organic Molecules based on Plasmonic Optical Trapping of Poly(*N,N*-Diethylacrylamide) (Grad. Sch. Sci., Osaka City Univ.) ○SHOJI, Tatsuya; SUGO, Daiki; WAKISAKA, Yumi; MURAKOSHI, Kei; TSUBOI, Yasuyuki
- 3A1-38** Raman Microspectroscopic study on a Polymer-rich Domain of Poly (*N*-isopropylacrylamide) Formed by Optical Tweezers : Stereoregularity effect on Polymer Concentration in the Domain (Grad. Sch. Sci., Osaka City Univ.) ○USHIRO, Kenta; SHOJI, Tatsuya; MATSUMOTO, Mitsuhiro; ASOH, Taka-aki; NISHIYAMA, Takashi; HORIBE, Hideo; TSUBOI, Yasuyuki
- 3A1-39** Optical diffraction method utilizing the structure of alternative comb electrodes (Grad. Sch. Sci., Eng., Tokyo Tech.) ○FURUKAWA, Kotohiro; HIBARA, Akihiko
- 3A1-40** Time-resolved analysis of capillary wave resonance at liquid interface (Grad. Sch. Sci., Eng., Tokyo Tech.) ○ISHIKAWA, Kyohei; HIBARA, Akihiko

Chair: MINAMI, Tsuyoshi (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(3A1-42, 3A1-44, 3A1-46)
- 3A1-42**** Text-Displayed Paper-Based Analytical Device for Urine Analysis (Grad. Sch. Sci. Tech., Keio Univ.) ○YAMADA, Kentaro; SUZUKI, Koji; CITTERIO, Daniel
- 3A1-44**** Nanoscale analysis of cell-cell adhesion by a combination of super-resolution fluorescence imaging and microfluidics (King Abdullah University of Science and Technology (KAUST)) ABU-ZINEH, Karmen; AL ALWAN,

Bader; MERZABAN, Jasmeen; OHABUCHI, Satoshi

- 3A1-46** Development of ELISA Utilizing Extended-nano Fluidic Device : Investigation of Detection Efficiency (Grad. Sch. Eng., The Univ. of Tokyo) OOTA, Ryoichi; MAWATARI, Kazuma; MORIKAWA, Kyojiro; KITAMORI, Takehiko

Chair: TOYOTA, Taro (16 : 50~17 : 40)

* 16:40-16:50: interval for laptop PC connection.(3A1-48, 3A1-49, 3A1-50, 3A1-51, 3A1-52)

- 3A1-48** Microfluidic-based in situ Padlock/RCA for mRNA detection (Fac. of Sci., JWU) OKASE, Chikako; NISHIHARA, Hiroshi; SATO, Kae

- 3A1-49** BLOOD CELL GENERATION SYSTEM IN A MICROFLUIDIC DEVICE (Fac. of Sci., JWU) OKAMATA, Eriko; YANAGISAWA, Kanako; KITAJIMA, Kenji; HARA, Takahiko; SATO, Kae

- 3A1-50** Quantification of electron transport property of polymers at the nanoscale toward their application to electronic nanodevices (Sch. Sci., Tokyo Tech.) OMURAKAMI, Ryo; NISHINO, Tomoaki

- 3A1-51** Particulate matter collection using superhydrophilic nanowires surface (Grad. Sch. Eng., Nagoya Univ.) OSHIMADA, Taisuke; YASUI, Takao; HIBARA, Akihide; YANAGIDA, Takeshi; HARA, Mitsuo; KAJI, Noritada; KANAI, Masaki; NAGASHIMA, Kazuki; KAWAI, Tomoji; BABA, Yoshinobu

- 3A1-52** Logistics for ultra small analytical samples by micro ice droplet shooter (The Univ. of Tokyo) OTANAKA, Tatsuya; KAZOE, Yutaka; MAWATARI, Kazuma; KITAMORI, Takehiko

Room A2

Fourth Building, Section A J414

Polymer

Thursday, March 16, AM

Chair: SOGAWA, Hiromitsu (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(1A2-07, 1A2-09, 1A2-10, 1A2-12)

- 1A2-07**** Reactivity of mechchromophore in organic-inorganic composites (Sch. Mater. & Chem. Tech., Tokyo Tech.) OKOSUGE, Takahiro; IMATO, Keiichi; GOSEKI, Raita; OTSUKA, Hideyuki

- 1A2-09** Effect of Crystallinity on Mechanochromic Property of Crystalline Polymers with Diarylbenzofuranone (Grad. Sch. Sci., Eng., Tokyo Tech.) OFURUKAWA, Shigeki; GOSEKI, Raita; OTSUKA, Hideyuki

- 1A2-10**** Dynamic Covalent Polymers Based on Thermally Dissociable Hindered Aminodisulfides (Grad. Sch. Sci., Eng., Tokyo Tech.) OTAKAHASHI, Akira; GOSEKI, Raita; OTSUKA, Hideyuki

- 1A2-12** Molecular structure of poly vinyl alcohol (PVA) derived radicals studied by rapid-flow ESR measurements (KIT) O MATSUI, Kazuma; NISHIHARA, Yuko; MIYAKE, Yusuke; KANAORI, Kenji; TAJIMA, Kunihiko

Chair: GOSEKI, Raita (11 : 10~12 : 00)

* 11:00-11:10: interval for laptop PC connection.(1A2-14, 1A2-15, 1A2-16, 1A2-17)

- 1A2-14** Synthesis of Non-Natural Polypeptide Bearing Various Side Chain via Asymmetric Polymerization and Post-Polymerization Conversion (Grad. Sch. Sci., Osaka Univ.) OISHIDO, Yuki; KANBAYASHI, Naoya; OKAMURA, Taka-aki; ONITSUKA, Kiyotaka

- 1A2-15** CO₂-Responsive Diamine Polymer Coatings and their Surface Property (Sch. Advanced Sci. Eng., Waseda Univ.) OSAHASHI, Yusuke; KOBAYASHI, Matsutaro; SUGA, Takeo; NISHIDE, Hiroyuki

- 1A2-16** Oxidatively degradable transparent crosslinked polymer (Grad. Sch. Fac. Sci., Kanagawa Univ.) OYANAZE, Kazuya; KIHARA, Nobuhiro

- 1A2-17**** Stabilization of Recombinant Spider Silk against Thermo-oxidative Degradation (Sch. Mat. Sci., JAIST) ODAO, Anh Thi Ngoc; NAKAYAMA, Koyuru; SHIMOKATA, Jun'ichi; TAKEUCHI, Kengo; TANIKE, Toshiaki

Thursday, March 16, PM

Chair: KANBAYASHI, Naoya (13 : 20~14 : 20)

* 13:10-13:20: interval for laptop PC connection.(1A2-27, 1A2-29, 1A2-31, 1A2-32)

- 1A2-27**** Synthesis of Polymer Nitrite *N*-Oxides Directed to Fabrication of Sophisticated Polymer Architecture (Sch. Mater. & Chem. Tech., Tokyo Tech.) OTSUTSUBA, Toyokazu; SOGAWA, Hiromitsu; TAKATA, Toshikazu

- 1A2-29**** Synthesis of nitrile *N*-oxide-based orthogonal reagent and their application to catalyst-free polymer linking (Sch. Mater. & Chem. Tech., Tokyo Tech.) OSOGAWA, Hiromitsu; CHEACHAN, Sumitra; TAKATA, Toshikazu

- 1A2-31** Synthesis and properties of fluorene-thiophene block copolymers

having phosphonium group (I)-Recognition of biomolecules- (Grad. Sch. of Sci. Technol., Sophia Univ.) OSATO, Tsubasa; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro

- 1A2-32** Synthesis of ABC Triblock Copolymers Ionomers by Catalyst Transfer Polycondensation -Study on Synthetic Route- (Sci. Tec., Sophia Univ.) OSUZUKI, Yuka; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro

Chair: NAKA, Kensuke (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(1A2-34, 1A2-37, 1A2-38, 1A2-39)

- 1A2-34* CSJ Award for Outstanding Young Women Chemists** Precise Synthesis of Reactive Polymers and Their Application to Interfacial Functional Materials (Grad. Sch. Eng., Osaka City Univ.) OSATO, Eriko

- 1A2-37** Soft-segmented, Photo-active Polymeric Dormant : Controlled Photocuring and Unique Micro-phase Separation. (Sch. Advanced Sci. Eng., Waseda Univ.) OTAKATA, Kaname; ANDO, Eigo; SUGA, Takeo; NISHIDE, Hiroyuki

- 1A2-38** Synthesis of Aggregation-induced Emission-active Star-shaped Polymers by Living Coordination Polymerization of Allene Derivatives and Their Chemosensor Applications (Sch. Mater. & Chem. Tech., Tokyo Tech.) O MATSUI, Tamaki; OUCHI, Yoshiyuki; WAKIYA, Takeshi; IWAMOTO, Tadashi; NISHIYAMA, Hiroki; INAGI, Shinsuke; TOMITA, Ikuyoshi

- 1A2-39** Synthesis and applications of block copolymers by coordination polymerization of allene derivatives possessing mesogenic substituents (Sch. Mater. & Chem. Tech., Tokyo Tech.) OSAKAI, Koyuki; HIBI, Yuusuke; IYODA, Tomokazu; NISHIYAMA, Hiroki; INAGI, Shinsuke; TOMITA, Ikuyoshi

Chair: NISHIYAMA, Hiroki (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(1A2-41, 1A2-42, 1A2-43, 1A2-44, 1A2-45, 1A2-46)

- 1A2-41** Novel Conjugated Polymers connected with Isoindigo Units (Fac. Textile Sci. Technol., Shinshu Univ.) OKURIBAYASHI, Kengo; KIMURA, Mutsumi; KOBAYASHI, Nagao

- 1A2-42*** Synthesis and Properties of Solid-State Emissive Boron Diiminate Homopolymers (Grad. Sch. Eng., Kyoto Univ.) OFUKUYAMA, Misuzu; ITO, Shunichiro; TANAKA, Kazuo; CHUJO, Yoshiaki

- 1A2-43** Synthesis of amphiphilic incompletely-condensed polyhedral oligomeric silsesquioxane derivatives (KIT) OKATOH, Ryoichi; IMOTO, Hiroaki; NAKA, Kensuke

- 1A2-44** Synthesis of oligosiloxane copolymers by hydrosilylation polymerization of bisvinylhexaisobutyl-substituted caged silsesquioxane monomer. (KIT) OFUJII, Syunichi; IMOTO, Hiroaki; NAKA, Kensuke

- 1A2-45** Development of highly efficient method of completely decorated caged octasilsesquioxane by utilizing imine bond formation (KIT) OWADA, Satoshi; IMOTO, Hiroaki; NAKA, Kensuke

- 1A2-46*** Morphological control of Polymer Nanoparticles through MOF-templating (Grad. Sch. Eng., Kyoto Univ.) OLEGRAND, Alexandre; UEMURA, Takashi; KITAGAWA, Susumu

Chair: IMOTO, Hiroaki (16 : 50~17 : 40)

* 16:40-16:50: interval for laptop PC connection.(1A2-48, 1A2-49, 1A2-50, 1A2-52)

- 1A2-48** Synthesis of Graft polymer by Host-Guest Complexation of self-assembled Capsule possessing polystyrene side chains (Grad. Sch. Sci., Hiroshima Univ.) OTAKATSUKA, Mei; TSUNODA, Yuta; HAINO, Takeharu

- 1A2-49** Synthesis and property of macromolecular [2]rotaxane bearing Pd-containing macrocycles. (Sch. Mater. & Chem. Tech., Tokyo Tech.) OHIROI, Miya; AOKI, Daisuke; SOGAWA, Hiromitsu; TAKATA, Toshikazu

- 1A2-50**** Property change of rotaxane-linked polymers by Star/linear topology transformation (Sch. Mater. & Chem. Tech., Tokyo Tech.) OAOKI, Daisuke; TAKATA, Toshikazu

- 1A2-52** synthesis of cyclic polymer through topology transformation of macromoleculer [2]rotaxane dimer (Sch. Mater. & Chem. Tech., Tokyo Tech.) OAIBARA, Gouta; TSUKAMOTO, Tadashi; AOKI, Daisuke; TAKATA, Toshikazu

Friday, March 17, AM

Chair: AJIRO, Hiroharu (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2A2-01, 2A2-02, 2A2-04, 2A2-06)

- 2A2-01** Synthesis of bio-based poly(Schiff-base) from biobased bifurfulal (Grad. Sch. Sci. Tech., Gumma Univ.) OHAYASHI, Senri; TACHIBANA, Yuya; KASUYA, Ken-ichi

- 2A2-02*** Synthesis and properties of sequence-controlled copolymers consisting of dicarboxylic acid, diol, and hydroxycarboxylic acid (Grad. Sch. Eng., Hiroshima Univ.) ONAKAYAMA, Yuushou; YAGUMO, Wataru; TANAKA, Ryo; SHIONO, Takeshi

- 2A2-04*** Polymer Synthesis Utilizing Time-Differential Double Nucleophilic

Attacks onto α -(Halomethyl)acrylates (Fac. Textile Sci. Technol., Shinshu Univ.) ○KOHSAKA, Yasuhiro; HAGIWARA, Keito; MIYAZAKI, Takumi; ITO, Keiichiro

2A2-06 Diels-Alder polymerization using azodicarbonyl compound as the dienophile (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○SAKURAI, Masayoshi; KIHARA, Nobuhiro

Chair: SHIONO, Takeshi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2A2-08, 2A2-09, 2A2-10, 2A2-11, 2A2-13)

2A2-08 Development of oxidatively degradable epoxy resin cured by diamine bearing diacylhydrazine. (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○YAU, Ga Joon; KIHARA, Nobuhiro

2A2-09 Synthesis and Properties of Methyl Substituted Poly(phenylene sulfide) by Oxidative Polymerization of Disulfide (Sch. Advanced Sci. Eng., Waseda Univ.) ○SAITO, Seiya; TANAKA, Yoko; YAMAZAKI, Tomoya; OYAZU, Kenichi; NISHIDE, Hiroyuki

2A2-10 Mixed-Ligand Approach to Highly Selective Direct Arylation Polymerization: Synthesis of Donor-Acceptor Polymers Containing 1,2-Dithienylene Units (ICR, Kyoto Univ.) ○YAMASHITA, Natsumi; WAKIOKA, Masayuki; OZAWA, Fumiyouki

2A2-11* Pd-catalyzed Polycondensation of Benzoyl Chloride, 8-Aminoquinoline, and Aromatic Dihalides Through C-H Functionalization Process (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○YAMASHITA, Akira; NISHIYAMA, Hiroki; INAGI, Shinsuke; TOMITA, Ikuyoshi

2A2-13 Synthesis of organometallic catalyst and polymerization of Norbornene derivative. (Sch. Env. Sci. Eng., KUT) ○ICHIKAWA, Tatsuya; SUGIMOTO, Ryuichi

Chair: TACHIBANA, Yuya (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2A2-15, 2A2-19, 2A2-20)

2A2-15 CSJ Award for Technical Development Establishment of Manufacturing Technology for Polyglycolic Acid and Development of New Market as High-Functional and Environment-Friendly Material (KUREHA CORP.) ○SATO, Hiroyuki; SUZUKI, Yoshinori; MAEDA, Fumio; KOBAYASHI, Fuminori; SAIGUSA, Nanako

2A2-19 Synthesis and properties of novel UV-curable resin using isosorbide. (Coll. Sci. Eng., Kanto Gakuin Univ.) ○OSUGI, Mioka; KOUZAI, Hiroaki

2A2-20 Photodegradation of polyisoprene rubber in solution with xenon light (Coll. Sci. Eng., Kanto Gakuin Univ.) ○YAMAMOTO, Keisuke; KOUZAI, Hiroaki

Friday, March 17, PM

Chair: TOMITA, Ikuyoshi (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2A2-28, 2A2-29, 2A2-31, 2A2-32, 2A2-33)

2A2-28 Synthesis and Characterizations of Phnolic Resin Based on Tetraphenylethene (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○KAKUTA, Takahiro; HAKOISHI, Yusaku; YAMAGISHI, Tada-aki; OGOSHI, Tomoki

2A2-29** Modeling of SiO₂-supported single-site olefin polymerization catalyst: evaluation of the supporting effect in the homogeneous system (Grad. Sch. Eng., Hiroshima Univ.) ○TANAKA, Ryo; TONOKO, Naoki; KAWAHARA, Tomoyasu; NAKAYAMA, Yuushou; SHIONO, Takeshi

2A2-31 *cis*-1,4-selective Polymerization of Isoprene Using New Simple Catalyst Systems Based on Rare-Earth-Metal Chlorides (Advanced Course, NITOC) ○MATSUMOTO, Kyosuke; OHTA, Shun; TODA, Tomoyuki; NISHII, Kei

2A2-32* Control of Thermosensitive Properties by Copolymerization of Trimethylene Carbonate Derivatives Bearing Oligo ethylene Glycol and Coumarin Units (Grad. Sch. Mat. Sci., NAIST) ○CHANTHASET, Nalinthip; KAN, Kai; AKASHI, Mitsuru; AJIRO, Hiroharu

2A2-33 Structure of Sequence-Controlled Supramolecular Linear ABC Terpolymer Based on Three Distinct Host-Guest Pairs (Grad. Sch. Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) ○KUDO, Hiroaki; HIRAO, Takehiro; AMIMOTO, Tomoko; HAINO, Takeharu

Saturday, March 18, AM

Chair: NAKAMURA, Yasuyuki (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3A2-01, 3A2-02, 3A2-03, 3A2-04, 3A2-06)

3A2-01 Synthesis and characterization of polyitaconic acid (Grad Sch. Eng., KUT) ○ABE, Takamasa; SUGIMOTO, Ryuichi

3A2-02* Polymerization of styrene with organo-boron compounds (Sch. Env. Sci. Eng., KUT) ○NARUOKA, Yusuke; SUGIMOTO, Ryuichi

3A2-03 Graft polymerization onto Polyolefin (Grad Sch. Eng., KUT) ○MATSUKUMA, Hirotosugu; SUGIMOTO, Ryuichi

3A2-04** Dynamic control of polylactide nanostructure bearing aldehyde at the chain end (Inst. Res. Initi., NAIST; Grad. Sch. Mat. Sci., NAIST) ○KAN, Kai; AKASHI, Mitsuru; AJIRO, Hiroharu

3A2-06 Synthesis and Characterization of chiral polyoxazolines (Grad. Sch. Eng., Kanagawa Univ.) ○UMEBARA, Yuma; OKAMOTO, Sentaro; JIN,

Ren-hua

Chair: KIHARA, Nobuhiro (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3A2-08, 3A2-09, 3A2-11, 3A2-12, 3A2-13)

3A2-08 Ring-Opening Polymerization of Cyclopropanes Catalyzed by Lewis Acids (Grad Sch. Eng., Nagoya Inst. of Tech.) ○MATSUOKA, Shin-ichi; HAYAKAWA, Kosuke; SUZUKI, Masato

3A2-09** Controlled radical polymerization using kagome-type porous metal complex (Kyoto Univ.) ○MOCHIZUKI, Shuto; HATA, Shunsuke; UEMURA, Takashi; KITAGAWA, Susumu

3A2-11 Grafting Reaction using Iodine of Fluorocarbon-Hydrocarbon Alternate Copolymer (Grad. Sch. Of Humanities and Sci., Ochanomizu Univ.) ○NAKAMURA, Saki; YAJIMA, Tomoko; KANBARA, Tadashi

3A2-12* The catalytic oxidative polymerization of 3-hexylthiophene by way of the oxidize Fe²⁺ to Fe³⁺ (Sch. Env. Sci. Eng., KUT) ○THIEN AN, Phung Hai; RYUICHI, Sugimoto

3A2-13 Withdrawn

Chair: IHARA, Eiji (11 : 20~11 : 50)

* 11:10-11:20: interval for laptop PC connection.(3A2-15)

3A2-15 Young Scholar Lectures of CSJ New developments in the mechanism and the control of termination reaction in radical polymerization by precision radical reactions (ICR, Kyoto Univ.) ○NAKAMURA, Yasuyuki

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Saturday, March 18, PM

Chair: Satoh, Kotaro (13 : 00~13 : 40)

3A2-25* Invited Lecture New Synthetic Approach for Optically Active Polymer via Asymmetric Polymerization (Osaka Univ.) ○Kanbayashi, Naoya (13:00~13:20)

3A2-27* Invited Lecture Preparation of Multi-functional Hydrogels and Thin Films Using Poly(trimethylene carbonate) Bearing Oligoethylene Glycol Units (NAIST) ○Ajiro, Hiroharu (13:20~13:40)

Chair: Kadokawa, Junichi (13 : 40~14 : 30)

3A2-29* Invited Lecture Bio-based Wrinkled Surfaces Harvested from Biological Design Principle of Wood (Tottori Univ.) ○Izawa, Hironori (13:40~14:00)

3A2-31* Keynote Lecture Isolation and Functionalization of Nanocellulose from Lignocellulosic Fibres for Environmental Remediation and Sensor Applications (Universiti Kebangsaan Malaysia) ○Chin-Hua, CHIA (14:00~14:30)

Chair: Serizawa, Takeshi (14 : 40~15 : 50)

3A2-35* Invited Lecture New Insights into Spider Dragline Spinning (RIKEN) ○Numata, Keiji (14:40~15:00)

3A2-37* Invited Lecture Role of Helicity of Metallosupramolecular Polymers on DNA Binding and Cytotoxicity (NIMS) ○Rana, Utpal (15:00~15:20)

3A2-39* Keynote Lecture Keratin/chitosan UV-crosslinked Composite Induced Human Adipose Derived Stem Cells (hASCs) toward Osteogenesis (National Taiwan Univ.) ○Jiashing, Yu (15:20~15:50)

Chair: Higuchi, Masayoshi (16 : 00~16 : 40)

3A2-43* Invited Lecture Development of Amphiphilic Incompletely Condensed Polyhedral Oligomeric Silsesquioxane Materials (KIT) ○Imoto, Hiroaki (16:00~16:20)

3A2-45* Invited Lecture Controlled Radical Polymerization in Photocuring toward Unique Graded Nanostructures (Waseda Univ.) ○Suga, Takeo (16:20~16:40)

Chair: Oyaizu, Kenichi (16 : 40~17 : 30)

3A2-47* Invited Lecture Salt-responsive Hydration State and Interaction of Zwitterionic Sulfobetaine-based Polymer Brushes (Kyushu Univ.) ○Higaki, Yuji (16:40~17:00)

3A2-49* Keynote Lecture Genetically Encoded Protein Chemistry: From Chemical Toolbox to Bioactive Materials (Peking Univ.) ○Wen-Bin, Zhang (17:00~17:30)

Polymer

Sunday, March 19, AM

Chair: SHISHIDO, Atsushi (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4A2-01, 4A2-02, 4A2-03, 4A2-05, 4A2-06)

4A2-01 Fragment Molecular Orbital-based Parameterization for Dissipative Particle Dynamics Simulations (Grad. Sch. Sci., Rikkyo Univ.) ○OKUWAKI, Koji; SYUTARO, Kawada; MOCHIZUKI, Yuji; OZAWA, Taku; DOI, Hideo; YASUOKA, Kenji

- 4A2-02** Dissipative Particle Dynamics Simulations of Lipid Membrane with Non-Empirical Parameter Based on Fragment Molecular Orbital Method (Coll. Sci., Rikkyo Univ.) ODOI, Hideo; OKUWAKI, Koji; MOCHIZUKI, Yuji; OZAWA, Taku; YASUOKA, Kenji
- 4A2-03**** Conformation of PEGDME molecules in sPS co-crystals by simultaneous SANS/FTIR (Osaka Univ.) KANEKO, Fumitoshi; SETO, Naoki; SATO, Shuma; UTE, Koichi; SCHIAVONE, Maria Maddalena; ALLGAIER, Juergen; RADULESCU, Aurel
- 4A2-05** Study of relationship between the water uptake and organized structure in sulfonated polyimide thin film (Sch. Mat. Sci., JAIST) OONO, Yutaro; GOTO, Ryouusuke; HARA, Mitsuo; NAGANO, Shusaku; ABE, Takashi; NAGAO, Yuki
- 4A2-06** PEGylation amphiphilicity polymer of orientation behavior by humidly annealing (Grad. Sch. Sci., Eng., Yamagata Univ.) MATSUNAGA, Kohei; YAMAMOTO, Shunsuke; MITSUISHI, Masaya; MATSUI, Jun

Chair: SADA, Kazuki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4A2-08, 4A2-09, 4A2-11, 4A2-12, 4A2-13)
- 4A2-08** Study of polypropylene crystal structure for biaxially oriented polypropylene film (2) (Toray Industries, Inc.; ICR, Kyoto Univ.) OKADA, Kazuma; OHKURA, Masatoshi; NISHIDA, Koji
- 4A2-09**** Effect of Mechanical Shearing on Molecular Alignment Behavior of Masked Photopolymerization (Lab. Chem. Life Sci., Tokyo Tech.) OISHIZU, Masaki; HISANO, Kyohei; SHISHIDO, Atsushi
- 4A2-11** Syntheses of co-polyamides with high mechanical strengths from 4-aminocinnamic acid (Sch. Mat. Sci., JAIST) YOSHINAKA, Yohei; TATEYAMA, Seiji; KANEKO, Tatsuo
- 4A2-12** Efficient Accumulation of Early 4d/5d-Metal Using Phenylazomethine Dendrimer as a Molecular Template (JST-ERATO; Lab. Chem. Life Sci., Tokyo Tech.) WAKIZAKA, Masanori; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 4A2-13** Theoretical design of novel dendrimers with advanced precise metal accumulation functions (Lab. Chem. Life Sci., Tokyo Tech.) YASUI, Naoki; IMAOKA, Takane; HARUTA, Naoki; KUZUME, Akiyoshi; YAMAMOTO, Kimihisa

Chair: KANEKO, Tatsuo (11 : 20~11 : 50)

- * 11:10-11:20: interval for laptop PC connection.(4A2-15, 4A2-16, 4A2-17)
- 4A2-15** Synthesis of dendrimer supramolecular polymer with a bent shape linker (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) MIYATA, Narumi; ALBRECHT, Ken; TOBARI, Yuta; MENDORI, Shin; YAMAMOTO, Kimihisa
- 4A2-16** Thermoresponsive behavior of polymer solution in various solvents by use of charge-transfer interaction (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) UENISHI, Kyohei; KOKADO, Kenta; SADA, Kazuki
- 4A2-17** Biodegradability evaluation of aliphatic polyesters composed of long-chain-alkanedioic acids and 1,4-butanediol (Sch. Sci. Tech., Gunma Univ.) KAGEYAMA, Kohei; BABA, Takuro; SUDA, Shota; TACHIBANA, Yuya; KASUYA, Ken-ichi

Room A3

Fourth Building, Section A J415

Polymer

Thursday, March 16, AM

Chair: UBE, Toru (10 : 00~11 : 00)

- * 9:50-10:00: interval for laptop PC connection.(1A3-07, 1A3-08, 1A3-09, 1A3-11)
- 1A3-07** Chiral Amplification Using Helical Polymer Ligands: a New Chiral Amplification System Based on the Introduction of Reaction Products to Side Chains (Grad. Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; MIYATA, Fumiko; SUGINOME, Michinori
- 1A3-08** Chirality Switching of Helical Polymer Ligand Based on an Enhanced Solvent Dependence on the Screw-sense Induction of Polyquinoxaline Bearing (S)-4-Octyloxymethyl Side Chains (Grad. Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; KAKIHARA, Yusuke; NISHIKAWA, Tsuyoshi; SUGINOME, Michinori
- 1A3-09**** Asymmetric Catalysis through Chirality Transfer from Chiral Solvent Using Achiral Helical Macromolecule as a Catalyst (Kyoto Univ.) NAGATA, Yuuya; TAKEDA, Ryohei; SUGINOME, Michinori
- 1A3-11**** Synthesis of Vinyl Polymer-Based Rotaxane Cross-Linked Polymers Using Cyclodextrin-tethering Supramolecular Cross-Linkers (Sch. Mater. & Chem. Tech., Tokyo Tech.) IJIMA, Keisuke; AOKI, Daisuke; TAKATA, Toshikazu

Chair: KOKADO, Kenta (11 : 10~12 : 10)

- * 11:00-11:10: interval for laptop PC connection.(1A3-14, 1A3-16, 1A3-17,

- 1A3-18, 1A3-19)
- 1A3-14**** Structure effect of [2]rotaxane cross-linker on property of rotaxane cross-linked polymer (Sch. Mater. & Chem. Tech., Tokyo Tech.) SAWADA, Jun; AOKI, Daisuke; TAKATA, Toshikazu
- 1A3-16** Synthesis of nitrile *N*-oxide moiety-containing rotaxane reagents and their application to catalyst-free cross-linking reaction (Sch. Mater. & Chem. Tech., Tokyo Tech.) OTANI, Misako; SAWADA, Jun; SOGAWA, Hiromitsu; TAKATA, Toshikazu
- 1A3-17** Preparation of photoresponsive supramolecular gel actuators generated by sliding motion of ring molecules. (Grad. Sch. Sci., Osaka Univ.) IKEJIRI, Shinji; TAKASHIMA, Yoshinori; HARADA, Akira; YAMAGUCHI, Hiroyasu
- 1A3-18** Photo-responsive gel actuator topologically cross-linked by rotaxane (Grad. Sch. Sci., Osaka Univ.) HAYASHI, Yuki; TAKASHIMA, Yoshinori; HARADA, Akira; YAMAGUCHI, Hiroyasu
- 1A3-19** Evaluation of physical and adhesion properties of supramolecular materials cross-linked by metal-ligand and host-guest complexes. (Grad. Sch. Sci., Osaka Univ.) GOTO, Fumiaki; TAKASHIMA, Yoshinori; HARADA, Akira; YAMAGUCHI, Hiroyasu

Thursday, March 16, PM

Chair: IHARA, Eiji (13 : 20~14 : 20)

- * 13:10-13:20: interval for laptop PC connection.(1A3-27, 1A3-30, 1A3-31, 1A3-32)
- 1A3-27* CSJ Award for Young Chemists** Development of Innovative Chiral Materials Based on Solvent-Dependent Helix Inversion of Macromolecular Backbone (Grad. Sch. Eng., Kyoto Univ.) ONAGATA, Yuuya
- 1A3-30** Solvent vapor dependence on the formation of a superstructure exhibiting circularly polarized selective reflection of a helical polyquinoxaline thin film (Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; KONDO, Hiroki; SUGINOME, Michinori
- 1A3-31** Control of Nano Structures of Liquid-Crystalline Block Copolymers with Side-Chain Oligothiophenes (Grad. Sch. Sci. Eng., Chuo Univ.; Research and Development Initiative, Chuo Univ.) YANAHASHI, Naoto; UBE, Toru; IKEDA, Tomiki
- 1A3-32** Photoalignment of Crosslinked Liquid-Crystalline Polymers with Dynamic Covalent Bonds (Fac. Sci. Eng., Chuo Univ.) TSUNODA, Haruna; KAWASAKI, Kyohei; UBE, Toru; IKEDA, Tomiki
- Chair: SAKAMOTO, Ryota (14 : 30~15 : 30)
- * 14:20-14:30: interval for laptop PC connection.(1A3-34, 1A3-35, 1A3-36, 1A3-38, 1A3-39)
- 1A3-34** Photomobile Materials Composed of Crosslinked Azotolane Liquid-crystalline Polymers and Stilbene Derivatives Driven by Two-photon Processes (Grad. Sch. Sci. Eng., Chuo Univ.) SASAKI, Shota; UBE, Toru; KATAYAMA, Kenji; MURAMATSU, Masayasu; MIYASAKA, Hiroshi; IKEDA, Tomiki
- 1A3-35** Preparation and Photoresponsive Behavior of Photomobile Materials with Crosslinked Azobenzene Liquid-Crystalline Polymer/Crosslinked Polysiloxane Composites (Fac. Sci. Eng., Chuo Univ.) MINAGAWA, Ken; UBE, Toru; IKEDA, Tomiki
- 1A3-36**** Poly(quinoxaline-2,3-diyl) as a Modular Platform for Circularly Polarized Luminescent Materials: Color Tuning, Energy Transfer, and Switching of the CPL Handedness (Grad. Sch. Eng., Kyoto Univ.) NISHIKAWA, Tsuyoshi; NAGATA, Yuuya; SUGINOME, Michinori
- 1A3-38** Solubility Control of a Polymer Having Ureido Groups Induced by Photoisomerization of a Spiropyran Derivative (Fac. Sci., Hokkaido Univ.) KOKADO, Kenta; YAMADA, Taihei; KAWAMURA, Mikuru; SADA, Kazuki
- 1A3-39** Synthesis and Characteristics of Emissive Polymers Including Fused Boron Ketoimines (Sch. Eng., Kyoto Univ.) UEMURA, Kyoya; SUENAGA, Kazumasa; TANAKA, Kazuo; CHUJO, Yoshiaki

Chair: NISHIMURA, Tatsuya (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(1A3-41, 1A3-42, 1A3-43, 1A3-44, 1A3-45, 1A3-46)
- 1A3-41** Photocatalytic Hydrogen Evolution on the Polythiophene Prepared by Iodine Vapor-Assisted Polymerization (Sch. Advanced Sci. Eng., Waseda Univ.) TANAKA, Tomoki; TSUJIMURA, Ori; WINTHER-JENSEN, Bjorn; OYAIZU, Kenichi; NISHIDE, Hiroyuki
- 1A3-42** Synthesis of catalyst supported stimuli-responsive polymer and catalytic activity control (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) KUROSHIMA, Yoshiki; NAYA, Masami; KOKADO, Kenta; SADA, Kazuki
- 1A3-43** Development of heterogeneous 1,10-bridged flavinium catalysts immobilized on anionic chitin derivatives through ionic interaction (Fac. Sci. Eng., Shimane Univ.) SAKAI, Takuya; KUMOI, Takuma; WATANABE, Mirai; ARAKAWA, Yukihiko; IMADA, Yasushi; IIDA, Hiroki
- 1A3-44** Synthesis of noncovalently chitin-immobilized chiral organocatalysts and their application in asymmetric Diels-Alder reaction (Grad. Sch. Fac. Sci. Eng., Shimane Univ.) WATANABE, Mirai; IIDA, Hiroki
- 1A3-45** Oxygen Scavenging Characteristics of Iron Complex Immobilized

Polynorbornene Films (Sch. Advanced Sci. Eng., Waseda Univ.)
 ○HASEGAWA, Yui; SHODA, Motoharu; OYAIZU, Kenichi; NISHIDE, Hiroyuki

1A3-46[#] Fabrication and application of porphyrin contained ultra-thin films via “click chemistry” (Fac. Sci., The Univ. of Tokyo) ○SHIOTSUKI, Ryo; NAKAJIMA, Ukyo; SAKAMOTO, Ryota; NISHIHARA, Hiroshi

Chair: IIDA, Hiroki (16 : 50~17 : 50)

* 16:40-16:50: interval for laptop PC connection.(1A3-48, 1A3-49, 1A3-51, 1A3-52, 1A3-53)

1A3-48 Molecular-sieving Property of Chemical Vapor deposited Parylene Nanoporous Films (Fac. Textile Sci. Technol., Shinshu Univ.) ○SHII, Takeshi; KIMURA, Mutsumi

1A3-49[#] Development of Chiral Stationary Phases Based on Helicity Control of Poly(biphenylacetylene) Derivatives Bearing Polar Pendant Groups (Grad. Sch. Eng., Nagoya Univ.) ○ISHIDATE, Ryoma; IKAI, Tomoyuki; MAEDA, Katsuhiko; KANO, Shigeyoshi; YASHIMA, Eiji

1A3-51 Evaluation of compatibility between lipophilic polyelectrolyte gels and organic solvents (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○SUNAGA, Soukuro; KOKADO, Kenta; SADA, Kazuki

1A3-52 Development of Organo gel through Host-Guest Interaction of Pillar [n]arene (Coll. Sci. Eng., Kanazawa Univ.) ○TERASAKI, Shoma; KAKUTA, Takahiro; OGOSHI, Tomoki; YAMAGISHI, Tada-aki

1A3-53 Effect of Pretreatments of Polyion Complex Gels on Material Properties of Polysaccharide Composite Films (Fac. Eng., TUS; Grad. Sch. Chem. Sci. Technol., TUS) ○ICHIKAWA, Mayuko; NIKAI, Yuichi; IJIMA, Kazutoshi; HASHIZUME, Mineo

Friday, March 17, AM

Chair: HIGUCHI, Masayoshi (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2A3-01, 2A3-02, 2A3-03, 2A3-04, 2A3-05)

2A3-01 Enantioselective substrates capturing using the optically active thermoresponsive polymer-grafted activated carbon fiber (Fac. Sci. Eng., Kindai Univ.) ○TAHARA, Kenichiro; ISHIFUNE, Manabu

2A3-02 Investigation of New Cooling Materials Based on Thermoresponsive Polymer of Poly(*N*-Isopropylacrylamide) Combined to Glass Surfaces (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○SASAKI, Aoi; TOSAKA, Aki; HONDA, Hisashi

2A3-03 Hybrid nanoplates from amphiphilic polyhedral oligomeric silsesquioxane (Grad. Sch. Sci., Eng., Yamagata Univ.) ○AKATSUKA, Asami; ZHU, Huie; YAMAMOTO, Shunsuke; MITSUISHI, Masaya; MIYASHITA, Tokuji; MATSUI, Jun

2A3-04 Establishment of Organo-modified Nanodiamond with Heat-resistance Contributing to Formation of Crystalline Transparent Polymer / Nanocarbon Hybrid (Grad. Sch. Sci., Eng., Saitama Univ.; Fac. Eng., Saitama Univ.; Grad. Sch. Sci., Eng., Tokyo Tech.) ○TASAKI, Taira; GUO, Yifei; MENG, Qi; AKASAKA, Shuichi; FUJIMORI, Atsuhiko

2A3-05^{*} Dissimilar Materials Bonding Mediated by Epoxy Monolith Layer (Grad. Sch. Eng., Osaka Pref. Univ.) ○MATSUMOTO, Akikazu; SUGIMOTO, Yuka; NISHIMURA, Yukihiko; UEHARA, Fai

Chair: MATSUMOTO, Akikazu (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2A3-08, 2A3-12)

2A3-08[#] CSJ Award for Technical Development Development of Special Polycarbonate Resins With a High Refractive Index and Low Birefringence (MITSUBISHI GAS CHEMICAL COMPANY, INC.) ○KATO, Noriyuki; NISHIMURA, Yoshio; NAKAJIMA, Masayuki; TSUNODA, Takashi; FUKUSHIMA, Takamasu

2A3-12^{*} Development of thermally tough electrochromic devices using metallo-supramolecular polymer (NIMS) ○SEINO, Yuki; KANAOKA, Miki; HIGUCHI, Masayoshi

Chair: ISHIFUNE, Manabu (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2A3-15, 2A3-16, 2A3-18, 2A3-20)

2A3-15 Antibacterial and hemolytic activities of poly(trimethylene carbonate) derivatives with a cationic side chain (Fac. Eng., Yamagata Univ.) ○TAKAKUWA, Kazuki; KISHI, Kouhei; SAITO, Keita; YOSHIIHARA, Ayano; TANAKA, Masaru; YANO, Shigekazu; FUKUSHIMA, Kazuki

2A3-16[#] Construction of Liquid Crystalline Virus-based Hydrogels for Controlled Release of Antibody Proteins (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SAWADA, Toshiki; YANAGIMACHI, Miyuko; SERIZAWA, Takeshi

2A3-18[#] Size Controlled Nanocaplets Prepared via ‘Template Polymerization’ for Delivery of Macromolecules. (Grad. Sch. Eng., The Univ. of Tokyo) ○P.K, Hashim; OKURO, Kou; AIDA, Takuzo

2A3-20[#] siRNA Nanocaplet for Cancer-Targeting Delivery (Fac. Eng., The Univ. of Tokyo) ○KOHATA, Ai; P.K, Hashim; OKURO, Kou; AIDA, Takuzo

Friday, March 17, PM

Chair: FUKUSHIMA, Kazuki (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2A3-28, 2A3-30, 2A3-31, 2A3-32, 2A3-33)

2A3-28[#] Photoresponsive Molecular Glues for Control of Bimolecular Functions (Grad. Sch. Eng., The Univ. of Tokyo) ○OKURO, Kou; AIDA, Takuzo

2A3-30 Cell Membrane Modifiers for Enhanced Cellular Uptake of Huge Proteins (Fac. Eng., The Univ. of Tokyo) ○OTAKE, Saya; OKURO, Kou; AIDA, Takuzo

2A3-31 Synthesis and molecular recognition by the optically active thermoresponsive polymer incorporating a fluorescence probe site (Grad. Sch. Sci. Eng., Kindai Univ.) ○KIDO, Katsunori; ISHIFUNE, Manabu

2A3-32 Properties of Polyurethane Prepared with Diol Containing Oligo Ethylene Glycol and Effect of the graft structure (Grad. Sch. Mat. Sci., NAIST) ○AOKI, Daisuke; AJIRO, Hiroharu

2A3-33[#] Development of highly sensitive detection system with ¹⁹F NMR probes based on the assembly of a paramagnetic-metal complex and a fluorinated POSS (Grad. Sch. Eng., Kyoto Univ.) ○NARIKIYO, Hayato; KAKUTA, Takahiro; TANAKA, Kazuo; GON, Masayuki; CHUJO, Yoshiaki

Saturday, March 18, AM

Chair: GON, Masayuki (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3A3-01, 3A3-02, 3A3-04, 3A3-05, 3A3-06)

3A3-01 Synthesis of polythiophene with carboxy group for an anode material of lithium-ion battery (Fac. Sci. Tech., Keio Univ.) ○NUMAZAWA, Hiromichi; SATO, Kosuke; OAKI, Yuya; IMAI, Hiroaki

3A3-02^{*} Composites of Redox-Active Organic Crystals and Conductive Polymers for Application to Electrode Material (Fac. Sci. Tech., Keio Univ.) ○SATO, Kosuke; OAKI, Yuya; IMAI, Hiroaki

3A3-04 Synthesis of Poly(dipyridinebenzoquinone) Derivatives and Application to Cathode-Active Materials of Lithium-Ion Batteries (Sch. Advanced Sci. Eng., Waseda Univ.) ○SUZUKI, Miyu; SANO, Kouhei; KAWAI, Takuma; OYAIZU, Kenichi; NISHIDE, Hiroyuki

3A3-05 Synthesis of Poly(viologen-substituted styrene) Particle and Application to a Redox Flow Battery (Sch. Advanced Sci. Eng., Waseda Univ.) ○NAGANO, Takashi; NOGUCHI, Shiori; OYAIZU, Kenichi; NISHIDE, Hiroyuki

3A3-06 Fabrication of a Flexible Secondary Battery Consisting of TEMPO and Anthraquinone-substituted Polymers as Electrode-Active materials (Sch. Advanced Sci. Eng., Waseda Univ.) ○WAKAMATSU, Hisato; SATO, Kan; OYAIZU, Kenichi; NISHIDE, Hiroyuki

Chair: MATSUI, Jun (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3A3-08, 3A3-11, 3A3-12, 3A3-13)

3A3-08[#] Young Scholar Lectures of CSJ Development of Potential Programmed Functional Polymers (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) ○ALBRECHT, Ken

3A3-11 Arylamine Polymers as the Hole-Transporting Layer for a Perovskite Solar Cell with 1 cm² Active Area (Sch. Advanced Sci. Eng., Waseda Univ.) ○YAMAGUCHI, Mayu; WATANABE, Shinichiro; MARUO, Hirofumi; OYAIZU, Kenichi; NISHIDE, Hiroyuki

3A3-12 Oxidative Polymerization of Methoxy-substituted Triphenylamines and their Application to a Perovskite Solar Cell (Sch. Advanced Sci. Eng., Waseda Univ.) ○OKADA, Wataru; NAKAJIMA, Risano; MARUO, Hirofumi; OYAIZU, Kenichi; NISHIDE, Hiroyuki

3A3-13 Synthesis of Poly(*N*-phenyl carbazole) and Its Application to Perovskite Solar Cell (Sch. Advanced Sci. Eng., Waseda Univ.) ○SHIROGANE, Yuta; SUGA, Takeo; NISHIDE, Hiroyuki

Chair: OAKI, Yuya (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3A3-15, 3A3-16, 3A3-17, 3A3-18, 3A3-19, 3A3-20)

3A3-15[#] Microwave synthesis of metallo-supramolecular polymers (NIMS; AIST) ○RANA, Utpal; SAITO, Yoko; TAKEUCHI, Kazuhiko; NAGAHATA, Ritsuko; HIGUCHI, Masayoshi

3A3-16 Multivalent Ionic Liquid for Ultrahigh Capacitance (Grad. Sch. Eng., The Univ. of Tokyo) ○MIZUTANI, Wataru; MATSUMOTO, Michio; SOTOIKE, Rina; SHIMIZU, Sunao; ITOH, Yoshimitsu; WATANABE, Masayoshi; IWASA, Yoshihiro; AIDA, Takuzo

3A3-17 Ion Conductivity Membrane Composed of Poly(*N*-alkylacrylamide) Lamellar Formation (Grad. Sch. Sci., Eng., Yamagata Univ.) ○EBATA, Kazuki; GOTO, Ryouzuke; NAGANO, Shusaku; NAGAO, Yuki; YAMAMOTO, Shunsuke; MITSUISHI, Masaya; MATSUI, Jun

3A3-18 Soft sensors/actuators composed of CNT-based flexible electrodes and piezoelectric polymers (Fac. Textile Sci. Technol., Shinshu Univ.) ○TAKAHASHI, Saki; IMAMURA, Hiroya; TAYA, Minoru; KIMURA, Mutsumi

3A3-19 Diphenyl Sulfone-Substituted Polymers and Their Electrochemical Property (Sch. Advanced Sci. Eng., Waseda Univ.) ○OKA, Kouki; KATO,

Ryo; OYAIZU, Kenichi; NISHIDE, Hiroyuki

- 3A3-20** Poly (acetophenone-substituted acrylamide) and Its Electrolytic Hydrogenation (Sch. Advanced Sci. Eng., Waseda Univ.) ○UEDA, Homare; SUMI, Hiroki; KATO, Ryo; OYAIZU, Kenichi; NISHIDE, Hiroyuki

Sunday, March 19, AM

Chair: OTSUKA, Hidenori (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4A3-01, 4A3-02, 4A3-03, 4A3-04, 4A3-05, 4A3-06)
- 4A3-01** Effects of side chain structure of polymer on water structure in thermo-responsive hydrogels (Dept. of Sci. Tech., Meiji Univ.) ○SOGABE, Hayato; IKEDA-FUKAZAWA, Tomoko
- 4A3-02** Effects of Polymer Composition on Structure of Polymer Networks in Poly-(acrylamide-co-dimethylacrylamide) hydrogels (Dept. of Sci. Tech., Meiji Univ.) ○AZUMA, Hikaru; TABATA, Mayu; AIZAWA, Mamoru; FUKAZAWA, Tomoko
- 4A3-03** Preparation and Characterization of Double Network Hydrogels Using Enzymatic Synthesis of Cellulose (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KOJIMA, Tomoya; HATA, Yuuki; SAWADA, Toshiaki; SERIZAWA, Takeshi
- 4A3-04** Synthesis of Self-aggregated Materials by Reductive Amination of Amylose Analog Aminopolysaccharide (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○KADOKAWA, Jun-ichi; NAKAUCHIDA, Takuya; YAMAMOTO, Kazuya
- 4A3-05** Preparation of Amylose-Chitin Nanofiber Composite Materials (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○EGASHIRA, Naomichi; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 4A3-06** Preparation of Amylose Supramolecular Porous Materials by Vine-Twining Polymerization (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○SHOUJI, Takuya; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi

Chair: FUKAZAWA, Tomoko (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4A3-08, 4A3-09, 4A3-10, 4A3-11, 4A3-13)
- 4A3-08** Preparation of Composite Materials from Different Types of Chitin Nanofibers (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○YAMAMOTO, Kazuya; SATO, Koki; KADOKAWA, Jun-ichi
- 4A3-09** Dissolution Behaviors of Chitin Crystal in Ionic Liquids ; A Theoretical Study (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○UTO, Takuya; YOSHIDA, Junpei; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 4A3-10** Molecular Dynamics Study of Cellulose Crystal Models in Ionic Liquids (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○UTO, Takuya; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 4A3-11*** Engineered Protein GroEL for controlling 1D to 3D Nanostructural Assembly (Grad. Sch. Eng., The Univ. of Tokyo) ○SIM, Seunghyun; AIDA, Takuzo
- 4A3-13*** GroEL/DNA Conjugate (Fac. Eng., The Univ. of Tokyo) ○KASHIWAGI, Daiki; SIM, Seunghyun; AIDA, Takuzo

Chair: YAMAMOTO, Kazuya (11 : 20 ~ 12 : 00)

- * 11:10-11:20: interval for laptop PC connection.(4A3-15, 4A3-16, 4A3-17, 4A3-18)
- 4A3-15** Miscibility behavior of gelatin and cyclodextrin solution (Fac. Eng., FIT) ○MIHASHI, Koki; KUWAHARA, Junko; MITA, Hajime
- 4A3-16** Effect of Fibrous Network with Self-assembling Peptide in IPN Hydrogel on Cartilage Regeneration (Grad. Sch. Chem. Sci. Technol., TUS) ○MASHIMO, Taro; ISHIKAWA, Shohei; MATSUKUMA, Daisuke; OTSUKA, Hidenori
- 4A3-17** Fabrication of Biodegradable and Injectable Hydrogel with IPN Structure for Cartilage Tissue Engineering. (Grad. Sch. Chem. Sci. Technol., TUS) ○ISHIKAWA, Shohei; IJIMA, Kazutoshi; MATSUKUMA, Daisuke; HASHIZUME, Mineo; IJIMA, Michihiro; OTSUKA, Hidenori
- 4A3-18** Gap control of the gold pattern on the gel and direct observation by electron microscopy (Sch. Sci., Hokkaido Univ.; RIES, Hokkaido Univ.) ○HAMAJIMA, Satoru; MITOMO, Hideyuki; MATSUO, Yasutaka; NIIKURA, Kenichi; IJIRO, Kuniharu

Room A4

Fourth Building, Section A J416

Education and History of Chemistry

Thursday, March 16, AM

Chair: ITO, Hideto (9 : 50 ~ 10 : 40)

- * 9:40-9:50: interval for laptop PC connection.(1A4-06, 1A4-07, 1A4-08, 1A4-09, 1A4-10)
- 1A4-06** Cumene method using photo-radical initiator (Grad. Sch.

Mathematics Sci. Edu., TUS) ○KUMAGAI, Fumi; INOUE, Masayuki

- 1A4-07** Synthetic experiment of salicylic acid from phenol -Experimental teaching material of Kolbe method- (Grad. Sch. Mathematics Sci. Edu., TUS) ○SATO, Kazunori; INOUE, Masayuki
- 1A4-08** An Inquiry-Based Learning Program to Study Chemical Equilibrium and Organic Reaction of Esterification (Grad. Sch. Educ., Hiroshima Univ.) ○SHIMONISHI, Koki; AMIMOTO, Kiichi
- 1A4-09*** Development of Electronic Lab Book for College Chemistry-experiment - S_{N1} and S_{N2} - (Fac. of Edu., Tokyo Gakugei Univ.) ○IKUO, Akira; TOYAMA, Yuki; YOSHINAGA, Yusuke; OGAWA, Haruo
- 1A4-10** Toxicity Test of Surfactants using Vibrio fisheri and Potorabdus luminescens. (National Institute of Technology Oita college) ○NINOMIYA, Junko; UENO, Tkahisa; MORITA, Hiroshi

Chair: SHIMOI, Mamoru (10 : 50 ~ 11 : 50)

- * 10:40-10:50: interval for laptop PC connection.(1A4-12, 1A4-15)
- 1A4-12** CSJ Award for Merits for Chemical Education Practical Study on Education of Chemistry and Science in Middle School and Design of Their Curriculum (Junior High Sch. at Otsuka, Univ. of Tsukuba) ○SHOJI, Ryuichi
- 1A4-15** CSJ Award for Merits for Chemical Education Science Education in special schools, and activities of the CSERS(Society Council of Science Education Related Societies)for Many Years (NPO "Laboratory of Eco-Tech Mirai"; RUPP Edu) ○MAMADA, Kazuhiko

Thursday, March 16, PM

Chair: OGINO, Kazuko (13 : 00 ~ 14 : 20)

- * 12:50-13:00: interval for laptop PC connection.(1A4-25)
- 1A4-25** CSJ Award for Chemical Education Promotion activities of chemical education and personal training of future scientist by all Yamagata network (Fac. Sci., Yamagata Univ.) ○KURIYAMA, Yasunao

Chair: IKUO, Akira (14 : 10 ~ 15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(1A4-32, 1A4-35, 1A4-36)
- 1A4-32** CSJ Award for Merits for Chemical Education Development of Teaching Material for Chemistry Experiments and Contribution to Chemical Education (Tokyo Metropolitan Musashi Senior High Sch.) ○USUI, Toyokazu
- 1A4-35** Chemical Teaching Materials Using the Deacetylated Chitin: Adsorption of Metal Ions and Dyeing (Grad. Sch. Educ., Hiroshima Univ.) ○TAKEMURA, Masakazu; AMIMOTO, Kiichi
- 1A4-36*** Is right such description:"Natural amino acids are L-form" in the textbooks of high school chemistry? (Dept. Sci., Naruto Univ. of Edu.) ○MUNEGUMI, Toratane

Chair: KAMEI, Osamu (15 : 20 ~ 16 : 00)

- * 15:10-15:20: interval for laptop PC connection.(1A4-39, 1A4-40, 1A4-41)
- 1A4-39** Chemical communication for high school girls and university women students with a unique chemistry book and some experiments (Salesian Polytechnic; RIKEJO CAFE; Rikechen; Rin) ○NAGAO, Akemi; UJIE, Kazuhiko; ONO, Mayumi; FUJII, Yumi; YAZAWA, Mizuki; ARAKI, Miho; SAKAGUCHI, Marina
- 1A4-40** A Study of competency based curricula in elementary and secondary school chemistry (Grad. Sch. Educ., Hiroshima Univ.) ○MIYOSHI, Miori
- 1A4-41*** The new structural formula as a tool of Active-learning at chemical education (LOGES) ○SANO, Horosi

Chair: NAGAO, Akemi (16 : 10 ~ 16 : 50)

- * 16:00-16:10: interval for laptop PC connection.(1A4-44, 1A4-46)
- 1A4-44*** Analysis with the Systematized Survey on the History of Technology: Drug Discovery, Pitch-based Carbon Fiber and etc. (NMNS) ○KAMEI, Osamu
- 1A4-46*** Practical Examples of Science Education in the Times of Post Globalization and Post Regional Revitalization (Department of Law, Meiji Gakuin Univ.; Science Education Gate Assembly for Otaru; Graduate School of Literature, Hokkaido Univ.; Otaru city council) ○IWAMA, Sekai; ASAHII, Fumiyoshi; MIYOSHI, Tatsuya; TAKAHASHI, Ryu

Friday, March 17, AM

Chair: INOUE, Masayuki (9 : 50 ~ 10 : 50)

- * 9:40-9:50: interval for laptop PC connection.(2A4-06, 2A4-09)
- 2A4-06** CSJ Award for Merits for Chemical Education Contributions to Chemical Education Through Developing "Peer-Teaching" Methods and Tools (Yutakano High Sch.) ○ADACHI, Satoshi
- 2A4-09** CSJ Award for Merits for Chemical Education Contribution to High School Chemistry Education and Popularization of Science among Youth in Hyogo Prefecture (Hyogo Prefectural Kobe High Sch.) ○NAKAZAWA, Katsuyuki

Chair: ITO, Masato M. (11 : 00 ~ 12 : 00)

- * 10:50-11:00: interval for laptop PC connection.(2A4-13)
- 2A4-13** CSJ Award for Chemical Education Contribution to Chemical Education in Japan, Asia and Africa through International Cooperation

(Grad. Sch. Edu., Okayama Univ.) OKITA, Masakazu

Friday, March 17, PM

Chair: AMIMOTO, Kiichi (13 : 10~14 : 10)

* 13:00-13:10: interval for laptop PC connection.(2A4-26, 2A4-27, 2A4-28, 2A4-30)

2A4-26 Experimental teaching material about synthesis of ethenzamide from salicylaldehyde (Grad. Sch. Mathematics Sci. Edu., TUS) OSHIMAMURA, Wataru; INOUE, Masayuki**2A4-27** Detection of sulfur containing amino acid residues in proteins (Grad. Sch. Mathematics Sci. Edu., TUS) OTOMITA, Yuki; INOUE, Masayuki**2A4-28*** Synthesis of triarylmethane dye molecules utilizing "boric silica gel" (Grad. Sch. Mathematics Sci. Edu., TUS) O MATSUOKA, Masatada; INOUE, Masayuki**2A4-30**** Chemistry Experiment Using Suzuki-Miyaura Cross-Coupling Reaction as Fascinating Liberal Arts Education in University (Inst. Libe. Arts Sci., Nagoya Univ.) OITO, Hideto

Saturday, March 18, AM

Chair: CHOUNAN, Yukiyasu (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3A4-01, 3A4-02, 3A4-03, 3A4-05)

3A4-01 Development and utilization of educational model kits to understand transcription and translation (Shinwa Girls' J-S High; FIBER, Konan Univ.) OMIMURA, Kaori; FUJITA, Mariko; UMEZAKI, Akira; TATEISHI-KARIMATA, Hisae; TAKAHASHI, Shuntaro; ENDOH, Tamaki; FUJII, Taiga; SUGIMOTO, Naoki**3A4-02** Application of Tensegrity for understanding crystals (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OKANJOH, Terumitsu; KOBAYASHI, Masami**3A4-03*** Formation of stereoscopic image of molecule using chemistry educational application (Fac. Edu., Ehime Univ.) OHASHI, Atsushi; NITTA, Sae**3A4-05*** Practical usages of 3D-printed models in science educations of chemistry and biology (Coll. Sci., Rikkyo Univ.) OMOCHIZUKI, Yuji; NAKAMURA, Shota; YAMANAKA, Masahiro; YAMADA, Yasuyuki; KUDO, Mitsuko; TOKIWA, Hiroaki; KAWAKAMI, Masaru; KITAMOTO, Shunji

Chair: KURIYAMA, Yasunao (10 : 10~11 : 00)

* 10:00-10:10: interval for laptop PC connection.(3A4-08, 3A4-09, 3A4-10, 3A4-11, 3A4-12)

3A4-08 Cooling behavior of water and aqueous solution - relation to the temperature dependence of density (Grad. Sch. Sci., Osaka Univ.; HUS) OKANEKO, Fumitoshi; YAMASHITA, Ryunosuke; MATSUMOTO, Atsushi; OGAWA, Naohisa**3A4-09** Development of environmental-benign Teaching Materials using Ionic Liquids (Fac. Edu., Kagawa Univ.) OHATA, Motoki; TAKAGI, Yumiko**3A4-10** Development of a new simplified experimental method to promote understanding of combustion phenomena (Fac. of Edu., Yamaguchi Univ.) WAIZUMI, Kenji; O MATSHUSHIGE, Yoshihiro**3A4-11** Research carried out by high school students on the rotational motion of swirling metal dendrites with neodymium magnets and the educational lessons learned (L.S.H.S) ONOGUCHI, Daisuke**3A4-12*** Observation of Air in Leaves through Stomata (Grad. Sch. Edu., Okayama Univ.) OCRISOLOGO, Dawn; KITA, Masakazu

Chair: KANEKO, Fumitoshi (11 : 10~12 : 00)

* 11:00-11:10: interval for laptop PC connection.(3A4-14, 3A4-15, 3A4-16, 3A4-17)

3A4-14 Microscale Chemistry for understanding for Hydrogen Society (Fac. Sci., Yamagata Univ.; Tohoku Univ.) OKURIYAMA, Yasunao; OGINO, Kazuko**3A4-15** Dissemination of environmentally benign chemistry experiments (Tohoku Univ.; Fac. Sci., TUS; Fac. Symb. Sys. Sci., Fukushima Univ.; Tohoku Univ.; Fac. Sci., Yamagata Univ.; Miyagi Univ. of Educ.; Fac. Edu., Kagawa Univ.; Shuko; Coll. of Liberal Arts, ICU) OOGINO, Kazuko; INOUE, Masayuki; INOMATA, Shinji; OMATA, Kenji; KURIYAMA, Yasunao; SAWATARI, Hideyuki; SHOJI, Keiko; SEKINE, Tsutomu; TAKAGI, Yumiko; YOSHINO, Teruo**3A4-16** Development of the teaching material of biomass to introduce carbon neutral concept (Fac. Edu., Hirosaki Univ.) OCHOUNAN, Yukiyasu; HARADA, Takuma; KATSUKAWA, Kenzo; KAWAMURA, Azusa**3A4-17*** Risk Assessment of Chemical Substances in Kyushu University (IMCE, Kyushu Univ.) OTAKADA, Akihiko; TANAKA, Junji; SHINDO, Mitsuru; KATAHIRA, Yoshiko; MUTA, Ryota; YAMANAKA, Michio; KUROKI, Koichi

Room A5

Fourth Building, Section A J421

Environmental and Green Chemistry

Thursday, March 16, PM

Chair: MOCHIDA, Tomoyuki (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1A5-28, 1A5-29, 1A5-30, 1A5-32, 1A5-33)

1A5-28 The dechlorination of organochlorine compounds of formic acid-based ionic liquid (Fac. Sci. Eng., Doshisha Univ.) OHAYASHI, Takahiro; YASAKA, Yoshiro; UENO, Masakatsu; KIMURA, Yoshifumi**1A5-29** Dechlorination of the organochlorine compound by the solid catalysts. (Fac. Sci. Eng., Doshisha Univ.) OYAMADA, Ryoji; YASAKA, Yoshiro; UENO, Masakatsu; KIMURA, Yoshifumi**1A5-30**** Distribution and spatial studies on pesticide residues in marine samples from Seto Inland Sea, Japan. (Graduate School of Biosphere Science) OABDEL-DAYEM, Sherif; CHIDYA, Russel; TAKEDA, Kazuhiko; SAKUGAWA, Hiroshi**1A5-32*** Evaluation of hydrolysis rates of hexafluoropropylene oxide (HFPO) by use of a closed-circulation reactor (AIST) OKUTSUNA, Shuzo**1A5-33** The characteristics of volatile fatty acids emitted from livestock houses (CRIEPI) OOSAKA, Nao; MIYAZAKI, Akane; TANAKA, Nobuyuki

Chair: KUTSUNA, Shuzo (14 : 40~15 : 30)

* 14:30-14:40: interval for laptop PC connection.(1A5-35, 1A5-36, 1A5-37, 1A5-38, 1A5-39)

1A5-35* Synthesis of Quinazolinones via Cyclocondensation of beta-Deketones with 2-Aminobenzamide by Solid Acid Catalyst (Sch. Mat. Sci., JAIST) OYIN, Hongrong; NISHIMURA, Shun; EBITANI, Kohki**1A5-36** Development of Hydrogenation Reaction Systems of Aromatic Carbonyl and Nitrile Compounds Using Supported Pd Catalysts (Sch. Mat. Sci., JAIST) ONOZOE, Yuuou; TOMAR, Pooja; OZAWA, Naoto; NISHIMURA, Shun; EBITANI, Kohki**1A5-37** Design of catalysts containing anions for enhancing efficiency of oxidative organic conversion reaction (Fac. Env. Urban Eng., Kansai Univ.) OFUKU, Kojiro; FUJIMOTO, Shunpei; IKENAGA, Naoki**1A5-38** Development of environmental-benign Ionic liquids with dissolution ability of cellulose (Fac. Edu., Kagawa Univ.) OWATANABE, Keigo; TAKAGI, Yumiko**1A5-39** Selective Transesterification of Polyols Using Titanium ion-exchanged Montmorillonite Catalyst (Grad. Sch. Eng. Sci., Osaka Univ.) OMORITA, Takamasu; MIZUGAKI, Tomoo; MAENO, Zen; MITSUDOME, Takato; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

Chair: EBITANI, Kohki (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(1A5-41, 1A5-42, 1A5-43, 1A5-44, 1A5-45, 1A5-46)

1A5-41 Characteristics of the long-term observation of chemical components in atmospheric aerosol (Osaka City Inst. Public. Health & Env. Sci.) OFUNASAKA, Kunihiko**1A5-42** Removing of trace Cu(II) by co-flocculation with humic acids under seawater condition (Grad. Sch. Eng., Osaka Pref. Univ.) OIWAI, Hisanori**1A5-43** Simultaneous Removal and fluorine and boron from industrial wastewater with layered double hydroxide (Fac. Env. Urban Eng., Kansai Univ.) OKIYOKAWA, Takayasu; MAEDA, Yusuke; IKENAGA, Naoki**1A5-44*** Determination of Asbestos in Construction Materials Scattered by Kumamoto Earthquake and its Safety Treatment (Grad. Sch. Sci. Eng., Saga Univ.) OTABATA, Masaaki; SHONO, Akifumi**1A5-45** ¹¹³Cd CP-MAS NMR spectrum of cadmium hydroxides containing various anions in their structures (Fac. of Sci., JWU) OSAKAI, Yuka; KAWAMOTO, Daisuke; YOKOYAMA, Takushi; MIYAZAKI, Akane**1A5-46*** Prediction of ESI Vaporization Kinetics of Pesticide Transformation Products in Water Environments (Grad. Sch. Sci., Eng., Kagoshima Univ.) OUEDA, Takehiko; TAKANASHI, Hirokazu; KADOKAWA, Jun-ichi

Chair: IWAI, Hisanori (16 : 50~17 : 40)

* 16:40-16:50: interval for laptop PC connection.(1A5-48, 1A5-49, 1A5-50, 1A5-51)

1A5-48 Screening tests for mixing hazardous compounds using small scale Dewar vessels (Coll. Industrial Tech., Nihon Univ.) OSUZUKI, Risa; YOSHINO, Satoru; KOMORIYA, Tomoe; SAKAMOTO, Keichi**1A5-49** Pigment analysis of ginkgo leaves (Sch. Sci. Eng., Univ. of Tsukuba) OISEI, Yuhta; WADA, Katsuhiro**1A5-50** Adsorption of heavy metals ion on used tea leaves and extraction residue of coffee grounds. (Teikyo Univ.) OYAMADA, Taku; EMRIZAL, Norhaniza; YANAGIHARA, Naohisa**1A5-51*** Efficient photochemical recovery of rhenium from aqueous solutions (Fac. Sci., Kanagawa Univ.) OHORI, Hisao; OTSU, Takafumi

Friday, March 17, PM

Chair: KOMINAMI, Hiroshi (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2A5-28, 2A5-30, 2A5-32, 2A5-33)

2A5-28* Depolymerization of polycarbonate using CeO₂ nanocatalysts (Fac. Sci. Eng., Chuo Univ.) ○TAGUCHI, Minoru; ISHIKAWA, Yuki; KATAOKA, Shihō; NAKA, Takashi; FUNAZUKURI, Toshitaka**2A5-30**** Earth-abundant aluminum porphyrins as molecular catalyst for water oxidation (Cent. Artificial Photosynthesis, TMU) ○KUTTASSERY, Fazalurahman; MATHEW, Siby; YAMAMOTO, Daisuke; ONUKI, Satomi; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo**2A5-32** Seawater desalination by solar light using dye-modified hydrophobic membrane (RCPT, AIST) ○FUJIWARA, Masahiro**2A5-33** Oxidation of Disaccharide by Photocatalysis Toward Production of Disaccharide Rare Sugars (Grad. Sch. Fac. Sci. Technol., TUS) ○TAKEUCHI, Tamami; YAMAMOTO, Yasuhiro; KANAI, Yoshihiro; TERASHI, Chiaki; KATSUMATA, Kenichi; SUZUKI, Norihiro; ABE, Masahiko; SAKAGUCHI, Kengo; FUJISHIMA, Akira; YAMATOYA, Kenji; IKEKITA, Masahiko; NAKATA, Kazuya

Chair: FUJIWARA, Masahiro (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(2A5-35, 2A5-36, 2A5-37, 2A5-38, 2A5-39, 2A5-40)

2A5-35 Production of L-Rare Sugars from Monosaccharide by Photocatalytic Oxidation (Fac. Sci. Technol., TUS) ○HIROSHIMA, Hayao; YAMAMOTO, Yasuhiro; TAKEUCHI, Tamami; TSUTSUMI, Tomoe; KANAI, Yoshihiro; TERASHI, Chiaki; KATSUMATA, Kenichi; SUZUKI, Norihiro; ABE, Masahiko; FUJISHIMA, Akira; YAMATOYA, Kenji; IKEKITA, Masahiko; NAKATA, Kazuya**2A5-36** Generation of Rare Sugars by Photocatalytic Oxidation of Sugar Alcohols (Fac. Sci. Technol., TUS) ○NAKAMURA, Yu-ki; YAMAMOTO, Yasuhiro; TSUTSUMI, Tomoe; TAKEUCHI, Tamami; KANAI, Yoshihiro; TERASHI, Chiaki; KATSUMATA, Kenichi; SUZUKI, Norihiro; ABE, Masahiko; FUJISHIMA, Akira; YAMATOYA, Kenji; IKEKITA, Masahiko; NAKATA, Kazuya**2A5-37** Selective oxidation of sulfide over cocatalyst-loaded WO₃ under irradiation of visible light (Fac. Sci. Eng., Kindai Univ.) ○MIYATA, Naomichi; TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi**2A5-38** Highly Photocatalytic Activity of TiO₂ Treated by Solution Plasma with Tube Electrode (Fac. Sci. Technol., TUS) ○SUZUKI, Shoki; HONDA, Kaede; TERASHI, Chiaki; SUZUKI, Norihiro; NAKATA, Kazuya; KATSUMATA, Ken-ichi; KONDO, Takeshi; YUASA, Makoto; HIJISHIMA, Akira**2A5-39** Spore inactivation with visible light responsive photocatalyst WO₃ (Fac. Sci. Technol., TUS) ○SAKUMA, Takahiro; SHIMODO, Takahito; USUKI, Sho; YAMAGUCHI, Yuuichi; TERASHI, Chiaki; KATSUMATA, Kenichi; SUZUKI, Norihiro; SUZUKI, Tomonori; FUJISHIMA, Akira; YAMATOYA, Kenji; IKEKITA, Masahiko; NAKATA, Kazuya**2A5-40** Sterilization of *Anabaena* by TiO₂ photocatalysis and Mechanism Analysis (Fac. Sci. Technol., TUS) ○TANO, Masaki; KANAGAWA, Kaito; TOMO, Tatsuya; TERASHI, Chiaki; KATSUMATA, Kenichi; SUZUKI, Norihiro; FUJISHIMA, Akira; YAMATOYA, Kenji; IKEKITA, Masahiko; NAKATA, Kazuya

Chair: KANECO, Satoshi (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2A5-42, 2A5-43, 2A5-44, 2A5-46)

2A5-42 Photocatalytic Oxidation of Monosaccharide Ketose Toward Production of Rare Sugars (Grad. Sch. Fac. Sci. Technol., TUS) ○TSUTSUMI, Tomoe; YAMAMOTO, Yasuhiro; KANAI, Yoshihiro; TERASHI, Chiaki; KATSUMATA, Kenichi; SUZUKI, Norihiro; ABE, Masahiko; SAKAGUCHI, Kengo; FUJISHIMA, Akira; YAMATOYA, Kenji; IKEKITA, Masahiko; NAKATA, Kazuya**2A5-43** Photo-Fenton-like reaction of dyes with bismuth-treated hydroxyapatites as catalysts in water (Dept. Lib. Arts, Saitama Med. Univ.) ○MORIGUCHI, Takeshi; NAKAGAWA, Souhei**2A5-44*** Microwave-promoted alcoholysis of polycarbonate without catalyst (Fac. Eng., Sojo Univ.) ○IKENAGA, Kazutoshi; KORI, Satoshi**2A5-46**** CO₂ Capture Using Amine Functionalized Ionic Liquids (Chemical Research Group, RITE) ○CHOWDHURY, Firoz Alam; KATO, Tsuguhiko

Chair: KANECO, Satoshi (17 : 00~17 : 10)

* 16:50-17:00: interval for laptop PC connection.(2A5-49)

2A5-49 Search and evaluation of hydrogen-producing bacteria in deep sea sediment (Grad. Sch. Eng., KAIT) ○KOBAYASHI, Kenta; MATSUSHITA, Yuta; MAKITA, Hiroko; SAITO, Takashi

Resources Utilization Chemistry

Saturday, March 18, PM

Chair: FUKU, Kojiro (13 : 00~13 : 40)

* 12:50-13:00: interval for laptop PC connection.(3A5-25, 3A5-27, 3A5-28)

3A5-25* Effective metal concentration via Homogeneous liquid-liquid extraction (HoLLE) and its application to plating wastewater. (Ind. Tech. Inst. Ibaraki Pref.) ○KATO, Takeshi; IGARASHI, Shukuro**3A5-27** Effect on preparation conditions of Ag loaded on titanium (IV) oxide electrode for selective reduction of nitrate to nitrite (Grad. Sch. Sci. Eng., Kindai Univ.) ○YAMADA, Hiroki; TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi**3A5-28** Photocatalytic reduction of nitrite to nitrate in aqueous suspension of silver-loaded titanium(IV) oxide (Fac. Sci. Eng., Kindai Univ.) ○TAKENOUCHI, Sho; TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

Chair: KAKUTA, Yusuke (13 : 50~14 : 50)

* 13:40-13:50: interval for laptop PC connection.(3A5-30, 3A5-31, 3A5-32, 3A5-33, 3A5-34, 3A5-35)

3A5-30 Hydrogenation reduction using a novel module composed by Pd alloy membrane (Grad. Sch. Eng., Nagoya Inst. of Tech.; NGK SPARK PLUG CO., LTD.) ○OZAWA, Tomohiro; ENDO, Suguru; INOMATA, Tomohiko; MASUDA, Hideki; KAWASE, Hiroki; ITOH, Masaya**3A5-31** Buta-1,3-diene synthesis from ethanol with mixed catalyst of MgO and oxidized diamond (Grad. Sch. Sci. and Eng., Kansai Univ.) ○FUJIBAYASHI, Ryuya; FUKU, Kojiro; IKENAGA, Naoki**3A5-32** Generation behavior of N-containing products during steam gasification of polyurethane using Ni/Mg/Al catalysts (Grad. Sch. Environmental Studies, Tohoku Univ.) ○YABUKI, Ryosuke; KUMAGAI, Shogo; KAMEDA, Tomohito; YOSHIOKA, Toshiaki**3A5-33** Online analysis of the behavior of benzene formation from poly(ethylene terephthalate) using CaO (Grad. Sch. Environmental Studies, Tohoku Univ.) ○YAMASAKI, Ryota; KUMAGAI, Shogo; KAMEDA, Tomohito; WATANABE, Atsushi; YOSHIOKA, Toshiaki**3A5-34** Degradation of poly(vinyl chloride) with subcritical H₂O. (Teikyo Univ.) ○YANAGIHARA, Naohisa; KASHIWAKURA, Yusuke; SATO, Yoshiaki; TAKEUCHI, Kosuke; KUMAKURA, Tomoya**3A5-35** A Mechanistic Study on Depolymerization Reaction of Polyamides in Supercritical Methanol (Grad. Sch. Sci. Techn., Yamaguchi Univ.; Ube laboratories, Ube Industries) ○KAMIMURA, Akio; IKEDA, Kosuke; MATSUMOTO, Hiroshi; KAISO, Kouji; YOSHIMOTO, Makoto

Chair: AOYAGI, Mitsuru (15 : 00~15 : 40)

* 14:50-15:00: interval for laptop PC connection.(3A5-37, 3A5-38, 3A5-39, 3A5-40)

3A5-37 Dissolution of Klason lignin in onium hydroxide aqueous solutions (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○NAGATANI, Mao; SATO, Daiki; TSURUMAKI, Akiko; OHNO, Hiroyuki**3A5-38** Effect of oxygen addition on the dissolution of lignin in tetrabutylphosphonium hydroxide aqueous solution (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○ASANUMA, Koji; SHIMO, Mizuki; TSURUMAKI, Akiko; OHNO, Hiroyuki**3A5-39** Solubility and stability of chlorophylls in algal oils (Sch. Sci. Eng., Univ. of Tsukuba) ○KAITANI, Taku; KANJOH, Terumitsu**3A5-40** Extraction of organic compounds from the methane fermentation residue of macroalgae using ionic liquid. (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○OKAYASU, Kosuke; IKEDA, Kazuma; OHNO, Hiroyuki; NAKAMURA, Nobuhumi; NAKASHIMADA, Yutaka; MIURA, Toyokazu; MATSUMURA, Yukihiko; ITO, Hiroshi

Room A6

Fourth Building, Section A J422

Energy and Related Chemistry, Geo and Space Chemistry

Thursday, March 16, PM

Energy Chemistry

Chair: MIYAKE, Ryosuke (13 : 40~14 : 40)

* 13:30-13:40: interval for laptop PC connection.(1A6-29, 1A6-31, 1A6-33)

1A6-29** Quantitative evaluation of ammonia photosynthesis using plasmon photoanode (RIES, Hokkaido Univ.) ○OSHIKIRI, Tomoya; UENO, Kosei; MISAWA, Hiroaki**1A6-31**** Plasmon-induced photocurrent generation using coupling between localized surface plasmon resonance and cavity mode (RIES, Hokkaido Univ.) ○SHI, Xu; OSHIKIRI, Tomoya; UENO, Kosei; SASAKI, Keiji;

MISAWA, Hiroaki

- 1A6-33**** Synthesis of Porous Coordination Polymers bearing NADH Model Compounds (WPI-iCeMS, Kyoto Univ.) ○KAJIWARA, Takashi; KITAGAWA, Susumu

Chair: UENO, Kosei (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(1A6-36, 1A6-37, 1A6-38, 1A6-39, 1A6-40, 1A6-41)
- 1A6-36** Multi-scale Structured Thermoelectric Materials of Transition Metal Sulfide Materials by Panoscopic approach (Sch. Mat. Sci., JAIST) ○ITO, Asae; SHIJIMAYA, Tomoko; HIGASHIMINE, Koichi; OHTA, Michihiro; MIYATA, Masanobu; MOTT, Derrick; AKATSUKA, Takeo; ONO, Hironobu; KOYANO, Mikio; MAENOSONO, Shinya
- 1A6-37*** Novel Thermo-electrochemical Cells based on Proton-conjugated Electron Transfer in Aqueous pH-responsive Polymers (Grad. Sch. Eng., Kyushu Univ.) ○GAO, Fan; KAKU, Honsui; YAMADA, Teppei; HOSHINO, Yu; KIMIZUKA, Nobuo; MIURA, Yoshiko
- 1A6-38** Enhanced Seebeck coefficient of thermos-electrochemical cell based on the temperature-dependent complexation of ferrocene derivatives and cyclodextrins. (Fac. Eng., Kyushu Univ.) ○ZOU, Xiaopeng; YAMADA, Teppei; KIMIZUKA, Nobuo
- 1A6-39*** Electric power generation method using fuel cells for low carbon emission (Kyushu Univ.) ○TACHIKAWA, Yuya; MATSUZAKI, Yoshio; KAWABATA, Yasuharu; TANIGUCHI, Shunsuke; SASAKI, Kazunari
- 1A6-40** Estimation of the velocity from the molecular vibration theory (Fac. Eng., Saitama Univ.) ○NOHIRA, Hiroyuki; NOHIRA, Toshiyuki
- 1A6-41** Synthesis of Poly-3-azidomethyl-3-methyloxetane for solid rocket propellant (Coll. Industrial Tech., Nihon Univ.) ○SHIDA, Hiroshi; YOSHINO, Satoru; KOMORIYA, Tomoe; SAKAMOTO, Keiiti

Friday, March 17, AM

Electrolysis

Chair: HAYASHI, Akitoshi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2A6-01, 2A6-03, 2A6-05)
- 2A6-01**** Synthesis of a novel gold cluster-modified LDH nanosheet and its application to oxygen evolution reaction (I₂CNER, Kyushu Univ.) ○KITANO, Sho; SADAKIYO, Masaaki; YAMAUCHI, Miho
- 2A6-03**** Development of a Polymer Electrolyte Alcohol Electrosynthesis Cell (PEAEC) Continuously Producing Alcohols from Carboxylic Acids (I₂CNER, Kyushu Univ.) ○SADAKIYO, Masaaki; CUI, Xuedong; HATA, Shimichi; YAMAUCHI, Miho
- 2A6-05*** Effect of extremely small amount of Pt oxide or Pt group metal oxide sputtering on the anode of solid oxide fuel cells on improvement of anode performance (GREEN, NIMS) ○MORI, Toshiyuki; REDNYK, Andrii; YAMAMOTO, Shunya; SUZUKI, Akira; YAMAMOTO, Yuta; ISHIDA, Takashi; TANJI, Takayoshi; ISAKA, Noriko; ITO, Shigeharu; OKUBO, Hiroshi

Electrolyte and Electrolysis

Chair: YAMAUCHI, Miho (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2A6-08, 2A6-09, 2A6-10, 2A6-11, 2A6-12, 2A6-13)
- 2A6-08** Polyallylamine and polyoxometalate composites aimed as proton conductors (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○MIYAZAWA, Satoru; NIINOMI, Kazuma; UCHIDA, Sayaka
- 2A6-09** Preparation of Li₂O-B₂O₃-SiO₂ glass electrolytes by mechanical milling and their characterization (Graduate School of Engineering, Osaka Prefecture University) HAYASHI, Akitoshi; ○SHIGENO, Manari; NAGAO, Kenji; TATSUMISAGO, Masahiro
- 2A6-10** Preparation and evaluation of microstructure controlled Al-doped Li₇La₃Zr₂O₁₂ sintered body (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; ○MATSUKI, Yuma; NOI, Kosuke; TATSUMISAGO, Masahiro
- 2A6-11** Preparation and characterization of sodium ion conductive Na₄Sn₄ glass and glass-ceramic electrolytes (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; ○MASUZAWA, Naoki; TSUJI, Fumika; TANIBATA, Naoto; TATSUMISAGO, Masahiro
- 2A6-12** LaGaO₃ oxide thin film prepared with a dip-coating method (I₂CNER, Kyushu Univ.) ○MINAMI, Eisuke; ONITA, Keigo; IDA, Shintaro; ISHIIHARA, Tatsumi
- 2A6-13** Electrocatalytic Activity of Au Core-AuPt Alloy Shell Nanoparticle Monolayer via Ionic Liquid/Metal Sputtering for Methanol Oxidation (Grad. Sch. Eng., Nagoya Univ.) ○SUGIOKA, Daisuke; KAMEYAMA, Tatsuya; KUWABATA, Susumu; TORIMOTO, Tsukasa

Friday, March 17, PM

Fuel Production

Chair: CHIKU, Masanobu (13 : 40~14 : 20)

- * 13:30-13:40: interval for laptop PC connection.(2A6-29, 2A6-30, 2A6-31)
- 2A6-29** Photo electrochemical water splitting using TiO₂ nanotube/RuO_x/

WO_x (JAIST) ○HIRATA, Yuta; VEDARAJAN, Raman; MATSUMI, Noriyoshi

- 2A6-30** Syngas production by H₂O-CO₂ co-electrolysis using La_{0.9}Sr_{0.1}-Ga_{0.8}Mg_{0.2}O₃ electrolyte (I₂CNER, Kyushu Univ.) ○KUSABA, Hajime; WU, Kuan-ting; IDA, Shintaro; ISHIIHARA, Tatsumi
- 2A6-31*** Development of one-step synthesis of nanoporous Ni electrode for hydrogen evolution reaction (WPI-AIMR, Tohoku Univ.) ○ITO, Yoshikazu; IZUMI, Masahiko; HOJO, Daisuke; WAKISAKA, Mitsuru; AIDA, Tsutomu; ADSCHIRI, Tadafumi

Fuel Cells

Chair: ITO, Yoshikazu (14 : 30~15 : 20)

- * 14:20-14:30: interval for laptop PC connection.(2A6-34, 2A6-35, 2A6-37)
- 2A6-34** Highly porous nitrogen-doped carbon nanospheres-supported Pt with high oxygen reduction activity for metal-air batteries and fuel cells (Adv. Mater. Dev. Sec., Tokyo Metropolitan Ind. Tech. Res. Inst.) ○TACHIBANA, Naoki; IKEDA, Saori; YUKAWA, Yasuyuki; SOMEKAWA, Shoichi; KAWAGUCHI, Masahiro
- 2A6-35**** Fabrication and characterization of a robust octahedral PtNi_x/C electrocatalyst with remarkable performance and durability for oxygen reduction reactions (Innovation Res. Ctr. for Fuel Cells, The Univ. of Electro-Communications) ○ZHAO, Xiao; TAKAO, Shinobu; HIGASHI, Kotaro; KANEKO, Takuma; SAMJESKE, Gabor; SEKIZAWA, Oki; SAKATA, Tomohiro; YOSHIDA, Yoshiki; URUGA, Tomoya; IWASAWA, Yasuhiro
- 2A6-37**** Key factors for promotion of oxygen reduction reaction activity of Pt/C in PEFC studied by electrochemical and in situ time-resolved XAFS methods (Innovation Res. Ctr. for Fuel Cells, The Univ. of Electro-Communications) ○SAMJESKE, Gabor; HIGASHI, Kotaro; TAKAO, Shinobu; SEKIZAWA, Oki; KANEKO, Takuma; YOSHIDA, Yusuke; SAKATA, Tomohiro; URUGA, Tomoya; IWASAWA, Yasuhiro

Capacitors

Chair: HAYASHI, Akitoshi (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(2A6-40, 2A6-41, 2A6-43, 2A6-45)
- 2A6-40** Synthesis and electrochemical properties of all graphene oxide electrochemical devices (Fac. Adv. Sci. Tech., Kumamoto Univ.) ○OGATA, Chikako; KUROGI, Ruriko; HATAKEYAMA, Kazuto; KOINUMA, Michio; MATSUMOTO, Yasumichi
- 2A6-41*** Development of High and Controllable Power Type Flow Battery (Grad. Sch. Eng., Utsunomiya Univ.) ○YOSHIIHARA, Sachio; WAKUDA, Shunsuke

Secondary Battery

- 2A6-43**** Covalent Organic Framework-graft-Polysulfide: A Novel Cathode Material for High-Performance Lithium-Sulfur Batteries (RCMS, Nagoya Univ.) ○WU, Yang; ZHANG, Zhongyue; AWAGA, Kunio
- 2A6-45** Fabrication of Amorphous Molybdenum Trioxide Positive Electrodes and its Application for Rechargeable Aluminum Batteries (Sch. Eng., Osaka Pref. Univ.) ○TIAN, Yihan; HIGUCHI, Eiji; CHIKU, Masanobu; INOUE, Hiroshi

Chair: YOSHIIHARA, Sachio (16 : 40~17 : 30)

- * 16:30-16:40: interval for laptop PC connection.(2A6-47, 2A6-48, 2A6-49, 2A6-50, 2A6-51)
- 2A6-47** Decomposition of cyclic carbonates on cathodes of lithium-ion batteries (Fac. Sci., Kyushu Univ.) ○FUJITOMO, Chisaki; MURAYAMA, Haruno; YAMAMOTO, Eiji; TOKUNAGA, Makoto
- 2A6-48** Mechanochemical synthesis and evaluation of amorphous 60LiCoO₂ 20Li₂MnO₃ 20Li₂SO₄ positive electrode active materials (Graduate School of Engineering, Osaka Prefecture University) HAYASHI, Akitoshi; ○NAGATA, Yuka; NAGAO, Kenji; TATSUMISAGO, Masahiro
- 2A6-49** Effects of operating temperatures on Li dissolution/deposition process between Li₃PS₄ solid electrolyte and Li metal negative electrode. (Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; ○SUYAMA, Motoshi; KATO, Atsutaka; TATSUMISAGO, Masahiro
- 2A6-50** Preparation of amorphous Li₃VS₄ positive electrodes by mechanical milling and their application to all-solid-state lithium batteries. (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; ○KISHI, Takuma; HAKARI, Takashi; TATSUMISAGO, Masahiro
- 2A6-51** Preparation of 80LiCoO₂ 20Li₂SO₄ amorphous thin film electrodes by pulsed laser deposition (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; ○NISHIMURA, Masaki; ITO, Yusuke; TATSUMISAGO, Masahiro

Saturday, March 18, AM

Photochemistry and Photoelectrochemistry

Chair: KUBO, Takaya (9 : 00 ~ 10 : 10)

- * 8:50-9:00: interval for laptop PC connection.(3A6-01, 3A6-02, 3A6-04,

3A6-05, 3A6-06, 3A6-07)

- 3A6-01** Photoinduced electron transfer between two cationic species on clay nano-sheet (Grad. Sch. Urban Environmental Sci., TMU) ○KUMASAKA, Mitsuhiro; OHTANI, Yuta; SHIMADA, Tetsuya; TAKAGI, Shinsuke
- 3A6-02**[#] Development of a hybrid photoelectrochemical cell consisting of molecular and semiconductor photocatalysts for visible-light-driven CO₂ reduction using water as a reductant (Sch. Sci., Tokyo Tech.) ○KUMAGAI, Hiromu; SAHARA, Go; MAEDA, Kazuhiko; HIGASHI, Masanobu; ABE, Ryu; ISHITANI, Osamu
- 3A6-04** Sunlight-driven photoelectrochemical methylcyclohexane production using a membrane-photocathode assembly consisting of particulate solid solution of ZnSe and Cu(In,Ga)Se₂ (Grad. Sch. Eng., The Univ. of Tokyo) ○KAGESHIMA, Yosuke; GOTO, Yosuke; SUGISAKI, Sho; KANEKO, Hiroyuki; MINEGISHI, Tsutomu; DOMEN, Kazunari
- 3A6-05**[#] Photoelectrochemical Visible Light Zero Bias Hydrogen Generation with Membrane-Based Cells Designed for Decreasing Overall Water Electrolysis Voltage and Water Dissociation (14) (Chem. Course, Dep. Chem. & Biochem., Fukushima College, NIT) MATSUDA, Honoka; USUI, Sayuri; SAKASHITA, Wakana; KATO, Ryoko; ENDO, Haruka; SATO, Masataka; ○SAKAMAKI, Kenji
- 3A6-06**[#] Visible light-induced water splitting with rhodanine containing dibenzo-BODIPY (Grad. Sch. Urban Environmental Sci., TMU; ReHES; Nippon Kayaku Co. Ltd.) ○SURYANI, Okta; HIGASHINO, Yuta; MULYANA, Yan Jacob; KUBO, Yuji; SHIGAKI, Koichiro; KANEKO, Masayoshi
- 3A6-07** Water splitting using three-dimensional plasmonic photoanode with TiO₂ nanotubes (RIES, Hokkaido Univ.) ○TAKAKURA, Ryohei; OSHIKIRI, Tomoya; UENO, Kosei; KONDO, Toshiaki; MASUDA, Hideki; MISAWA, Hiroaki

Photoelectrochemistry and Solar Cells

Chair: TAKAGI, Shinsuke (10 : 20~11 : 30)

- * 10:10-10:20: interval for laptop PC connection.(3A6-09, 3A6-10, 3A6-12, 3A6-14, 3A6-15)
- 3A6-09**[#] Plasmon-induced photocurrent generation using a photoelectrode composed of gold nanoparticles loaded inverse TiO₂ photonic crystals (RIES, Hokkaido Univ.) ○YANG, Xiaolong; SHI, Xu; OSHIKIRI, Tomoya; UENO, Kosei; GAO, Shuyan; MISAWA, Hiroaki
- 3A6-10**[#] Silicon porphyrins for electrochemical water activation (Cent. Artificial Photosynthesis, TMU) ○REMELLO, Sebastian Nybin; KUTTASSERY, Fazalurahman; HIRANO, Takehiro; YAMAMOTO, Daisuke; ONUKI, Satomi; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo
- 3A6-12**[#] Quantum dot size dependent photovoltaic characteristics of PbS quantum dot/ZnO nanowire solar cells (RCAST, The Univ. of Tokyo; Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○WANG, Haibin; NAKAZAKI, Jotaro; KUBO, Takaya; SEGAWA, Hiroshi
- 3A6-14** Improving Solar Energy Conversion Efficiency of Quantum Dot-Sensitized Solar Cells Fabricated with ZnS-AgInS₂ Solid Solution Nanoparticles (Grad. Sch. Eng., Nagoya Univ.) ○KUMAZAWA, Eisaku; KAMEYAMA, Tatsuya; KUWABATA, Susumu; TORIMOTO, Tsukasa
- 3A6-15** Synthesis of Porphyrin Sensitizer with Hydroxamic Acid as a Robust Anchoring Group for Dye-Sensitized Solar Cells (Grad. Sch. Eng., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○KURUMISAWA, Yuma; HIGASHINO, Tomohiro; IMAHORI, Hiroshi

Saturday, March 18, PM

Dye-Sensitized Solar Cells

Chair: WADA, Yuji (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(3A6-29, 3A6-30, 3A6-31, 3A6-32, 3A6-34)
- 3A6-29** Synthesis of Porphyrin Sensitizers with Triethoxysilyl Anchoring Group for Dye-Sensitized Solar Cells (Grad. Sch. Eng., Kyoto Univ.) ○NIMURA, Shimpei; HIGASHINO, Tomohiro; IMAHORI, Hiroshi
- 3A6-30** A Novel Synthetic Push-Pull Type Bacteriochlorin and Its Application to Dye-Sensitized Solar Cells (Grad. Sch. Eng., Kyoto Univ.) ○TSUJI, Yukihiko; HIGASHINO, Tomohiro; FUJIMORI, Yamato; SUGIURA, Kenichi; IMAHORI, Hiroshi
- 3A6-31** A Push-Pull Porphyrin Dimer with Multiple Electron-donating Groups for Dye-Sensitized Solar Cells (Grad. Sch. Eng., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○HIGASHINO, Tomohiro; SUGIURA, Kenichi; TSUJI, Yukihiko; NIMURA, Shimpei; IMAHORI, Hiroshi
- 3A6-32**^{*} Studies on dye-sensitized solar cells of anthocyanins, their adsorption on TiO₂ and efficiency (Grad. Sch. Info. Sci., Nagoya Univ.) ○KIMURA, Yuki; MAEDA, Takeshi; IUCHI, Satoru; KOGA, Nobuaki; MURATA, Yasujiro; WAKAMIYA, Atsushi; YOSHIDA, Kumi
- 3A6-34** Porous Spacer Layer for Dye-sensitized Solar Cells (Sumitomo Osaka Cement Company, Limited) ○YAKUBO, Teppei

Chair: HIGASHINO, Tomohiro (14 : 50~15 : 40)

- * 14:40-14:50: interval for laptop PC connection.(3A6-36, 3A6-37, 3A6-38, 3A6-39)

- 3A6-36**[#] Deep blue asymmetrical dyes: counterion-specific adsorption and integration in dye-sensitized solar cells (Grad. Sch. Sci., Osaka Pref. Univ.) ○HARLE, Jean-baptiste; FUJIWARA, Hideki; NGUYEN, Van Tay; MAEDA, Takeshi; NAKAZUMI, Hiroyuki
- 3A6-37** Dye-sensitized solar cells using novel (D-π)₂-Ph-A type dyes (Grad. Sch. Sci., Rikkyo Univ.) ○NAKAGOME, Yushiro; INOUE, Shota; KOBAYASHI, Kenji; MITSUI, Masaaki
- 3A6-38** Dye-sensitized solar cells using a phosphonium-type ionic liquid modified-TiO₂ electrode (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○MATSUNAGA, Ayaka; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki
- 3A6-39**^{*} Development of wideband hybrid solar cells employing spin-inversion transitions (RCAST, The Univ. of Tokyo) ○KINOSHITA, Takumi; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi

Perovskite Solar Cells

Chair: UCHIDA, Satoshi (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3A6-42, 3A6-43, 3A6-44, 3A6-46)
- 3A6-42** Application of compact layer with ordered crystalline orientation prepared by titania nanoparticles into perovskite solar cells (Grad. Sch. Sci., Eng., Tokyo Tech.) ○TAKUSARI, Mitsuyoshi; MAITANI, Masato; TSUBAKI, Syuntaro; SEGAWA, Hiroshi; WADA, Yuji
- 3A6-43** Application of microwaves to film crystallization process for perovskite solar cells (Grad. Sch. Sci., Eng., Tokyo Tech.) ○ISO, Daikichi; MAITANI, Masato; TSUBAKI, Syuntaro; SEGAWA, Hiroshi; WADA, Yuji
- 3A6-44**[#] Cobalt Oxide (CoO_x) as an Efficient Hole-extracting Layer for High performance Inverted Planar Perovskite Solar Cells (RIES, Hokkaido Univ.) ○SHALAN, Ahmed Esmail; OSHIKIRI, Tomoya; NARRA, Sudhakar; ELSHANAWANY, Mahmoud M.; UENO, Kosei; WU, Hui-ping; NAKAMURA, Keisuke; SHI, Xu; DIAU, Eric Wei-guang; MISAWA, Hiroaki
- 3A6-46**^{*} Development of performance evaluation method for Perovskite solar cell. (KAST) ○SAITO, Hidenori; AOKI, Daisuke; MAGAINO, Shinichi; TAKAGI, Katsuhiko

Chair: SUZUKI, Mitsuharu (17 : 00~17 : 50)

- * 16:50-17:00: interval for laptop PC connection.(3A6-49, 3A6-51, 3A6-52, 3A6-53)
- 3A6-49**^{*} Structures and Electronic Properties of the Heterojunction Films Constituting the Organometal Halide Perovskite Solar Cells (Fac. Bio., Hosei Univ.) ○OGATA, Hironori; TAKEUCHI, Takamasa; KIUCHI, Hiroya; ENYAMA, Ryuji; TAKANO, Naoka
- 3A6-51** Fabrication of Highly Efficient Perovskite Solar Cells Using Highly Purified Key Precursor Material (ICR, Kyoto Univ.) ○OZAKI, Masashi; SHIMAZAKI, Ai; MINA, Jung; NAKAIKE, Yumi; MARUYAMA, Naoki; AHAREN, Tomoko; ALWANI, Rafieh; SASAMORI, Takahiro; TOKITOH, Norihiro; WAKAMIYA, Atsushi; MURATA, Yasujiro
- 3A6-52**[#] Two-Dimensionally Expanded Hole-Transporting Materials Based on Azulene Core for Efficient Perovskite Solar Cells: Effects of Lengths of Alkoxy Chains (ICR, Kyoto Univ.) ○LEE, Jaehyun; JUNG, Mina; OZAKI, Masashi; SHIMAZAKI, Ai; NISHIMURA, Hidetaka; WAKAMIYA, Atsushi; MURATA, Yasujiro
- 3A6-53**^{*} Development of Light Transmissive Photovoltaic Solar Cell for Greenhouse Application (ICR, Kyoto Univ.) ○JUNG, Mina; OZAKI, Masashi; SHIMAZAKI, Ai; NAKAMURA, Tomoya; YAKUMARU, Shinya; WAKAMIYA, Atsushi; MURATA, Yasujiro

Organic Solar Cells

Chair: OGATA, Hironori (18 : 00~18 : 50)

- * 17:50-18:00: interval for laptop PC connection.(3A6-55, 3A6-56, 3A6-58, 3A6-59)
- 3A6-55** Synthesis of Tethered Fullerene Bis-adducts and Their Application to Polymer Solar Cells (Grad. Sch. Eng., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○TAKAHARA, Shogo; UMEYAMA, Tomokazu; IMAHORI, Hiroshi
- 3A6-56**[#] Substituent impact on the open-circuit voltage in organic solar cells prepared through a photoprecursor approach (Grad. Sch. Mat. Sci., NAIST) ○SUZUKI, Mitsuharu; TERAJ, Kengo; ARATANI, Naoki; YAMADA, Hiroko
- 3A6-58** α-Diketone-type photoprecursors of molecular p-type semiconductors having anthrathiophene moieties: Application in organic photovoltaics and evaluation of substituent impact (Grad. Sch. Mat. Sci., NAIST) ○NAGAMI, Naoto; TERAJ, Kengo; TAKAHARA, Katsuya; SUZUKI, Mitsuharu; NAKAYAMA, Ken-ichi; YAMADA, Hiroko
- 3A6-59** Development of photoreactive fullerene derivatives toward solution processing of multi-layer organic thin films for photovoltaic applications (Grad. Sch. Mat. Sci., NAIST) ○KAWAJIRI, Kazuki; YAMATO, Masaki; TERAJ, Kengo; SUZUKI, Mitsuharu; NAKAYAMA, Ken-ichi; YAMADA, Hiroko

Room A7

Fourth Building, Section A J423

Theoretical Chemistry, Chemoinformatics,
and Computational Chemistry

Thursday, March 16, AM

Electronic Structure

Chair: KOBAYASHI, Masato (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1A7-01, 1A7-02, 1A7-03, 1A7-04, 1A7-05)

- 1A7-01** Computation of Second-Order Derivatives with Fractional Occupation Numbers (FIFC, Kyoto Univ.; Grad. Sch. Sci., Nagoya Univ.) ○NISHIMOTO, Yoshio; IRLE, Stephan
- 1A7-02** Development of Two-Component Relativistic Density Functional Theory: Picture Change Correction (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○OYAMA, Takuro; IKABATA, Yasuhiro; NAKAI, Hiromi
- 1A7-03** Development of Two-Component Relativistic Density Functional Theory: Noncollinear Treatment (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○HIRAGA, Kenta; IKABATA, Yasuhiro; NAKAI, Hiromi
- 1A7-04** Development of kinetic energy functional via machine learning (Sch. Advanced Sci. Eng., Waseda Univ.) ○KAGEYAMA, Ryo; FUJINAMI, Mikito; SEINO, Junji; NAKAI, Hiromi
- 1A7-05**** Density matrix renormalization group on the MOLCAS program package: Implementation and practical applications (Grad. Sch. Sci. Eng., TMU) ○NAKATANI, Naoki

Chair: NAKATANI, Naoki (10 : 10 ~ 11 : 00)

* 10:00-10:10: interval for laptop PC connection.(1A7-08, 1A7-10, 1A7-11, 1A7-12)

- 1A7-08*** Towards full-CI calculations of open shell systems on quantum computers: A polynomial-time quantum algorithm to construct configuration state functions (Grad. Sch. Sci., Osaka City Univ.) ○SUGISAKI, Kenji; YAMAMOTO, Satoru; NAKAZAWA, Shigeaki; TOYOTA, Kazuo; SATO, Kazunobu; SHIOMI, Daisuke; TAKUI, Takeji
- 1A7-10** Computational Method of Binding Energies of Metal Cations Based on the Frozen Core Potential Method (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○IWANADE, Toru; IKABATA, Yasuhiro; NAKAI, Hiromi
- 1A7-11** Automatic error control in divide-and-conquer large-scale quantum chemical calculation (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○FUJIMORI, Toshikazu; KOBAYASHI, Masato; TAKETSUGU, Tetsuya
- 1A7-12** Electronic structure method for large strongly correlated systems by combining divide-and-conquer and Hartree-Fock-Bogoliubov methods: A application to graphene nanoribbons (Sch. Sci., Hokkaido Univ.) ○KODAMA, Ryosuke; KOBAYASHI, Masato; TAKETSUGU, Tetsuya

Chair: TAKETSUGU, Tetsuya (11 : 10 ~ 12 : 10)

* 11:00-11:10: interval for laptop PC connection.(1A7-14, 1A7-15, 1A7-17, 1A7-18)

- 1A7-14** Theoretical calculation of the transition dipole moment functions and absorption spectra for some lower valence excited states of I₂ molecule. (Grad. Sch. Sci. Tech., Keio Univ.) ○INOUE, Tomohiro; YABUSHITA, Satoshi
- 1A7-15*** Molecular orbital calculation of NMR spectrums by using optimized basis functions (MO BASICS Research) ○NAKAGAWA, Katsumi
- 1A7-17** Analysis of the Changes in the Molecular Vibrational Frequencies and NMR Chemical Shifts of Peptide Occurring upon Hydration and Other Types of Solvation (Fac. Edu., Shizuoka Univ.) ○TORII, Hajime
- 1A7-18**** Theoretical study on the non-statistical F₁/F₂ rotational fine-structure level distributions of CN fragments derived from A-band ICN photodissociation (Fac. Sci. Tech., Keio Univ.) ○KASHIMURA, Tatsuhiko; IKEZAKI, Tomoya; OHTA, Yusuke; YABUSHITA, Satoshi

Thursday, March 16, PM

Chair: YABUSHITA, Satoshi (13 : 30 ~ 14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1A7-28, 1A7-30, 1A7-32)

- 1A7-28**** Development and applications of integral equation theory for excited state calculation in solution (WPI-ITbM, Nagoya Univ.) ○DAISUKE, Yokogawa; NAOTO, Inai; KAYO, Suda; IRLE, Stephan
- 1A7-30**** Theoretical study on the effect of applying external static electric field on nonlinear optical properties of π -stacking radical multimers (Sch. Eng. Sci., Osaka Univ.) ○MATSUI, Hiroshi; WATANABE, Koki; NAGAMI, Takanori; TAKAMUKU, Shota; KITAGAWA, Yasutaka; NAKANO, Masayoshi
- 1A7-32**** Theoretical study on the electronic structures and stability of metal encapsulated C₈₀ fullerenes (Grad. Sch. Sci. Eng., TMU) ○VELLOTH, Archana; IMAMURA, Yutaka; KODAMA, Takeshi; HADA, Masahiko

Dynamics

Chair: NAKANO, Masayoshi (14 : 40 ~ 15 : 30)

* 14:30-14:40: interval for laptop PC connection.(1A7-35, 1A7-37, 1A7-38, 1A7-39)

- 1A7-35**** Quantum chemical investigation of the mechanism of ion conduction in covalent organic frameworks (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; Sch. Mat. Sci., JAIST) ○HAYASHI, Taku; HIJIKATA, Yuh; JIANG, Donglin; IRLE, Stephan
- 1A7-37** Simulation of Coulomb explosion imaging of I-containing molecules using intense XFELs (Sch. Sci., Tohoku Univ.) ○OCHIAI, Kohei; NAKAMURA, Kosuke; TAKAHASHI, Yusuke; KANNO, Manabu; TAKANASHI, Tsukasa; FUKUZAWA, Hironobu; TONO, Kensuke; NAGAYA, Kiyonobu; UEDA, Kiyoshi; KONO, Hirohiko
- 1A7-38** Simulation of the strand breaks in small DNAs (Sch. Sci., Tohoku Univ.) ○OKADA, Tomohiko; OIKAWA, Keita; HISHINUMA, Naoki; KNANO, Manabu; KINO, Yasushi; AKIYAMA, Kimio; KONO, Hirohiko

Mathematical Chemistry

- 1A7-39** DFT calculations of conformation-modulated intermolecular interactions: Effect of BSSE and dispersion force on conformational energies (Grad. Sch. Eng., Tottori Univ.) ○HAYASE, Shuichi; NOKAMI, Toshiki; ITOH, Toshiyuki

Chemical Reaction

Chair: KANNO, Manabu (15 : 40 ~ 16 : 30)

* 15:30-15:40: interval for laptop PC connection.(1A7-41, 1A7-42, 1A7-44)

- 1A7-41** Elucidation of SiCl₂ reactions at Si(100) surfaces by quantum chemical calculations (Sch. Creative Sci. Eng., Waseda Univ.) ○HAGINO, Sho; KUNIOSHI, Nilson; FUWA, Akio
- 1A7-42*** Analysis on the tacticity of poly(methyl methacrylate) by radical elongation simulations based on density functional theory calculations (Grad. Sch. Info. Sci., Nagoya Univ.; CREST, JST; ESICB, Kyoto Univ.) ○TAKAYANAGI, Masayoshi; MATSUMOTO, Kentaro; NAGAOKA, Masataka
- 1A7-44**** Finding the key to determine the luminescent characteristics from the database of the quenching pathways of lanthanide luminescent materials (Fac. Sci. Eng., Kindai Univ.; PRESTO, JST) ○HATANAKA, Miho

Chair: HATANAKA, Miho (16 : 40 ~ 17 : 30)

* 16:30-16:40: interval for laptop PC connection.(1A7-47, 1A7-49, 1A7-50)

- 1A7-47*** Acceleration of automatic reaction path search using rate constant matrix contraction: Application to multi-component reactions (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○SUMIYA, Yosuke; TAKETSUGU, Tetsuya; MAEDA, Satoshi
- 1A7-49** Automated Exploration of Decomposition and Generation Processes of High-Energy Reserving New-type Carbon Prism-C16. (Grad. Sch. Sci., Tohoku Univ.) ○OHNO, Koichi
- 1A7-50*** Exploration of carbon dioxide crystals by using Generalized Scaled Hypersphere Search method with multiplier method (Grad. Sch. Sys. Eng., Wakayama Univ.) ○KODAYA, Yoshitomo; YAMAKADO, Hideo; OHNO, Koichi

Friday, March 17, PM

Electronic Structure

Chair: KATOUDA, Michio (13 : 10 ~ 14 : 30)

* 13:00-13:10: interval for laptop PC connection.(2A7-26, 2A7-27, 2A7-28, 2A7-29, 2A7-30)

- 2A7-26** CO Oxidation reaction on La₂O₃-Supported metal nanoparticle (Fac. Eng., The Univ. of Tokyo) ○IWATA, Rihito; USHIYAMA, Hiroshi; YAMASHITA, Koichi
- 2A7-27** Theoretical analysis of H/D isotope effect on positron affinity of polyatomic molecules (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○URAKAWA, Umihito; KITA, Yukiumi; TACHIKAWA, Masanori
- 2A7-28** First principles calculation of Nickel Hydroxide (RIKEN ACCC; RIKEN RINC; Grad. Sch. Biosci. Biotech., Tokyo Tech.) ○SAKAMOTO, Yuki; NAKAMURA, Shinichiro
- 2A7-29** Tuned CAM-B3LYP functional for excited-state calculations of organic photovoltaics (Fac. Eng., The Univ. of Tokyo) ○TERAO, Hitoshi; FUJII, Mikiya; YAMASHITA, Koichi
- 2A7-30** Quantum chemical study of multi-electron transfer on Keggin-type polyoxometalates: the relation of redox potentials to the bond valence (Grad. Sch. Sci., Kobe Univ.; RIKEN AICS) ○TAKAZAKI, Aki; EDA, Kazuo; OOSAKAI, Toshiyuki; NAKAZIMA, Takahito

Simulation

Chair: OKUMURA, Mitutaka (14 : 10 ~ 15 : 10)

* 14:00-14:10: interval for laptop PC connection.(2A7-32, 2A7-34, 2A7-36, 2A7-37)

- 2A7-32**** An active site opening mechanism in ion pair of (pyridylamide)Hf(IV) catalyst: An associative mechanism (Grad. Sch. Info. Sci., Nagoya Univ.)
○MATSUMOTO, Kentaro; KARAKKADPARAMBIL SANKARAN, Sandhya; TAKAYANAGI, Masayoshi; KOGA, Nobuaki; NAGAOKA, Masataka
- 2A7-34**** Linear-scaling quantum mechanical molecular dynamics simulations with divide-and-conquer density-functional tight-binding method (RISE, Waseda Univ.) ○NISHIMURA, Yoshifumi; SAKTI, Aditya Wibawa; NAKAI, Hiromi
- 2A7-36** Theoretical studies on the insertion process of K-ions into graphite (Fac. Eng., The Univ. of Tokyo) ○HIRAI, Hisato; YAMASHITA, Koichi
- 2A7-37** Analysis of the chlorination reaction mechanism by the quantum chemical calculation. (Sch. Creative Sci. Eng., Waseda Univ.) ○FUJIMURA, Yoshiki; KUNIOSHI, Nilson

Chair: TACHIKAWA, Masanori (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(2A7-39, 2A7-40, 2A7-41, 2A7-42, 2A7-43, 2A7-44)
- 2A7-39** Molecular-level analysis of the physisorption on solid-liquid interface through all-atom molecular dynamics simulation (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAKAKUKI, Ipepi; ISHIZUKA, Ryosuke; MATUBAYASI, Nobuyuki
- 2A7-40** Automatic free energy reaction path sampling with umbrella integration (Osaka Univ.) ○MITSUTA, Yuki; YAMANAKA, Shusuke; KAWAKAMI, Takashi; OKUMURA, Mitsutaka
- 2A7-41** Energetic analysis of internal waters in protein using MD simulation (Grad. Sch. Eng. Sci., Osaka Univ.) ○MAEDA, Shu; YAMAMORI, Yu; ISHIZUKA, Ryosuke; MATUBAYASI, Nobuyuki

Bio

- 2A7-42** Molecular dynamics study of the structural fluctuation of CDR-H3 of anti-HIV neutralizing antibody PG16 (Grad. Sch. Info. Sci., Hiroshima City Univ.) ○KIRIBAYASHI, Ryo; KONDO, Hiroko; KURODA, Daisuke; SAITO, Toru; KOHDA, Jiro; KUGIMIYA, Akimitsu; NAKANO, Yasuhisa; TAKANO, Yu
- 2A7-43** Interaction-component analysis of the driving force for structural formation of protein (Grad. Sch. Eng. Sci., Osaka Univ.) ○TOKUNAGA, Yoshihiko; MATUBAYASI, Nobuyuki; ISHIZUKA, Ryosuke; YAMAMORI, Yu
- 2A7-44** A molecular dynamics study on the formation process of antigen-antibody complex (RCAST, The Univ. of Tokyo) ○YAMASHITA, Takefumi; TAKAMATSU, Yuichiro

Materials

Chair: MATUBAYASI, Nobuyuki (16 : 30~17 : 40)

- * 16:20-16:30: interval for laptop PC connection.(2A7-46, 2A7-47, 2A7-49, 2A7-50, 2A7-51)
- 2A7-46** Molecular dynamics simulation of self-organization of carbazole dendrimers (RIKEN AICS) ○KATOUDA, Michio; MOTOMICHI, Tashiro; IMAMURA, Yutaka; NAKAJIMA, Sae; YAMAMOTO, Yohei; ALBRECHT, Ken; YAMAMOTO, Kimihisa
- 2A7-47**** Creating a Technetium-like alloy by DOS engineering: A DFT study (IFRC, Kyushu Univ.) ○XIE, Wei; ISHIMOTO, Takayoshi; KOYAMA, Michihisa
- 2A7-49** Computational study about orbital levels and charge transfer states of non-fullerene organic solar cells (Fac. Eng., The Univ. of Tokyo) ○TANAKA, Kento; FUJII, Mikiya; YAMASHITA, Koichi
- 2A7-50** Theoretical study for the rotational motion of the organic cation in perovskite solar cells (Grad. Sch. Sci. Eng., TMU) ○KANNO, Shohei; IMAMURA, Yutaka; SAEKI, Akinori; HADA, Masahiko
- 2A7-51*** Search for novel photovoltaics materials by computational science (Grad. Sch. Sci. Eng., TMU) ○IMAMURA, Yutaka; TASHIRO, Motomichi; KATOUDA, Michio; HADA, Masahiko

Room A8

Fourth Building, Section A J424

Catalysts and Catalysis

Thursday, March 16, PM

Chair: YAMAMOTO, Akira (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(1A8-26, 1A8-27, 1A8-28, 1A8-30, 1A8-31)
- 1A8-26** Solar-to-hydrogen peroxide conversion on resorcinol-formaldehyde resin photocatalysts (RCSE, Osaka Univ.) ○MORI, Shinnosuke; KOFUJI, Yusuke; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 1A8-27** Visible Light-Driven Ammonia Production from Water and Dinitrogen on Phosphorus-Doped Carbon Nitride Photocatalyst (RCSE, Osaka

- Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○SHIOTA, Shingo; HIRAKAWA, Hiroaki; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 1A8-28**** Sunlight-driven hydrogen peroxide production from water and dioxygen by carbon nitride-based photocatalysts (RCSE, Osaka Univ.) ○KOFUJI, Yusuke; ISOBE, Yuki; OHKITA, Satoshi; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 1A8-30** Deoxygenation of epoxides by using organically modified TiO₂ having metal co-catalyst. (Fac. Sci. Eng., Kindai Univ.) ○TAKEHISA, Takanori; TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 1A8-31** Design of Organic Peroxide Generation with Metal-supported Photocatalyst (Fac. Sci. Technol., TUS) ○IWASAKI, Kodai; YAMAGUCHI, Yuichi; CHIKAMORI, Noriyasu; TERASHIMA, Chiaki; KATSUMATA, Kenichi; SUZUKI, Norihiro; SAKAI, Hideki; FUJISHIMA, Akira; NAKATA, Kazuya

Chair: YAMAZAKI, Suzuko (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(1A8-33, 1A8-34, 1A8-35, 1A8-36, 1A8-37, 1A8-38)
- 1A8-33** Selective oxidation of alcohols over copper plasmonic photocatalyst (Fac. Sci. Eng., Kindai Univ.) ○OKABAYASHI, Kohki; TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 1A8-34** Selective oxidation of alcohols over silver plasmonic photocatalyst under irradiation of visible light (Fac. Sci. Eng., Kindai Univ.) ○NAGAI, Takumi; TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 1A8-35** Synthesis and Application to Solar Chemical Conversion of A Plasmonic Photocatalyst Consisting of Gold Nanoparticle-Titanium Dioxide-Copper Oxide Cluster (Grad. Sch. Sci. Eng., Kindai Univ.; Env. Res. Lab., Kindai Univ.) ○AKASHI, Ryo; NAYA, Shin-ichi; TADA, Hiroaki
- 1A8-36** Preparation of Au(core)-CdS(shell) Composite Nanoparticle-Loaded Mesoporous TiO₂ Film and the Application to Photoelectrochemical Cell for Solar Hydrogen Generation (Grad. Sch. Sci. Eng., Kindai Univ.) ○IKEDA, Takuya; FUJISHIMA, Musashi; TADA, Hiroaki
- 1A8-37** Novel Photocatalysts for H₂ Evolution by Forming Solid Solutions between ZnGa₂S₄ and Copper(I) Halides and Their Photoelectrochemical Properties (Fac. Sci., TUS) ○UCHIDA, Jun; TAKAYAMA, Tomoaki; IWASE, Akihiko; KUDO, Akihiko
- 1A8-38** Effects of surface modification with metal oxides on hydrogen evolution over metal sulfide photocatalysts (Fac. Sci., TUS) ○YOSHINO, Shunya; IWASE, Akihiko; KUDO, Akihiko

Chair: TANAKA, Atsuhiko (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(1A8-40, 1A8-42, 1A8-44)
- 1A8-40**** Photocatalytic Ammonia Production from Water and Nitrogen on Surface Oxygen Vacancies of Titanium Dioxide (RCSE, Osaka Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○HIRAKAWA, Hiroaki; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 1A8-42**** Factors affecting the photocatalytic activity of chromium-ion-doped titanium dioxide under visible light irradiation (Grad. Sch. Sci. Eng., Yamaguchi Univ.) ○NISHIYAMA, Naoto; YAMAZAKI, Suzuko
- 1A8-44**** Mechanisms of photoinduced charge separation at alternate stacked structure of metal oxide nanosheets (Grad. Sch. Sci., Eng., Tokyo Tech.) ○KISHIMOTO, Fuminao; MOCHIZUKI, Dai; TSUBAKI, Shuntaro; WADA, Yuji

Friday, March 17, PM

Chair: HIGASHI, Masanobu (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(2A8-26, 2A8-27, 2A8-28, 2A8-29, 2A8-30, 2A8-31)
- 2A8-26** Study on effects of back conductor materials on the water splitting activity of photocatalyst sheet consisting of SrTiO₃:La,Rh and Ta₃N₅ (Grad. Sch. Eng., The Univ. of Tokyo) ○ASAMURA, Takehiko; WANG, Qian; HISATOMI, Takashi; MINEGISHI, Tsutomu; KATAYAMA, Masao; DOMEN, Kazunari
- 2A8-27*** Effect of annealing temperatures on the physical properties and photocatalytic activity of La₅Ti₂Cu(S_{1-x}Se_x)₅O₇ (Grad. Sch. Eng., The Univ. of Tokyo) ○NANDY, Swarnava; HISATOMI, Takashi; MINEGISHI, Tsutomu; DOMEN, Kazunari
- 2A8-28** Study on effects of Al doping on the water splitting activity of La₂Ti₂O₇ and LaTiO₂N (Fac. Eng., The Univ. of Tokyo) ○NAKANISHI, Takahiro; GOTO, Yosuke; TAKATA, Tsuyoshi; HISATOMI, Takashi; KATAYAMA, Masao; MINEGISHI, Tsutomu; DOMEN, Kazunari
- 2A8-29** Effect of Al doping on the water splitting activity of Sr₂Ta₂O₇ and SrTaO₂N (Fac. Eng., The Univ. of Tokyo) ○NAITO, Rei; HISATOMI, Takashi; GOTO, Yosuke; TAKATA, Tsuyoshi; MINEGISHI, Tsutomu; KATAYAMA, Masao; DOMEN, Kazunari
- 2A8-30** Enhancement of water splitting activity of Al-doped SrTiO₃ photocatalyst by flux treatment (The Univ. of Tokyo) ○GOTO, Yosuke; WANG, Qian; HISATOMI, Takashi; ISHIKIRIYAMA, Kohki; SAKATA, Yoshihisa; KATAYAMA, Masao; TAKATA, Tsuyoshi; MINEGISHI, Tsutomu; YAMADA, Taro; DOMEN, Kazunari
- 2A8-31** Water oxidation reaction on Fe-Cr mixed oxides (Sch. Sci., Tokyo Tech.) ○KANAZAWA, Tomoki; MAEDA, Kazuhiko

Chair: YOSHIDA, Masaaki (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(2A8-33, 2A8-34, 2A8-35, 2A8-36, 2A8-37, 2A8-38)
- 2A8-33** Theoretical studies of co-catalyst effect on photocatalyst SrTiO₃. (Fac. Eng., The Univ. of Tokyo) ○TSUDA, Masatoshi; YAMASHITA, Koichi
- 2A8-34** Effects of surface modifications on the water splitting activity of perovskite-type Ta oxynitride photocatalysts (Grad. Sch. Eng., The Univ. of Tokyo) ○OKAMOTO, Hiroya; KODERA, Masanori; HISATOMI, Takashi; TAKATA, Tsuyoshi; KATAYAMA, Masao; MINEGISHI, Tsutomu; DOMEN, Kazunari
- 2A8-35** Study on synthesis method and water splitting activity of LaMg_{1/3}Nb_{2/3}O₂N (Grad. Sch. Eng., The Univ. of Tokyo) ○ISHIZUKA, Daisaku; HISATOMI, Takashi; TAKATA, Tsuyoshi; KATAYAMA, Masao; MINEGISHI, Tsutomu; DOMEN, Kazunari
- 2A8-36** Study on fabrication methods of photocatalyst sheets based on LaTiO₂N for improvement of the water splitting activity (Grad. Sch. Eng., The Univ. of Tokyo) ○YAMAMOTO, Takahiro; WANG, Qian; HISATOMI, Takashi; KATAYAMA, Masao; MINEGISHI, Tsutomu; DOMEN, Kazunari
- 2A8-37** Inducing Visible Light Response of Rutile Titanium Oxide by Nitrogen/Fluorine Codoping (Sch. Sci., Tokyo Tech.) ○MIYOSHI, Akinobu; MAEDA, Kazuhiko
- 2A8-38** Study on preparation methods of precursors for synthesis of La_{0.5}Sr_{0.5}Ta_{0.5}Ti_{0.5}O₂N photocatalyst (IMRAM, Tohoku Univ.) ○NAGAI, Shun; KATO, Hideki; KOBAYASHI, Makoto; KAKIHANA, Masato

Chair: MAEDA, Kazuhiko (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(2A8-40, 2A8-41, 2A8-42, 2A8-43, 2A8-44, 2A8-45)
- 2A8-40** Surface-modified metal sulfides as stable H₂ evolving photocatalyst in Z-scheme water splitting system with [Fe(CN)₆]^{3-/4-} redox mediator under visible light irradiation (Sch. Eng., Kyoto Univ.) ○MATSUOKA, Hikaru; HIGASHI, Masanobu; TOMITA, Osamu; ABE, Ryu
- 2A8-41** Two step water splitting systems using transition metal substituted polyoxometalates as a shuttle redox mediator (Sch. Eng., Kyoto Univ.) ○NAITO, Hiroki; TOMITA, Osamu; HIGASHI, Masanobu; ABE, Ryu
- 2A8-42** Two-step water splitting system using layered bismuth oxhyalides as oxygen-evolving photocatalysts under visible light irradiation (Grad. Sch. Eng., Kyoto Univ.) ○SUZUKI, Hajime; KUNIOKU, Hironobu; HIGASHI, Masanobu; ABE, Ryu
- 2A8-43** Synthesis of Rh-doped SrTiO₃ by spray-dry method (IMRAM, Tohoku Univ.) ○MASHIYAMA, Takahiro; KATO, Hideki; KOBAYASHI, Makoto; IWASE, Akihiko; KUDO, Akihiko; KAKIHANA, Masato
- 2A8-44** Photocatalytic Properties of Ba₂In₂O₅ Substituted with Various Elements (Fac. Sci., TUS) ○NAKAGAWA, Keita; IWASE, Akihiko; TAKAYAMA, Tomoaki; WATANABE, Kenta; KUDO, Akihiko
- 2A8-45** Development of Ag(I)- and Cu(I)-substituted photocatalysts by molten salt treatments of metal oxides with a tunneling structure (Fac. Sci., TUS) ○WATANABE, Kenta; IWASE, Akihiko; KUDO, Akihiko

Chair: IWASE, Akihiko (16 : 40~17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(2A8-47, 2A8-48, 2A8-49, 2A8-50, 2A8-51, 2A8-52)
- 2A8-47** Water oxidation using cobalt oxide modified titanates as photocatalysts under visible light (Sch. Sci., Tokyo Tech.) ○OKAZAKI, Megumi; MAEDA, Kazuhiko
- 2A8-48** Photoelectrochemical properties of CoO_x loaded TiO₂ electrodes (Sch. Sci., Tokyo Tech.) ○TANAKA, Hideyuki; MAEDA, Kazuhiko
- 2A8-49** Catalytic composites constructed inside cross-linked protein crystals for photocatalytic hydrogen evolution utilizing visible light (Grad. Sch. Eng., Osaka City Univ.; Sch. Life Sci. Tech., Tokyo Tech.) ○TAKAHASHI, Hikaru; SHIMOI, Takuya; ABE, Satoshi; UENO, Takafumi; YAMADA, Yusuke
- 2A8-50** Synthesis of highly active WO₃ photocatalysts for water oxidation via hydrothermal method with addition of alkali metal ions (Sch. Eng., Kyoto Univ.) ○OGAWA, Kanata; TOMITA, Osamu; HIGASHI, Masanobu; ABE, Ryu
- 2A8-51** Factors affecting oxygen evolution through water oxidation on TiO₂ nanorods (Fac. Sci., Yamaguchi Univ.) ○YAMAZAKI, Yukari; ASAMI, Keisuke; KATOH, Ryuzi; YAMAZAKI, Suzuki
- 2A8-52^{##}** One-pot synthesis of TiO₂/graphene nanocomposite for visible light photocatalysis based on chemical exfoliation method (Sch. Mat. Sci., JAIST) ○TON, Nhan Nu Thanh; TRINH, Dai Xuan; KATOU, Kouichiro; IKENAGA, Takuma; TANIKE, Toshiaki

Saturday, March 18, AM

Chair: MINEGISHI, Tsutomu (9 : 50 ~ 10 : 50)

- * 9:40-9:50: interval for laptop PC connection.(3A8-06, 3A8-08, 3A8-09, 3A8-10, 3A8-11)
- 3A8-06^{##}** Mechanistic Analysis of Electrocatalytic Water Oxidation by Mono-disperse 10-nm-Sized Mn Oxide Nanoparticles (RIKEN CSRS)

○HAYASHI, Toru; JIN, Kyoungsook; SEO, Hongmin; BONNET-MERCIER, Nadège; HASHIMOTO, Kazuhito; NAM, Ki Tae; NAKAMURA, Ryuhei

- 3A8-08** Observation of cobalt catalysts by operando soft X-ray absorption spectroscopy (Fac. Sci. Tech., Keio Univ.) ○YOSHIDA, Masaaki; MITSUTOMI, Yosuke; NAGASAKA, Masanari; YUZAWA, Hayato; KOSUGI, Nobuhiro; KONDOH, Hiroshi
- 3A8-09** Carrier dynamics in photocatalyst BiVO₄ single crystal studied with transient absorption microscopy (Dep. Chem., Sch. Sci., Kyoto Univ.; Fac. Sci., TUS) ○TAKEDA, Atsuhiko; NORIOKA, Shinpei; SUGIMOTO, Toshiaki; WATANABE, Kazuya; KUDO, Akihiko; MATSUMOTO, Yoshiyasu
- 3A8-10** Influence of dissolved ions on water purification performance of a TiO₂-impregnated porous silica tube (Photocatalyst Group, KAST) ○HAYASHI, Mio; OCHIAI, Tsuyoshi; TAGO, Shoko; TAWARAYAMA, Hiromasa; HOSOYA, Toshifumi; FUJISHIMA, Akira
- 3A8-11** Properties of photochemical cells using titania and cellulose films (Grad. Sch. Sci. Technol., Shinshu Univ.) TAKIZAWA, Yuki; ○NISHIKIORI, Hiromasa

Chair: TERAMURA, Kentaro (11 : 00~12 : 00)

- * 10:50-11:00: interval for laptop PC connection.(3A8-13, 3A8-14, 3A8-15, 3A8-16, 3A8-17, 3A8-18)
- 3A8-13** Optimization of electron flow to provide high voltage of 3 V in a solar cell comprising two photocatalysts (Grad. Sch. Sci., Chiba Univ.) ○YOSHIBA, Mao; TAMBA, Masayuki; KOJIMA, Takashi; IZUMI, Yasuo
- 3A8-14** Preparation of visible light responsive photoelectrodes based on silicon nanowires and their application to photoelectrochemical conversion of CO₂ (Grad. Sch. Eng., Osaka Pref. Univ.) ○TACHIBANA, Mika; MIYAZAKI, Keisuke; HORIUCHI, Yuu; MATSUOKA, Masaya
- 3A8-15[#]** Photoelectrochemical water splitting using cadmium telluride photoelectrodes (Fac. Eng., The Univ. of Tokyo) ○SU, Jin; MINEGISHI, Tsutomu; DOMEN, Kazunari
- 3A8-16** Development of Ta₃N₅ thin film photoanodes for water splitting based on carbon nanotube substrates (The Univ. of Tokyo) ○AKAGI, Daijiro; HISATOMI, Takashi; SASAKI, Yutaka; AOI, Shigeki; KATAYAMA, Masao; MINEGISHI, Tsutomu; NODA, Suguru; DOMEN, Kazunari
- 3A8-17** Study of synthesis method for La₅Ti₂Cu₅O₇ thin film photocathode by molecular beam epitaxy (Fac. Eng., The Univ. of Tokyo) ○IMAI, Kosuke; ONISHI, Atsushi; KANEKO, Hiroyuki; HISATOMI, Takashi; KATAYAMA, Masao; MINEGISHI, Tsutomu; DOMEN, Kazunari
- 3A8-18** Fabrication of cation-doped ANbO₂N (A = Sr, Ba) photoanodes for efficient photoelectrochemical water splitting under visible light irradiation (Sch. Eng., Kyoto Univ.) ○IWAI, Takafumi; HIGASHI, Masanobu; TOMITA, Osamu; ABE, Ryu

Saturday, March 18, PM

Chair: HISATOMI, Takashi (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(3A8-26, 3A8-27, 3A8-28, 3A8-29, 3A8-30, 3A8-31)
- 3A8-26** Photocatalytic conversion of CO₂ using A₂KTa₅O₁₅ (A = Sr, Ba) fabricated by a flux method (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.) ○YOSHIZAWA, Sumika; TERAMURA, Kentaro; ASAKURA, Hiroyuki; HOSOKAWA, Saburo; TANAKA, Tsunehiro
- 3A8-27[#]** Evaluation of reaction intermediate species for the photocatalytic conversion of CO₂ by H₂O over Ag/SrNb₂O₆ (Grad. Sch. Eng., Kyoto Univ.) ○PANG, Rui; TERAMURA, Kentaro; ASAKURA, Hiroyuki; HOSOKAWA, Saburo; TANAKA, Tsunehiro
- 3A8-28** Photocatalytic conversion of CO₂ by H₂O as an electron donor over rare-earth elements-modified Ga₂O₃ prepared by a hydrothermal method (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.) ○NAKATANI, Yuto; TANAKA, Tsunehiro; TERAMURA, Kentaro; HOSOKAWA, Saburo; ASAKURA, Hiroyuki
- 3A8-29** Photocatalytic conversion of CO₂ by water as an electron donor over Rh³⁺-substituted Ga₂O₃ photocatalyst (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.) ○KIKKAWA, Soichi; TERAMURA, Kentaro; ASAKURA, Hiroyuki; HOSOKAWA, Saburo; TANAKA, Tsunehiro
- 3A8-30** Photocatalytic conversion of CO₂ by water as an electron donor over layered double hydroxide-modified Ga₂O₃ (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.) ○KIDERA, Shotaro; TERAMURA, Kentaro; ASAKURA, Hiroyuki; HOSOKAWA, Saburo; TANAKA, Tsunehiro
- 3A8-31** Investigation of the reaction intermediate species in the photocatalytic reduction of CO₂ over Ag/ZnGa₂O₄/Ga₂O₃ (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.) ○HORI, Kazutaka; TERAOKA, Yosuke; TERAMURA, Kentaro; ASAKURA, Hiroyuki; HOSOKAWA, Saburo; TANAKA, Tsunehiro

Chair: KATO, Hideki (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(3A8-33, 3A8-35, 3A8-37)
- 3A8-33^{##}** Development of Metal Oxide Photocatalysts with Wide Band Gaps for Highly Selective CO₂ Reduction Using Water as an Electron Donor (Fac. Sci., TUS) ○TAKAYAMA, Tomoaki; IWASE, Akihiko; KUDO, Akihiko
- 3A8-35^{##}** Enhancement of CO evolution by praseodymium-modified Ga₂O₃ for the photocatalytic conversion of CO₂ by H₂O (Grad. Sch. Eng., Kyoto

Univ.) ○HUANG, Zeai; TERAMURA, Kentaro; ASAKURA, Hiroyuki; HOSOKAWA, Saburo; TANAKA, Tsunehiro

3A8-37* Visible-light-driven photocatalytic CO₂ reduction reaction using hybrid with an organic semiconductor and a Ru(II) binuclear complex (Sch. Sci., Tokyo Tech.) ○KURIKI, Ryo; YAMAKATA, Akira; ISHITANI, Osamu; MAEDA, Kazuhiko

Chair: HORIUCHI, Yuu (15 : 30~16 : 30)

* 15:20-15:30: interval for laptop PC connection.(3A8-40, 3A8-41, 3A8-42, 3A8-43, 3A8-44, 3A8-45)

3A8-40 Visible-light driven CO₂ reduction using a hybrid photocatalyst consisting of Ru(II)-Re(I) binuclear complex and TiO₂/C₃N₄ (Sch. Sci., Tokyo Tech.) ○WADA, Keisuke; ISHITANI, Osamu; MAEDA, Kazuhiko

3A8-41 Synthetic study of Ta₃N₅/SiO₂ loading a Ru(II) binuclear complex having the ability of visible light CO₂ reduction reaction (Sch. Sci., Tokyo Tech.) ○MURAOKA, Kanemichi; ISHITANI, Osamu; MAEDA, Kazuhiko

3A8-42 Selective Photoreduction of Carbon Dioxide into Methanol Using Layered Double Hydroxides at 0.40 MPa (Fac. Sci., Chiba Univ.) ○MIYANO, Masaya; ZHANG, Hongwei; YOSHIBA, Mao; IZUMI, Yasuo

3A8-43 Why is water more Reactive than H₂ in photocatalytic CO₂ conversion into fuels at up to 0.80 MPa? (Grad. Sch. Sci., Chiba Univ.) ○ZHANG, Hongwei; MIYANO, Masaya; YOSIBA, Mao; IZUMI, Yasuo

3A8-44* Photocatalytic reduction of CO₂ using H₂O as an electron donor over Ag-modified calcium titanate (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○ANZAI, Akihiko; FUKUO, Naoto; YAMAMOTO, Akira; YOSHIDA, Hisao

3A8-45* Photocatalytic methane dry reforming over metal loaded gallium oxide (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○ITO, Yoji; YAMAMOTO, Akira; YOSHIDA, Hisao

Chair: SHIRAIISHI, Yasuhiro (16 : 40~17 : 10)

* 16:30-16:40: interval for laptop PC connection.(3A8-47, 3A8-48, 3A8-49)

3A8-47 Selective photooxidation of aromatic hydrocarbons under visible light irradiation by using charge transfer from the adsorbates to Nb₂O₅. (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.) ○MURAKAMI, Kazuho; TAMAI, Kazuki; HOSOKAWA, Saburo; ASAKURA, Hiroyuki; TERAMURA, Kentaro; TANAKA, Tsunehiro

3A8-48 Direct cross-coupling between cyclohexane and benzene over titanium oxide photocatalyst (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○OHARA, Tomoyuki; YAMAMOTO, Akira; YOSHIDA, Hisao

3A8-49* Direct cross-coupling between cyclohexane and heteroaromatic compounds over titanium oxide photocatalyst (Fac. Integrated Human Studies, Kyoto Univ.) ○NANIWA, Shimpei; OHARA, Tomoyuki; YAMAMOTO, Akira; YOSHIDA, Hisao

Chair: SAKURAI, Hidehiro (17 : 20~18 : 10)

* 17:10-17:20: interval for laptop PC connection.(3A8-51, 3A8-52, 3A8-53, 3A8-54, 3A8-55)

3A8-51 Cross-coupling reactions catalyzed by a Pd-containing macrocycle catalyst : Effect of the cyclic structure (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○MIZUNO, Shunya; SOGAWA, Hiromitsu; AOKI, Daisuke; YAMAMOTO, Koji; TAKATA, Toshikazu

3A8-52 Synthesis of polymer-supported macrocyclic palladium catalyst (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NAMEKI, Riku; YAMAMOTO, Koji; SOGAWA, Hiromitsu; TAKATA, Toshikazu

3A8-53 Development of Supported Metal Catalysts for Oxidative Cross Coupling Reaction of Catechols and Active Methylene Compounds Using Molecular Oxygen as an Oxidant (Sch. Eng. Sci., Osaka Univ.) ○YAMAMOTO, Masanobu; MAENO, Zen; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro

3A8-54* Design of Pd@Graphene Oxide Framework nanocatalysts for Suzuki-Miyaura Cross-Coupling Reactions (Sch. Mat. Sci., JAIST) ○TRAN, Thuy Phuong Nhat; THAKUR, Ashutosh; TANIKE, Toshiaki

3A8-55 Direct C-H carboxylation of terminal alkynes with CO₂ by Ag catalysts immobilized on titania surface (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.) ○USHIO, Tomoya; TERAMURA, Kentaro; ASAKURA, Hiroyuki; HOSOKAWA, Saburo; TANAKA, Tsunehiro

Chair: MOTOKURA, Ken (18 : 20~18 : 50)

* 18:10-18:20: interval for laptop PC connection.(3A8-57, 3A8-58, 3A8-59)

3A8-57* Cycloaddition of Carbon Dioxide and Epoxides using TRIS and Halides as Dual Catalyst System (Grad. Sch. Sci., The Univ. of Tokyo) ○SARI, Laila Ambar; SASAKI, Takehiko

3A8-58 Synthesis of Glycol Diesters through Depolymerization of Polyethers Catalyzed by Proton-exchanged Montmorillonite (Grad. Sch. Eng. Sci., Osaka Univ.) ○MIDOGOCHI, Kaoru; MAENO, Zen; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro

3A8-59 Oxidation of thiol with in situ prepared bismuth nanoparticles Oxidation of thiol with in situ prepared bismuth nanoparticles (Grad. Sch. Sci., Eng., Yamagata Univ.) ○HOSHI, Yuki; MATSUMURA, Yoshimasa; OCHIAI, Bungo

Sunday, March 19, AM

Chair: ICHIKUNI, Nobuyuki (9 : 00 ~9 : 40)

* 8:50-9:00: interval for laptop PC connection.(4A8-01, 4A8-02, 4A8-03, 4A8-04)

4A8-01 Study of molecularly- and atomically-adsorbed oxygen on La_{1-x}Sr_xCoO₃ cathode surfaces of solid oxide fuel cells using TPD (Fac. Eng., Fukuoka Univ.) ○HIGUCHI, Keisuke; SUGIYAMA, Hiromi; KUBOTA, Jun

4A8-02 Influence of supports on properties of ammonia adsorption and heat generation of ruthenium catalysts for triggering ammonia oxidative decomposition from room temperature (Grad. Sch. Eng., Oita Univ.; ESICB, Kyoto Univ.; Fac. Eng., Oita Univ.) ○TASAKI, Ryo; MATSUMOTO, Suguru; SATO, Katsutoshi; NAGAOKA, Katsutoshi

4A8-03 Theoretical study for the electronic structure of NiO/Au core-shell structure (Grad. Sch. Sci., Osaka Univ.) ○HAYASHI, Akihiko; ATO, Yoshinori; TADA, Kouhei; KOGA, Hiroaki; KAWAKAMI, Takashi; YAMANAKA, Shusuke; OKUMURA, Mitsutaka

4A8-04 Silicon Oxide Ultrathin Film Formation on Gold Nanoparticle by the Catalyzed Chemical Vapor Polymerization of 1,3,5,7-Tetramethylcyclotetrasiloxane (Fac. Sci. Eng., Kindai Univ.) ○AKITA, Atsunobu; FUJIWARA, Keigo; FUJISIMA, Musashi; TADA, Hiroaki

Chair: KAMACHI, Takashi (9 : 50 ~10 : 50)

* 9:40-9:50: interval for laptop PC connection.(4A8-06, 4A8-07, 4A8-09, 4A8-10, 4A8-11)

4A8-06 Global reaction route network for CO oxidation on the Pt(111) surface and its analysis (Sch. Sci., Hokkaido Univ.) ○SUGIYAMA, Kanami; TAKAGI, Makito; SAITA, Kenichiro; MAEDA, Satoshi; TAKETSUGU, Tetsuya

4A8-07* Theoretical Study of the Effect of SnO₂ on the Electronic Properties of Platinum Nanoparticles (Grad. Sch. Eng., Kyushu Univ.) ○RIVERA, David; ISHIMOTO, Takayoshi; KOYAMA, Michihisa

4A8-09 Preparations of Ru-Fe nanoalloy catalysts and their catalytic properties for ammonia synthesis. (Grad. Sch. Sci., Kyushu Univ.) ○TOUZAKI, Kouta; SADAKEYO, Masaaki; KATO, Kenichi; YAMAUCHI, Miho

4A8-10 Theoretical study of correlations between structures and catalytic activities in Polymer-stabilized Au Nano-cluster Catalysis (Grad. Sch. Sci., Osaka Univ.) ○ATO, Yoshinori; HAYASHI, Akihiko; KAWAKAMI, Takashi; YAMANAKA, Shusuke; OKUMURA, Mitsutaka

4A8-11 Preparation and structural analysis of colloid derived NiO nanocluster on the support (Grad. Sch. Eng., Chiba Univ.) ○SASAKI, Takuro; ICHIKUNI, Nobuyuki; HARA, Takayoshi; SHIMAZU, Shogo

Chair: KITA, Yusuke (11 : 00~11 : 30)

* 10:50-11:00: interval for laptop PC connection.(4A8-13, 4A8-14)

4A8-13 Preparation of cobalt oxide nanocluster catalyst by colloidal method and application for selective oxidation of benzylalcohol (Grad. Sch. Eng., Chiba Univ.) ○SASAKI, Naoto; ICHIKUNI, Nobuyuki; HARA, Takayoshi; SHIMAZU, Shogo

4A8-14* Theoretical Study on Alcoholysis of Amides on CeO₂ Surface: A Catalytic Interplay between Lewis Acid and Base Sites (IMCE, Kyushu Univ.; Inst. for Cat., Hokkaido Univ.) ○KAMACHI, Takashi; MORITA, Yoshitsugu; KON, Kenichi; TOYAO, Takashi; SHIMIZU, Ken-ichi; YOSHIZAWA, Kazunari

Chair: MIURA, Hiroki (11 : 40~12 : 40)

* 11:30-11:40: interval for laptop PC connection.(4A8-17, 4A8-18, 4A8-19, 4A8-21)

4A8-17 Concerted Catalysis by Pd Complex on Mesoporous Silica Surface for Highly Efficient Allylation Reactions (Sch. Mater. & Chem. Tech., Tokyo Tech.) MOTOKURA, Ken; ○IKEDA, Marika; NAMBO, Masayuki; CHUN, Wang-jae; NAKAJIMA, Kiyotaka

4A8-18 Concerted Catalysis for Hydrosilylation by Simultaneously Immobilized Rh Complex and Tertiary Amine on a Same Silica Surface (Sch. Mater. & Chem. Tech., Tokyo Tech.) MOTOKURA, Ken; ○MAEDA, Kyogo; CHUN, Wang-jae

4A8-19* Development of Supported Ruthenium Catalysts for Green One-pot Transformation of Phenol Derivatives to Biphenols (Grad. Sch. Eng. Sci., Osaka Univ.) ○MAENO, Zen; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro

4A8-21* Mechanistic Studies on Biomass Conversion to Five-membered Lactone Based on Computational and Experimental Analysis (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech.) ○YAMAGUCHI, Sho; DEGUCHI, Hikaru; KAWAUCHI, Susumu; MOTOKURA, Ken; MIYAJI, Akimitsu; BABA, Toshihide

Room A9

Fourth Building, Section A J425

Catalysts and Catalysis

Thursday, March 16, PM

Chair: TAMURA, Masazumi (13 : 10~14 : 00)

* 13:00-13:10: interval for laptop PC connection.(1A9-26, 1A9-27, 1A9-28, 1A9-29)

1A9-26 Effect of Mg addition on oxidative dehydrogenation of but-1-ene using V-Co complex oxide (Fac. Env. Urban Eng., Kansai Univ.)
 ○HATAYAMA, Junsuke; FUKU, Kojiro; IKENAGA, Naoki

1A9-27 Dehydrogenation of n-butane over supported Pt-Sn bimetallic catalyst (Urban Environmental Sci., TMU; Kyoto Univ. ESICB; TMU RCHBS)
 ○OKUBO, Tomoyo; DENG, Lidan; MIURA, Hiroki; SHISHIDO, Tetsuya

1A9-28 Mechanism of photocatalytic reduction of phenol derivatives (Fac. Sci. Eng., Kindai Univ.) ○KINOSHITA, Atsufumi; NAKANISHI, Kousuke; FUJITA, Shusuke; TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

1A9-29[#] Novel ester metathesis reaction catalyzed by organometallic ruthenium complexes (OIST) ○KHASKIN, Eugene

Chair: OGASAWARA, Yoshiyuki (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(1A9-32, 1A9-33, 1A9-34, 1A9-35, 1A9-37)

1A9-32 Development of Cu-based catalysts for synthesis of methanol by hydrogenation of dimethyl carbonate (Sch. Eng., Tohoku Univ.) ○HAGA, Miyuu; TAMURA, Masazumi; KITANAKA, Takahisa; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi

1A9-33 Selective hydrogenation of α, β -unsaturated ketones to α, β -unsaturated alcohols over Fe-cation-modified Ir/MgO catalyst (Grad. Sch. Eng., Tohoku Univ.) ○OSHINO, Teruhisa; YONEZAWA, Dai; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi

1A9-34 Dehydrogenation and Demethoxylation of 2-Methoxycyclohexanone over Noble Metal Catalysts (Sch. Eng., Tohoku Univ.) ○MIYAGAWA, Akari; NAKAGAWA, Yoshinao; TAMURA, Masazumi; TOMISHIGE, Keiichi

1A9-35^{*} Reductive amination of carbonyl compounds to primary amines (MSL, Tokyo Tech.) ○KOMANOYA, Tasuku; KINEMURA, Takashi; KITA, Yusuke; KAMATA, Keigo; HARA, Michikazu

1A9-37 Interaction between Ni anodes and electrolytes of solid oxide fuel cells studied by infrared spectroscopy using CO as a probe molecules (Fac. Eng., Fukuoka Univ.) ○IMAMURA, Kanako; SUGIYAMA, Hiromi; KUBOTA, Jun

Chair: HARA, Takayoshi (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(1A9-39, 1A9-40, 1A9-41, 1A9-42, 1A9-43, 1A9-44)

1A9-39 Decomposition of ammonia in atmospheric-pressure non-thermal plasma using wool-like metal electrodes (Research and Development Initiative, Chuo Univ.) ○AKIYAMA, Mao; AIHARA, Keigo; TANAKA, Masashi; DEGUCHI, Takashi; IWAMOTO, Masakazu

1A9-40 Coexistence Effect of Metal Oxides on Ammonia Synthesis from N₂ and H₂ in Atmospheric-pressure Non-thermal Plasma (Research and Development Initiative, Chuo Univ.) ○HASHIMOTO, Ryu; AIHARA, Keigo; TANAKA, Masashi; DEGUCHI, Takashi; IWAMOTO, Masakazu

1A9-41 Catalytic Activity of Metal-loaded Al₂O₃ for Ammonia Synthesis from N₂ and H₂ in Atmospheric-pressure Non-thermal Plasma. (Research and Development Initiative, Chuo Univ.) ○AIHARA, Keigo; HASHIMOTO, Ryu; DEGUCHI, Takashi; TANAKA, Masashi; IWAMOTO, Masakazu

1A9-42 Interconversion of formic acid and carbon dioxide by the PdAg-supported silica modified with basic amine (Grad. Sch. Eng., Osaka Univ.)
 ○MASUDA, Shinya; MORI, Kohsuke; TANAKA, Hiromasa; YOSHIZAWA, Kazunari; YAMASHITA, Hiromi

1A9-43 Production of formic acid from CO₂ using Ir-iminophosphine-complex immobilized on titanate nanotube (Grad. Sch. Eng., Osaka Univ.) ○FUJIE, Yuki; KUWAHARA, Yasutaka; YAMASHITA, Hiromi

1A9-44 Asymmetric hydrogenation of olefins by metal oxide supported RUBINAP catalysts (Grad. Sch. Sci., Kyushu Univ.) ○IKUTAKE, Yuya; NAKASHIMA, Hiroshi; MURAYAMA, Haruno; YAMAMOTO, Eiji; HONMA, Tetsuo; TOKUNAGA, Makoto

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

* 16:20-16:30: interval for laptop PC connection.(1A9-46, 1A9-47, 1A9-48, 1A9-49, 1A9-50, 1A9-51)

1A9-46[#] Dehydrogenative Silylation of Ethanol over Immobilized Rhodium Complex Catalysts (Grad. Sch. Human and Environ. Stud., Kyoto Univ.)
 ○NAKATANI, Kouhei; YAMAMOTO, Akira; YOSHIDA, Hisao

1A9-47[#] Effect of surface modification on the activity of supported gold catalyst for ethanol silylation (Grad. Sch. Human and Environ. Stud., Kyoto Univ.)

○HASEGAWA, Ryuto; YAMAMOTO, Akira; YOSHIDA, Hisao

1A9-48 Selective hydrogenation of biomass-derived carboxylic acids to the corresponding alcohols using a hydroxyapatite-supported Pt-Mo catalyst (Sch. Eng. Sci., Osaka Univ.) ○NITTA, Kodai; TOGO, Keito; MIZUGAKI, Tomoo; MAENO, Zen; MITSUDOME, Takato; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

1A9-49 Decarboxylation of levulinic acid by ceria-supported ruthenium catalyst in the presence of H₂ (Grad. Sch. Eng. Sci., Osaka Univ.)
 ○MIZUGAKI, Tomoo; TOGO, Keito; MAENO, Zen; MITSUDOME, Takato; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

1A9-50[#] Selective hydrogenation of unsaturated carbonyls with iso-propanol using rare earth oxides (Grad. Sch. Eng., Chiba Univ.) ○NATSIR, Taufik Abdillah; HARA, Takayoshi; ICHIKUNI, Nobuyuki; SHIMAZU, Shogo

1A9-51 Highly Efficient Oxidation of Hydrosilanes Using Gold Nanoparticle Catalysts and Its Application to the Hydrogen-generation Reaction (Sch. Eng. Sci., Osaka Univ.) ○MITSUDOME, Takato; URAYAMA, Teppi; MAENO, Zen; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

Chair: YAMAGUCHI, Sho (17 : 40~18 : 10)

* 17:30-17:40: interval for laptop PC connection.(1A9-53, 1A9-54, 1A9-55)

1A9-53 Development of a Supported Tungstate Catalyst for Oxidative Cleavage of Olefins Using Hydrogen Peroxide (Grad. Sch. Eng., The Univ. of Tokyo) ○YOSHIMURA, Yu; OGASAWARA, Yoshiyuki; SUZUKI, Kosuke; YAMAGUCHI, Kazuya; MIZUNO, Noritaka

1A9-54 Investigation on Aerobic Oxidation of Hydroxymethylfurfural with a Manganese Dioxide Catalyst (IIR, Tokyo Tech.) HAYASHI, Eri; KOMANOYA, Tasuku; ○KAMATA, Keigo; HARA, Michikazu

1A9-55 Improved PM combustion activity of α -Mn₂O₃ by doping of Fe (Grad. Sch. Eng., Osaka Univ.; ESICB, Kyoto Univ.; PRESTO, JST)
 ○FUJIBAYASHI, Akihiro; KUWAHARA, Yasutaka; MORI, Kohsuke; YAMASHITA, Hiromi

Friday, March 17, PM

Chair: YAMAGUCHI, Kazuya (13 : 10~14 : 10)

* 13:00-13:10: interval for laptop PC connection.(2A9-26, 2A9-27, 2A9-28, 2A9-29, 2A9-30)

2A9-26 Microwave frequency effects on oxidation of benzyl alcohol and sugars over heteropoly acid catalysts (Tokyo Tech.) ○FURUSAWA, Kousuke; HAYAKAWA, Shogo; TSUBAKI, Shuntaro; MAITANI, Masato; SUZUKI, Eiichi; WADA, Yuji

2A9-27 In situ observation of the solid catalyst under microwave irradiation by Raman spectroscopy (Sch. Mater. & Chem. Tech., Tokyo Tech.)
 ○MATSUZAWA, Tomoki; TSUBAKI, Shuntaro; MAITANI, Masato; SUZUKI, Eiichi; WADA, Yuji

2A9-28 Electromagnetic field and temperature distribution simulation of gas-solid heterogeneous reaction under microwave irradiation (Grad. Sch. Sci., Eng., Tokyo Tech.) ○HANEISHI, Naoto; THUBAKI, Shuntaro; MAITANI, Masato; SUZUKI, Eiichi; FUJII, Satoshi; WADA, Yuji

2A9-29 Methane conversion over metal oxide catalysts under microwave irradiation (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TSUBAKI, Shuntaro; ABE, Eriko; HANEISHI, Naoto; MAITANI, Masato; SUZUKI, Ei-ichi; FUJII, Satoshi; WADA, Yuji

2A9-30[#] Selective Oxidation of Benzene to phenol by Alkali- and Alkaline-Earth Metal/Zeolite Catalysts (Innovation Res. Ctr. for Fuel Cells, The Univ. of Electro-Communications) ○GHOSH, Shipi; ACHARYA, Shankha Shubhra; YOSHIDA, Yusuke; HIGASHI, Kotaro; KANEKO, Takuma; SASAKI, Takehiko; IWASAWA, Yasuhiro

Chair: KAMATA, Keigo (14 : 20~15 : 20)

* 14:10-14:20: interval for laptop PC connection.(2A9-33, 2A9-35, 2A9-36, 2A9-37, 2A9-38)

2A9-33^{*} Ni-Mg-Al Layered Triple Hydroxide-Supported Pd Catalyst for Efficient Acceptorless Dehydrogenative Aromatization Reactions (Grad. Sch. Eng., The Univ. of Tokyo) ○JIN, Xiongjie; YAMAGUCHI, Kazuya; MIZUNO, Noritaka

2A9-35 Gold Nanoparticles on OMS-2-Catalyzed Aerobic Oxidative α, β -Dehydrogenation of β -Heteroatom-Substituted Saturated Ketones (Grad. Sch. Eng., The Univ. of Tokyo) ○YOSHII, Daichi; YATABE, Takafumi; JIN, Xiongjie; YAMAGUCHI, Kazuya; MIZUNO, Noritaka

2A9-36 Copper-Catalyzed Oxidative Acylation of Amides with Alcohols (Grad. Sch. Eng., The Univ. of Tokyo) ○KATAOKA, Kengo; JIN, Xiongjie; YAMAGUCHI, Kazuya; MIZUNO, Noritaka

2A9-37 Aerobic Oxidation of Alkylarenes by Transition Metal-Incorporated Nanocrystalline Manganese Oxide Catalysts (Grad. Sch. Eng., The Univ. of Tokyo) ○NAKAI, Satoru; UEMATSU, Tsubasa; MIYAMOTO, Yumi; YAMAGUCHI, Kazuya; MIZUNO, Noritaka

2A9-38 Catalytic Reduction of Sulfoxides by Hollandite-type Vanadium Oxides (Grad. Sch. Eng., The Univ. of Tokyo) ○UEMATSU, Tsubasa; MIYAMOTO, Yumi; YAMAGUCHI, Kazuya; MIZUNO, Noritaka

Chair: MORI, Kohsuke (15 : 30~16 : 20)

* 15:20-15:30: interval for laptop PC connection.(2A9-40, 2A9-41, 2A9-42, 2A9-44)

- 2A9-40** Creation of graphene-based multi-functional catalyst (RCIS, Okayama Univ.) ○MORIOKU, Kumika; MORIMOTO, Naoki; NISHINA, Yuta
- 2A9-41** Preparation of Copper Subnanoparticles Accumulated Precisely in Dendrimers and Application for the Catalytic Oxidation Reactions (Lab. Chem. Life Sci., Tokyo Tech.) ○SONOBE, Kazutaka; TANABE, Makoto; YAMAMOTO, Kimihisa
- 2A9-42*** Synthesis of Diarylamines through Supported Gold-Palladium Nanoparticles-Catalyzed Acceptless Dehydrogenative Aromatization (The Univ. of Tokyo) ○TANIGUCHI, Kento; JIN, Xiongjie; YAMAGUCHI, Kazuya; NOZAKI, Kyoko; MIZUNO, Noritaka
- 2A9-44** Catalytic Formal Arylation of Ammonia by Supported Palladium Nanoparticles (The Univ. of Tokyo) ○KOIZUMI, Yu; TANIGUCHI, Kento; JIN, Xiongjie; YAMAGUCHI, Kazuya; MIZUNO, Noritaka

Chair: MURATSUGU, Satoshi (16 : 30~17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(2A9-46, 2A9-47, 2A9-48, 2A9-49, 2A9-50, 2A9-51)
- 2A9-46*** Catalytic cracking of squalene derived from algae-producing oil (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SHIRAIISHI, Kazuma; KONDO, Takahiro; FUJITANI, Tadahi; NAKAMURA, Junji
- 2A9-47** Effect of K addition on hydrogen production from ammonia decomposition over Ru/CaO-ZrO₂ (Fac. Env. Urban Eng., Kansai Univ.) ○OGAWA, Ryohei; FUKU, Kojiro; IKENAGA, Naoki
- 2A9-48** Hydrogen production by steam reforming of acetic acid with Nd-Ni complex oxide catalysts (Fac. Env. Urban Eng., Kansai Univ.) ○MAKI, Tomohito; FUKU, Kojiro; IKENAGA, Naoki
- 2A9-49** Steam reforming of dimethyl ether over supported Cu-based catalyst coupled with solid acid catalyst (Urban Environmental Sci., TMU; Kyoto Univ. ESICB; TMU RCHBS) ○KAWAI, Erika; KUBO, Yuma; DENG, Lidan; MIURA, Hiroki; SHISHIDO, Tetsuya
- 2A9-50** Selective synthesis of toluene by hydrogenolysis of ethylbenzene over Ru catalysts (Grad. Sch. Eng., Tohoku Univ.) ○YANATAKE, Shin; NAKAGAWA, Yoshinao; TAMURA, Masazumi; TOMISHIGE, Keiichi
- 2A9-51** Dehydrocyclization-cracking of oleic acid methyl ester using zeolite-containing supported PtNiMo catalysts (Grad. Sch. Eng., Mie Univ.) ○ISHIHARA, Atsushi; TSUTSUI, Ryohei; HASHIMOTO, Tadanori; NASU, Hiroyuki

Saturday, March 18, AM

Chair: KAMATA, Keigo (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3A9-01, 3A9-02, 3A9-03, 3A9-04)
- 3A9-01** Development of TiO₂-ZrO₂ Catalysts for Butadiene Synthesis from Ethanol (Research and Development Initiative, Chuo Univ.) ○SHIMANO, Kaori; TANAKA, Masashi; IWAMOTO, Masakazu
- 3A9-02** Conversion of ethanol to butadiene over Ni/SiO₂-Al₂O₃ catalyst (Research and Development Initiative, Chuo Univ.) ○FUKUDA, Takuma; SHIMANO, Kaori; TANAKA, Masashi; IWAMOTO, Masakazu
- 3A9-03** Direct copolymerization of CO₂ and diols using CeO₂ catalyst and 2-cyanopyridine (Sch. Eng., Tohoku Univ.) ○SUKEGAWA, Tomokazu; ITO, Kazuki; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi; SUGIMOTO, Hiroshi
- 3A9-04*** Young Scholar Lectures of CSJ Organic synthesis catalyzed by unique acid/base and redox properties of CeO₂ (Grad. Sch. Eng., Tohoku Univ.; PRESTO, JST) ○TAMURA, Masazumi

Chair: UCHIDA, Sayaka (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3A9-08, 3A9-10, 3A9-11, 3A9-12, 3A9-13)
- 3A9-08*** Efficient formation of 5-(hydroxymethyl)furfural from glucose with photoassist-phosphorylated TiO₂ catalyst (MSL, Tokyo Tech.) ○HATTORI, Masashi; KAMATA, Keigo; HARA, Michikazu
- 3A9-10** A Bifunctional Cerium Phosphate Catalyst for Chemoselective Acetalization of 5-Hydroxymethylfurfural (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KANAI, Shunsuke; NAGAHARA, Ippei; KITA, Yusuke; KAMATA, Keigo; HARA, Michikazu
- 3A9-11** Selective dehydration of glycerol to acrolein over WO₃/Al₂O₃ catalysts (Urban Environmental Sci., TMU; Kyoto Univ. ESICB; TMU RCHBS) ○ASAZUMA, Katsuya; MIURA, Hiroki; SHISHIDO, Tetsuya
- 3A9-12** Effect of surface functional groups of solid acid gel catalysts on ester hydrolysis under aqueous conditions (Urban Environmental Sci., TMU; Kyoto Univ. ESICB; TMU RCHBS) ○KAMEYAMA, Shutaro; MIURA, Hiroki; SHISHIDO, Tetsuya
- 3A9-13*** Base Catalytic Activity of Hexatantalate (Grad. Sch. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.; CREST, JST) ○SASAKI, Naoto; HAYASHI, Shun; YAMAZOE, Seiji; TSUKUDA, Tatsuya

Chair: NAKAGAWA, Yoshinao (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(3A9-15, 3A9-16, 3A9-17, 3A9-18)
- 3A9-15** Development of alkyl chain-modified Al-based metal-organic frameworks and their catalytic performance (Grad. Sch. Eng., Osaka Pref. Univ.) ○TATEWAKI, Kenta; HORIUCHI, Yu; MATSUOKA, Masaya

- 3A9-16** Development of Ni/carbon catalyst derived from Ni-MOF by pyrolysis and its unique catalysis (Grad. Sch. Eng., Osaka Univ.; ESICB, Kyoto Univ.; PRESTO, JST) ○NAKATSUKA, Kazuki; YOSHII, Takeharu; KUWAHARA, Yasutaka; MORI, Kohsuke; YAMASHITA, Hiromi
- 3A9-17** Catalytic Conversion of 5-(Hydroxymethyl)furfural from Fructose Using a Mesoporous Ionic Crystal (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○YAMADA, Takumi; UCHIDA, Sayaka
- 3A9-18*** Water oxidation photocatalyst of ruthenium complex integrated-periodic mesoporous organosilica (Toyota Central R&D Labs., Inc.) ○WAKI, Minoru; MAEGAWA, Yoshifumi; INAGAKI, Shinji

Saturday, March 18, PM

Chair: OHYAMA, Junya (13 : 20~14 : 20)

- * 13:10-13:20: interval for laptop PC connection.(3A9-27, 3A9-28, 3A9-30, 3A9-32)
- 3A9-27** Selective reduction of NO with propene over SnO₂-nanoparticle catalyst supported on Al₂O₃ (ACRC, Nagoya Inst. of Tech.) ○DOI, Yasuyuki; OTA, Yusuke; HANEDA, Masaaki
- 3A9-28*** Study on Degradation Factors and Locations on Pt Alloy Cathode Catalysts in PEFC MEAs (Innovation Res. Ctr. for Fuel Cells, The Univ. of Electro-Communications) ○TAKAO, Shinobu; SEKIZAWA, Oki; SAMJESKE, Gabor; KANEKO, Takuma; HIGASHI, Kotarou; ZHAO, Xiao; YOSHIDA, Yusuke; SAKATA, Tomohiro; YAMAMOTO, Takashi; URUGA, Tomoya; IWASAWA, Yasuhiro
- 3A9-30*** Synthesis of specific Pt nano-catalysts promoted by lanthanoid and application for PEFC catalyst (Innovation Res. Ctr. for Fuel Cells, The Univ. of Electro-Communications) ○YOSHIDA, Yusuke; ZHAO, Xiao; SAMJESKE, Gabor; KANEKO, Takuma; TAKAO, Shinobu; HIGASHI, Kotaro; SEKIZAWA, Oki; SAKATA, Tomohiro; URUGA, Tomoya; IWASAWA, Yasuhiro
- 3A9-32** Structural analysis of AFX/CHA intergrowth zeolite by low-dose transmission electron microscopy (Tosoh Analysis and Research Center Co., Ltd. Tokyo Division) ○NAKAMURA, Kazuto; NARAKI, Yusuke

Chair: ASAKURA, Hiroyuki (14 : 30~15 : 20)

- * 14:20-14:30: interval for laptop PC connection.(3A9-34, 3A9-35, 3A9-37)
- 3A9-34** Catalytic activity for CO preferential oxidation on silica-supported Pt catalyst and its CO concentration dependence (Kobe City Coll. Technol.) ○UEGAKI, Naoto; KUGAI, Junichiro
- 3A9-35*** Theoretical study on conversion of methane to acetic acid and methanol by metal-MFI zeolite (IMCE, Kyushu Univ.) ○MORITA, Yoshitsugu; KAMACHI, Takashi; YOSHIZAWA, Kazunari
- 3A9-37*** Automotive Three-Way Catalytic Reaction over Iron-Based Spinel-Type Oxide Catalysts (Grad. Sch. Eng., Nagoya Univ.) ○UEDA, Kakuya; OHYAMA, Junya; SATSUMA, Atsushi

Chair: HANEDA, Masaaki (15 : 30~16 : 10)

- * 15:20-15:30: interval for laptop PC connection.(3A9-40, 3A9-41, 3A9-42)
- 3A9-40** Three way catalytic reaction over Cu-Ni alloy catalyst under oxidative atmosphere (Sch. Eng., Kyoto Univ.) ○ONUKI, Tetsuo; ASAKURA, Hiroyuki; HOSOKAWA, Saburo; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 3A9-41** Three way catalytic reaction over Pd catalyst supported on SrFe_{1-x}Ti_xO₃ (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.) ○DEMIZU, Akito; BEPPU, Kosuke; HOSOKAWA, Saburo; ASAKURA, Hiroyuki; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 3A9-42*** Promoter effect of Pd species for oxygen storage capacity of Sr₃Fe₂O_{7-δ} (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.) ○BEPPU, Kosuke; HOSOKAWA, Saburo; ASAKURA, Hiroyuki; TERAMURA, Kentaro; TANAKA, Tsunehiro

Chair: HARA, Michikazu (16 : 20~17 : 00)

- * 16:10-16:20: interval for laptop PC connection.(3A9-45, 3A9-46)
- 3A9-45** Dehydrogenative dimerization of Silane Catalyzed by Transition Metal-loaded MFI-type Zeolites (IRC3, AIST) ○ISHIHARA, Yoshimitsu; HAMADA, Hideaki; NAKAJIMA, Yumiko; SATO, Kazuhiko; SHIMADA, Shigeru; UCHIDA, Hiroshi; NOMURA, Kiyoshi
- 3A9-46*** CSJ Award for Young Chemists Development of Solid Catalyst-Solid Substrate Reactions for Efficient Utilization of Biomass (Inst. for Cat., Hokkaido Univ.) ○KOBAYASHI, Hirokazu

Chair: MITSUDOME, Takato (17 : 10~18 : 10)

- * 17:00-17:10: interval for laptop PC connection.(3A9-50, 3A9-51, 3A9-52, 3A9-53, 3A9-55)
- 3A9-50*** Size Controllable Gold Nanoparticles on Functionalized SBA-15 for Transfer Hydrogenation of Nitroarenes (Grad. Sch. Sci., The Univ. of Tokyo) ○KUSUMAWATI, Ety Nurlia; SASAKI, Takehiko
- 3A9-51** Catalytic activities of gold nanoparticles stabilized by fullereneols (Grad. Sch. Eng., Osaka Univ.) ○SATO, Nozomi; KOKUBO, Ken; SAKURAI, Hidehiro
- 3A9-52** The Size Effect on Reduction of Aryl Chlorides with PVP-stabilized Gold/Palladium Bimetallic Nanoclusters Catalysts (Grad. Sch. Eng., Osaka Univ.) ○MOURI, Sachi; SAKURAI, Hidehiro

- 3A9-53**** CO₂ Reduction on Metallic Copper Cathode Modified by On-Surface Organic Networking (Grad. Sch. Sci., Hiroshima Univ.) ○KUME, Shoko
3A9-55 DFT calculation and base effect about defluoro-hydrogenation of aryl fluoride at room temperature by bimetallic platinum/palladium alloy nanoclusters (Grad. Sch. Eng., Osaka Univ.) ○NOMURA, Keigo; DHITAL, Raghu Nath; EHARA, Masahiro; SAKURAI, Hidehiro

Sunday, March 19, AM

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

- * 8:50-9:00: interval for laptop PC connection.(4A9-01, 4A9-02, 4A9-03, 4A9-04, 4A9-05, 4A9-06)
4A9-01 Selective Oxidation of Steroids on Molecularly Imprinted Ru Porphyrin Catalysts (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) ○BABA, Hiroshi; TANIMOTO, Tatsuya; TERAU, Yosuke; MURATSUGU, Satoshi; TADA, Mizuki
4A9-02 Development of Ru complex-supported nano-C₃N₄ including alkali cations and enhanced photocatalytic activity. (Sch. Eng., Osaka Univ.) ○TATSUMI, Daisuke; MORI, Kohsuke; IWAMOTO, Tomoyuki; MASUI, Yoichi; ONAKA, Makoto; YAMASHITA, Hiromi
4A9-03 Controlled Synthesis of Carbon-supported Co Catalysts Using Co (salen) Complex and Their Catalysis (Grad. Sch. Eng., Osaka Univ.; ESICB, Kyoto Univ.; PRESTO, JST) ○YOSHII, Takeharu; NAKATSUKA, Kazuki; KUWAHARA, Yasutaka; MORI, Kohsuke; YAMASHITA, Hiromi
4A9-04 Characterization of activated carbon supported Au nanoparticles using amino acid gold complexes as precursors (Fac. Sci., Kyushu Univ.) ○MURAYAMA, Haruno; HASEGAWA, Takayuki; TONE, Misaki; YAMAMOTO, Yusuke; ISHIDA, Tamao; HONMA, Testuo; YAMAMOTO, Eiji; TOKUNAGA, Makoto
4A9-05 Selective adsorption of stale odorous sulphur compounds without decrease of aromatic ones using supported noble metal nanoparticles (Fac. Sci., Kyushu Univ.) ○KIMURA, Moemi; MURAYAMA, Haruno; YAMAMOTO, Eiji; ISOGAI, Atsuko; FUJII, Tsutomu; TOKUNAGA, Makoto
4A9-06 Green One-Step Synthesis of Core-Shell Nanocomposites and Their Catalytic Application to Chemoselective Hydrogenations (Sch. Eng. Sci., Osaka Univ.) ○MITSUDOME, Takato; URAYAMA, Teppei; MAENO, Zen; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

Chair: MURAYAMA, Haruno (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(4A9-08, 4A9-10, 4A9-11)
4A9-08** Amino Acid-aided Synthesis of High Surface Area Hexagonal SrMnO₃ and its Aerobic Oxidation Catalysis (MSL, Tokyo Tech.; PRESTO, JST) ○SUGAHARA, Kosei; KAMATA, Keigo; HARA, Michikazu
4A9-10 Preparation and Selective Alcohol Oxidation of a Ce-Cr-Rh Mixed Oxides with High Redox Activity (Grad. Sch. Sci., Nagoya Univ.) ○NAGASE, Shoko; HUANG, Xiubing; YOKOTA, Genichi; MURATSUGU, Satoshi; TADA, Mizuki
4A9-11** Photocatalytic activity enhancement of one-pot synthesized titania by facile non-thermal helium atmospheric plasma treatment (Grad Sch. Eng., KUT) ○DURIYASART, Farkfun; OHTANI, Masataka; KOBIRO, Kazuya

Room B1

Fourth Building, Section A J441

Physical Chemistry -Structure-

Thursday, March 16, PM

Gas-phase Spectroscopy

Chair: MIZUSE, Kenta (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(1B1-25, 1B1-27, 1B1-29)
1B1-25* Jet spectroscopy of metal containing free radicals (Grad. Sch. Info. Sci., Hiroshima City Univ.) ○FUKUSHIMA, Masaru; ISHIWATA, Takashi
1B1-27** Vibronic interactions in the nitrate free radical NO₃ (SOKENDAI) ○HIROTA, Eizi
1B1-29** Decay dynamics from highly excited vibrational levels of the E_g⁺ (³P₂) ion-pair state of I₂ (Sch. Sci., Tokyo Tech.; Res. Inst. Sci. Technol., TUS; Grad. Sch. Chem. Sci. Technol., TUS) ○HOSHINO, Shoma; ARAKI, Mitsunori; TSUKIYAMA, Koichi

Electronic State

Chair: MATSUMOTO, Yoshiteru (14 : 10~15 : 00)

- * 14:00-14:10: interval for laptop PC connection.(1B1-32, 1B1-34, 1B1-35, 1B1-36)
1B1-32** Real-Time Observation of Dynamic Screening and Large Polarization Formation in Lead Halide Perovskites (Department of Chemistry, Columbia University) ○MIYATA, Kiyoshi; TRINH, Tuan M; JOSHI, Prakriti P;

ZHU, Xiaoyang

- 1B1-34** Theoretical study on diradical character and third-order nonlinear optical property of carbon-bridged oligo para-phenylenevinylene (COPV) (Sch. Eng. Sci., Osaka Univ.) ○NISHIGAKI, Yusuke; MATSUI, Hiroshi; TSUJI, Hayato; NAKANO, Masayoshi
1B1-35 Theoretical Study on Open-shell Singlet Character and Second Hyperpolarizability of Aromatic and Antiaromatic Porphyrins (Sch. Eng. Sci., Osaka Univ.) ○FUJIYOSHI, Jun-ya; FUKUDA, Kotaro; NAGAMI, Takanori; YOSHIDA, Takuya; SHINOKUBO, Hiroshi; KITAGAWA, Yasutaka; NAKANO, Masayoshi
1B1-36 Temperature Dependence of Excited State Dynamics of *para*-Anilinybenzophosphole (Grad. Sch. Sci. and Technol., Niigata Univ.) ○KON, Shigehiko; MOTEGI, Yuta; MATANO, Yoshihiro; TSAI, Chia-jung; MIURA, Tomoaki; IKOMA, Tadaaki

Electronic Spectroscopy

Chair: EDAMOTO, Kazuyuki (15 : 10~15 : 50)

- * 15:00-15:10: interval for laptop PC connection.(1B1-38, 1B1-39)
1B1-38 Study of Changing on Orbital of Non-bonding Electron in Poly Ethylene Glycol(PEG) with forming Alkali Metal-PEG complex by using an ATR Spectroscopy in the Far-Ultraviolet region. (Grad. Sch. Sci. Eng., Kindai Univ.) ○UENO, Nami; MORISAWA, Yusuke
1B1-39 Young Scholar Lectures of CSJ Local Structures of Liquid and Liquid-Liquid Interface Studied by Soft X-ray Absorption Spectroscopy (PMS, IMS) ○NAGASAKA, Masanari

Friday, March 17, AM

IR/Raman

Chair: INOUE, Ken-ichi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2B1-01, 2B1-02, 2B1-03, 2B1-04, 2B1-05, 2B1-06)
2B1-01 Rotational relaxation time of chloroform in ionic liquids and solution structure studied with polarized Raman spectroscopy (Fac. Sci., Gakushuin Univ.) ○INAOKA, Shun; IWATA, Koichi
2B1-02 The CF stretching vibration band-specific shift on the chain length of a perfluoroalkyl compound (ICR, Kyoto Univ.) ○SHIMOAKA, Takafumi; SONOYAMA, Masashi; AMII, Hideki; TAKAGI, Toshiyuki; KANAMORI, Toshiyuki; HASEGAWA, Takeshi
2B1-03 Study of Hydrogen-bonding Structure in Deep Eutectic Solvents composed of Li salt and Acetamide by using Near Infrared Spectroscopy (Fac. Sci. Eng., Kindai Univ.) ○MORISAWA, Yusuke; MORITA, Ichimaru
2B1-04 Solvent dependence of absorption intensities of the fundamental and first overtone of OH stretching vibration of methanol: Comparison of CHCl₃ solvent and CS₂ solvent (NIT, Kumamoto College, Josai Univ., Kwansai Gakuin Univ.) ○FUTAMI, Yoshisuke; OZAKI, Yasushi; OZAKI, Yukihiro
2B1-05 Measurements and analyses of infrared absorption spectra of the anionic species of benzophenone derivatives (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○SHIMOMURA, Azusa; OKAJIMA, Hajime; SAKAMOTO, Akira
2B1-06 Energy transfer process in DPPC lipid bilayers observed with picosecond time-resolved Raman spectroscopy - effect of cholesterol (Fac. Sci., Gakushuin Univ.) ○KITAMURA, Sho; TAKAYA, Tomohisa; IWATA, Koichi

Chair: NOJIMA, Yuki (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(2B1-08, 2B1-09, 2B1-10, 2B1-11)
2B1-08 Observation of an Equilibrium Change of Water in Water/1,4-dioxane by Using IR Electroabsorption Spectroscopy (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TODA, Shogo; SHIGETO, Shinsuke
2B1-09 Low-frequency vibrational modes of crystalline polyglycolic acid and thermal expansion of the crystal lattice (Grad. Sch. Sci., Osaka Univ.; Sch. Sci. Tech., Kwansai Gakuin Univ.; Grad. Sch. Human Dev. Env., Kobe Univ.; RIKEN) ○YAMAMOTO, Shigeki; MIYADA, Mai; SATO, Harumi; HOSHINA, Hiromichi; OZAKI, Yukihiro
2B1-10 Intermolecular Dynamics in Aqueous Lidocaine Solutions Probed by Femtosecond Raman-Induced Kerr Effect Spectroscopy: Concentration Dependence (Grad. Sch. Adv. Integration Sci., Chiba Univ.) ○SHIROTA, Hideaki
2B1-11** Near-infrared resonance Raman spectroscopy of electronic excited triphenylene (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○OKAJIMA, Hajime; TAKATORI, Mika; SAKAMOTO, Akira

Biomolecules

Chair: FUJISAWA, Tomotsumi (11 : 10~11 : 50)

- * 11:00-11:10: interval for laptop PC connection.(2B1-14, 2B1-15, 2B1-16, 2B1-17)
2B1-14 Measurements of temperature dependence on anti-Stokes Raman spectra for quantitative analysis of energy transfer in heme proteins (Sch. Sci., Osaka Univ.) ○YAMASHITA, Satoshi; MIZUNO, Misao; MIZUTANI,

Yasuhisa

- 2B1-15[#]** Spectral features of heme with higher symmetry in myoglobin (Sch. Sci., Osaka Univ.) ○KAWARABATA, Momoko; MIZUNO, Misao; MIZUTANI, Yasuhisa
- 2B1-16** Subunit-subunit interaction in a light-driven proton pump from a thermophilic bacterium : Effects on hydrogen bond of the chromophore (Sch. Sci., Osaka Univ.; Grad. Sch. Sci., Osaka Univ.; Grad. Sch. Dent. and Phar. Sci., Okayama Univ.) ○SHIONOYA, Tomomi; MIZUNO, Misao; TSUKAMOTO, Takashi; SUDO, Yuki; MIZUTANI, Yasuhisa
- 2B1-17[#]** Optofluidic time-stretch quantitative phase microscopy of *Euglena gracilis* (Grad. Sch. Sci., The Univ. of Tokyo) ○GUO, Baoshan; LEI, Cheng; ITO, Takuro; YAXIAER, Yalikus; KOBAYASHI, Hirofumi; JIANG, Yiyue; TANAKA, Yo; OZEKI, Yasuyuki; GODA, Keisuke

Friday, March 17, PM

Chair: MIZUTANI, Yasuhisa (13 : 20~14 : 00)

- * 13:10-13:20: interval for laptop PC connection.(2B1-27, 2B1-28, 2B1-29)
- 2B1-27** Infrared spectroscopic analyses of aggregation of synthetic peptide analogues for Ca²⁺-binding sites of Ca²⁺-binding proteins (Tokyo Med. and Dental Univ.) ○NARA, Masayuki; MORII, Hisayuki; MIYAKAWA, Takuya; TANOKURA, Masaru
- 2B1-28** Photoconversion Mechanism of Cyanobacteriochrome RcaE Studied by Ultraviolet Resonance Raman Spectroscopy (Grad. Sch. Sci. Eng., Saga Univ.) ○WATANABE, Kouhei; OSOEGAWA, Shinsuke; HIROSE, Yuu; FUJISAWA, Tomotsumi; IKEUCHI, Masahiko; UNNO, Masashi
- 2B1-29[#]** Assignment of Raman Optical Activity Spectra of Photoactive Yellow Protein by Isotopic Labeling (Grad. Sch. Sci. Eng., Saga Univ.) ○HARAGUCHI, Shojiro; SHINGAE, Takahito; KASAI, Noritaka; KUMAUCHI, Masato; FUJISAWA, Tomotsumi; HANAMOTO, Takeshi; HOFF, Wouter D.; UNNO, Masashi

Gas Phase

Chair: URASHIMA, Shu-hei (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(2B1-32, 2B1-34, 2B1-35, 2B1-36, 2B1-37)
- 2B1-32[#]** Time-domain study on the structure and dynamics of the nitrogen dimer using a newly developed imaging technique (Sch. Sci., Tokyo Tech.) ○MIZUSE, Kenta; SATO, Hikaru; ISHIKAWA, Haruki; OHSHIMA, Yasuhiro
- 2B1-34** Two dimensional correlation IR spectroscopy of pyrrole clusters to analyze broad absorption (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○TEZUKA, Souichi; MATSUMOTO, Yoshiteru
- 2B1-35** IR Dip spectroscopy on PhOH-Ar_n(n = 0-3) clusters -Relationship between the structure and OH stretching frequency- (Lab. Chem. Life Sci., Tokyo Tech.) ○ONO, Megumi; MIYAZAKI, Mitsuhiko; FUJII, Masaaki
- 2B1-36** Gas phase spectroscopy of protonated nicotine and nor nicotine by using electrospray ionization / cold ion trap technique (Fac. Sci., TUS) ○TSURUTA, Kazuya; ISHIUCHI, Shun-ichi; XANTHEAS, Sotiris; TSUKIYAMA, Koichi; FUJII, Masaaki
- 2B1-37** Structures of magnesium oxide cluster ions investigated by ion mobility mass spectrometry (Sch. Sci., Tohoku Univ.) ○HEBIGUCHI, Daiki; AZUMA, Shohei; MORIYAMA, Ryoichi; NAKANO, Motoyoshi; OHSHIMO, Kejiro; MISAIZU, Fuminori

Liquid Interface

Chair: SHIROTA, Hideaki (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(2B1-39, 2B1-40, 2B1-42, 2B1-43)
- 2B1-39** Single-crystal ice Ih surface observed with HD-SFG spectroscopy (Fac. Eng., Saitama Univ.) SUZUKI, Yudai; TAKAHASHI, Misato; ○NOJIMA, Yuki; YAMAGUCHI, Shoichi
- 2B1-40[#]** Vibrational relaxation dynamics of free OH at the air/water interface revealed by time-resolved heterodyne-detected vibrational sum frequency generation spectroscopy (Molecular Spectroscopy Lab., RIKEN) ○INOUE, Ken-ichi; NIHONYANAGI, Satoshi; TAHARA, Tahei
- 2B1-42[#]** IV-SFG studies on the effect of zwitterion additive on the anodic stability of Lithium-ion battery (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○QI, Chengzi; MIWA, Yujiro; IWAHASHI, Takashi; YAMAGUCHI, Seitaro; FUJITA, Masahiro; OUCHI, Yukio
- 2B1-43[#]** Visualization of Energetically Isolated Water at Hydrophobic/Water Interface Revealed by 2D HD-VSFG Spectroscopy (Molecular Spectroscopy Lab., RIKEN) ○MOHAMMED, Ahmed; INOUE, Ken-ichi; NIHONYANAGI, Satoshi; TAHARA, Tahei

Chair: IWATA, Koichi (16 : 30~17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(2B1-46, 2B1-47, 2B1-49, 2B1-50)
- 2B1-46** Water Structure and Dehydration Process of Deuterated Polymer Hydrogel (Dept. of Sci. Tech., Meiji Univ.) ○WATANABE, Teppei; WATANO, Hitoshi; IKEDA-FUKAZAWA, Tomoko
- 2B1-47[#]** Structure of the topmost water at charged silica/aqueous interfaces studied by heterodyne-detected vibrational sum frequency generation spectro-

scopy (Molecular Spectroscopy Lab., RIKEN) ○URASHIMA, Shu-hei; NIHONYANAGI, Satoshi; TAHARA, Tahei

- 2B1-49** IV-SFG studies on the interface structure of ionic liquid/Pt electrode with Li⁺ cation (II) (Sch. Mater. & Chem. Tech., Tokyo Tech.) MIWA, Yujiro; ○IWAHASHI, Takashi; YAMAGATA, Masaki; ISHIKAWA, Masashi; ZHOU, Wei; OUCHI, Yukio
- 2B1-50[#]** First electronic transition and hydrogen bonding state of interfacial water on alumina surface studied by far-UV spectroscopy (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○GOTO, Takeyoshi; KISHIBE, Kodai; KINUGASA, Tomoya; OZAKI, Yukihiro

International Symposium on Molecular Science - Physical Chemistry / Theoretical Chemistry, Chemoinformatics, Computational Chemistry - Cosponsored by Japan Society for Molecular Science
Saturday, March 18, AM

(9 : 00 ~ 9 : 10)

- 3B1-01[#]**
- Opening Remarks (09:00~09:10)

Chair: Kandori, Hideki (9 : 10 ~ 10 : 30)

- 3B1-02[#] Keynote Lecture** Binding, dynamics and function of membrane proteins by infrared spectroscopy (Universitat de Valencia) ○LORENZ-FONFRIA, Victor (09:10~09:50)
- 3B1-06[#] Invited Lecture** Nanoscale visualization of membrane proteins by high-speed atomic force microscopy (Kanazawa Univ.) ○Shibata, Mikihiro (09:50~10:10)
- 3B1-08[#] Invited Lecture** Electrophysiological studies of voltage sensing proteins (Osaka Univ.) ○Kawanabe, Akira (10:10~10:30)

(10 : 30~10 : 40)

- 3B1-10[#]**
- Computer Setting and Break (10:30~10:40)

Chair: Torii, Hajime (10 : 40~11 : 20)

- 3B1-11[#] Keynote Lecture**
- Confinement and crowding effects on Chromatins (DNAs): simulation studies using coarse-grained models (Ewha Womans Univ.) ○KIM, Jun Soo (10:40~11:20)

Chair: Matubayasi, Nobuyuki (11 : 20~11 : 40)

- 3B1-15[#] Invited Lecture**
- Drug extrusion mechanism of the multidrug transporter AcrB studied by molecular dynamics simulation (RIKEN) ○MATSUNAGA, Yasuhiro (11:20~11:40)

Chair: Sato, Hirofumi (11 : 40~12 : 00)

- 3B1-17[#] Invited Lecture**
- Molecular dynamics simulations for creation and disruption of amyloid fibrils (Institute for Molecular Science) ○OKUMURA, Hisashi (11:40~12:00)

Saturday, March 18, PM

Chair: KIM, Yousoo (13 : 00~13 : 40)

- 3B1-25[#] Keynote Lecture**
- Towards controlling of Li
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- structures for improvement of charging overpotential in lithium-oxygen batteries (Korea Advanced Institute of Science and Technology) ○BYON, Hye Ryung (13:00~13:40)

Chair: Mizutani, Yasuhisa (13 : 40~14 : 20)

- 3B1-29[#] Invited Lecture** Reaction Mechanism at Interface in Electrochemical Energy Conversion (Ritsumeikan Univ.) ○ORIKASA, Yuki (13:40~14:00)
- 3B1-31[#] Invited Lecture** In-situ observation of potential-dependent restructuring behavior of ionic liquid/electrode interfaces: A surface-enhanced infrared study (Nagoya Institute of Technology) ○MOTOBAYASHI, Kenta (14:00~14:20)

(14 : 20~14 : 30)

- 3B1-33[#]**
- Computer Setting and Break (14:20~14:30)

Chair: OUCHI, Yukio (14 : 30~15 : 50)

- 3B1-34[#] Keynote Lecture** Structure, Solutes, and Surfaces in Ionic Liquids (University of Newcastle) ○Atkin, Rob (14:30~15:10)
- 3B1-38[#] Invited Lecture** Extremely biocompatible cellulose solvents What is the key structure of ionic liquids to satisfy both low toxicity and cellulose dissolution ability? (Kanazawa Univ.) ○Kuroda, Kosuke; Miyamura, Kyohei; Satria, Heri; Tsuge, Yota; Ninomiya, Kazuaki; Takahashi, Kenji (15:10~15:30)
- 3B1-40[#] Invited Lecture** Categorizing Molten Salt Complexes as Ionic Liquids and Their Applications to Battery Electrolytes (Yamaguchi Univ.) ○Ueno, Kazuhide (15:30~15:50)

(15 : 50~16 : 00)

- 3B1-42[#]**
- Computer Setting and Break (15:50~16:00)

Chair: Tsukuda, Tatsuya (16:00~17:20)

- 3B1-43# Keynote Lecture** X-ray spectroscopy of metal nanoclusters and nanoparticles (Dalhousie University) ○Zhang, Peng (16:00~16:40)
- 3B1-47# Invited Lecture** Synthesis of Metal Encapsulating Silico-polyhedron $M@Si_{16}$ based on Gas-phase Synthetic Approach (Keio Univ.) ○Tsunoyama, Hironori; Shibuta, Masahiro; Iwasa, Takeshi; Mizuhata, Yoshiyuki; Tokitoh, Norihiro; Nakajima, Atsushi (16:40~17:00)
- 3B1-49# Invited Lecture** Synthesis and structural study of metal cluster compounds (Hokkaido Univ.) ○Shichibu, Yuktatsu (17:00~17:20)

(17:20~17:30)

- 3B1-51#** Closing Remarks (17:20~17:30)

Physical Chemistry -Structure-

Sunday, March 19, AM

Surface-Enhanced Raman

Chair: SHIGETO, Shinsuke (9:00~10:10)

- * 8:50-9:00: interval for laptop PC connection.(4B1-01, 4B1-02, 4B1-03, 4B1-04, 4B1-05, 4B1-06)
- 4B1-01#** Observation of surface enhanced Raman signals from adsorbates on gold nanoparticle aggregates in solution by impulsive stimulated Raman spectroscopy (Molecular Spectroscopy Lab., RIKEN) ○KUMAR, Pardeep; HASEGAWA, Kazuto; KURAMOCHI, Hikaru; TAKEUCHI, Satoshi; TAHARA, Tahei
- 4B1-02** Characterization of New Light-Matter State using Electrochemical *in situ* Surface-Enhanced Raman Spectroscopy (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Grad. Sch. Sci., Hokkaido Univ.) ○KATO, Fumiya; MINAMIMOTO, Hiro; MURAKOSHI, Kei
- 4B1-03** Study of blinking SERS by simultaneous bi-color video imaging (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○KITAHAMA, Yasutaka; NISHIYAMA, Yumi; OZAKI, Yukihiko
- 4B1-04** Enhancement Mechanism and Nanoparticle Size Limit for Surface-enhanced Infrared Absorption (Fac. Edu., Hirosaki Univ.) ○SHIMADA, Toru; NAKASHIMA, Hiroshi; KUMAGAI, Yuta; ISHIGO, Yuta; TSUSHIMA, Masamichi; IKARI, Akihiko; SUZUKI, Yushi
- 4B1-05#** Structural effect of Au nanoparticles toward the optimization of Shell-isolated nanoparticle enhanced Raman spectroscopy (Lab. Chem. Life Sci., Tokyo Tech.) ○TANG, Yuansen; KUZUME, Akiyoshi; YAMAMOTO, Kimihisa
- 4B1-06#** Effect of electrochemical doping on Raman spectra of graphene prepared on various substrates (Fac. Sci., Hokkaido Univ.) ○ZHOU, Ruifeng; MINAMIMOTO, Hiro; YASUDA, Satoshi; MURAKOSHI, Kei

Solid Surface

Chair: MASUDA, Shigeru (10:20~11:20)

- * 10:10-10:20: interval for laptop PC connection.(4B1-09)
- 4B1-09 CSJ Award for Creative Works** Development of Local Analysis Technique of Electric Double Layer at Electrode Interfaces and its Application to Ionic Liquid Interfaces (Grad. Sch. Eng. Sci., Osaka Univ.) ○FUKUI, Ken-ichi

Sunday, March 19, PM

Solid Surface (Structure, Dynamics)

Chair: AOKI, Masaru (13:00~13:50)

- * 12:50-13:00: interval for laptop PC connection.(4B1-25, 4B1-27, 4B1-28, 4B1-29)
- 4B1-25*** Imaging of oxygen diffusion mode in single $Ce_2Zr_2O_7$ catalyst particles by scanning nano-XAFS (Grad. Sch. Sci., Nagoya Univ.) ○MATSUI, Hirotsugu; ISHIGURO, Nozomu; SEKIZAWA, Oki; URUGA, Tomoya; TADA, Mizuki
- 4B1-27** Visualization of oxygen diffusion and phase transition in crystalline FeO_x by scanning nano-XAFS spectroscopy (Sch. Sci., Nagoya Univ.; JASRI) ○SUZUKI, Youya; MATSUI, Hirotsugu; ISHIGURO, Nozomu; NITTA, Kiyohumi; SEKIZAWA, Oki; URUGA, Tomoya; TERADA, Yasuko; TADA, Mizuki
- 4B1-28** Chemical State Visualization of Dendritic FeO_x Single Particle by Imaging nano-XAFS (Spring-8 Center, RIKEN; RIKEN Spring-8 Center; Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.; Innovation Res. Ctr. for Feul Cells, The Univ. of Electro-Communications; JASRI) ○ISHIGURO, Nozomu; MATSUI, Hirotsugu; SUZUKI, Youya; SEKIZAWA, Oki; URUGA, Tomoya; TADA, Mizuki
- 4B1-29** Reaction dynamics of CO_2 and hydrogen adsorbed on copper studied by supersonic molecular beam (Sch. Sci. Eng., Univ. of Tsukuba) ○MOGI, Tomoyasu; KOZARASHI, Taijun; QUAN, Jiamei; KONDO, Takahiro; NAKAMURA, Junji

Solid Surface (Electronic Structure)

Chair: SHIMADA, Toru (14:00~14:40)

- * 13:50-14:00: interval for laptop PC connection.(4B1-31, 4B1-32, 4B1-33, 4B1-34)
- 4B1-31** Local electronic states at pentacene-Cu(111) interface studied by ultraviolet photoemission spectroscopy, metastable atom electron spectroscopy, and first-principles calculation (Grad. Sch. Arts and Sci., The Univ. of Tokyo) KAJIMOTO, Takashi; ○KOITAYA, Takanori; ITO, Yujiro; AOKI, Masaru; MASUDA, Shigeru
- 4B1-32** Valence electronic structure of picene thin films on Au(111) studied by electronic spectroscopy and first-principles calculation (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○HIGUCHI, Takafumi; SUZUKI, Atsushi; ITO, Yujiro; KOITAYA, Takanori; AOKI, Masaru; SHUDO, Ken-ichi; MASUDA, Shigeru
- 4B1-33** The electronic structure of VO on Ag(100) (Grad. Sch. Sci., Rikkyo Univ.) ○SUGIZAKI, Yuichi; MOTOYAMA, Hiroki; EDAMOTO, Kazuyuki
- 4B1-34** Investigation of surface plasmon resonance (SPR) for development of far-ultraviolet SPR sensor using Al thin film (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○WATARI, Koji; TANABE, Ichiro; TANAKA, Yoshito; GOTO, Takayoshi; INAMI, Wataru; KAWATA, Yoshimasa; OZAKI, Yukihiko

Magnetic Resonance ESR

Chair: MIYAKE, Yusuke (14:50~15:40)

- * 14:40-14:50: interval for laptop PC connection.(4B1-36, 4B1-38, 4B1-39, 4B1-40)
- 4B1-36*** Adiabatic Electron Spin Manipulation in Molecular Spins based on Pulsed ESR Technology (Grad. Sch. Sci., Osaka City Univ.; ITC, Russia) ○SATO, Kazunobu; YAMAMOTO, Satoru; NAKAZAWA, Shigeaki; TOYOTA, Kazuo; SHIOMI, Daisuke; IVANOV, Konstantin; TAKUI, Takeji
- 4B1-38** Electronic Structures of Compact Nitroxide-based Triplet Diradicals as a Hybrid Spin Memory Device: Their Magnetic Tensors and Quantum Chemical Calculations (Grad. Sch. Sci., Osaka City Univ.) ○SAWADA, Shun; NAKAZAWA, Shigeaki; KAWAMORI, Moeko; SUGISAKI, Kenji; TOYOTA, Kazuo; SHIOMI, Daisuke; SATO, Kazunobu; OMUKAI, Kosuke; FURUI, Takanori; KURATSU, Masato; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji; TAKUI, Takeji
- 4B1-39** Magnetic Properties of High-Spin Rhenium (III,IV) Binuclear Complexes with Large ZFSs Using Single-Crystal ESR Spectroscopy in the Principal Axis System (Grad. Sch. Sci., Osaka City Univ.) ○YAMANE, Takeshi; NAKAGAWA, Tomoki; SATO, Kazunobu; SUGISAKI, Kenji; KANZAKI, Yuki; TOYOTA, Kazuo; SHIOMI, Daisuke; YOSHIZAWA, Makoto; TADOKORO, Makoto; TAKUI, Takeji
- 4B1-40** Molecular orientation and dynamics of nitronitroxide or iminonitroxide radicals in organic 1D nanochannels (Coll. Hum. Sci., Nihon Univ.; Inst. Natur. Sci., Col. Hum. Sci., Nihon Univ.) ○KOBAYASHI, Hirokazu; MORI, Takanori; MORINAGA, Yuka; AKINIWA, Kento; IWAHORI, Fumiya

Magnetic Resonance ESR, NMR

Chair: SATO, Kazunobu (15:50~16:40)

- * 15:40-15:50: interval for laptop PC connection.(4B1-42, 4B1-43, 4B1-44, 4B1-45, 4B1-46)
- 4B1-42** Excited States Dynamics of Extended π -Conjugated Anthracene-Radical System (Grad. Sch. Sci., Osaka City Univ.) ○KATO, Ken; SHIMIZU, Akihiro; TEKI, Yoshio
- 4B1-43** Present Situation and Problems for Time-Dependent Simulation of Time-Resolved ESR and Excited-State Spin Dynamics Using Secular Averaging Hamiltonian Theory (Grad. Sch. Sci., Osaka City Univ.) ○TEKI, Yoshio
- 4B1-44** Determination of structure for stable dication radicals electrolytically generated from acetal substituted biphenyl methane derivatives (KIT) ○MIYAKE, Yusuke; MURATA, Naoya; KANAORI, Kenji; TAJIMA, Kunihiko
- 4B1-45** Effects of Magic Angle Spinning on Spin-Lattice Relaxation of $NH_4H_2PO_4$ (MCM, AIST) ○HAYASHI, Shigenobu; JIMURA, Keiko
- 4B1-46** Local Structural Analysis of Proton Conducting Imidazolium Diphosphate Crystals Using Solid-State NMR (Coll. Sci. Eng., Kanazawa Univ.) ○UNE, Ryota; HUWA, Hiroki; OHASHI, Ryutarou; IDA, Tomonori; MIZUNO, Motohiro

Room B2

Fourth Building, Section A J442

Physical Chemistry -Properties-

Thursday, March 16, PM

Electrical conductors

Chair: MISAKI, Yohji (12 : 40~13 : 40)

- * 12:30-12:40: interval for laptop PC connection.(1B2-23, 1B2-26, 1B2-27, 1B2-28)
- 1B2-23** CSJ Award for Young Chemists Development of Novel Functional Organic Crystals by Applying Proton- and pi-Electron-Donating/Accepting Abilities (ISSP, The Univ. of Tokyo) ○UEDA, Akira
- 1B2-26** Synthesis, Structures, and Physical Properties of Novel Hydrogen-bonded Charge-Transfer Complexes Composed of Catechol-fused TTF and Anilic acid Derivatives (ISSP, The Univ. of Tokyo) ○DOI, Ryohei; UEDA, Akira; KUMAI, Reiji; MURAKAMI, Youichi; MORI, Hatsumi
- 1B2-27** Structures and physical properties of novel hydrogen-bonded organic conductors based on TBTF (ISSP, The Univ. of Tokyo) ○HIGASHINO, Toshiki; UEDA, Akira; MORI, Hatsumi
- 1B2-28** Charge order and nonlinear conduction in a hydrogen-bonded organic conductor, beta-(H₂Cat-Benzo-TTF)₂CF₃SO₃H₂O (ISSP, The Univ. of Tokyo) ○TERASHI, Takuya; KISHIMOTO, Kouki; UEDA, Akira; MORI, Hatsumi

Chair: FUJIWARA, Hideki (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(1B2-30, 1B2-31, 1B2-33, 1B2-34, 1B2-35)
- 1B2-30** Structure and physical properties of molecular conductors based on catechol-fused DT-TTF derivatives (Grad. Sch. Sci., Eng., Ehime Univ.; ISSP, The Univ. of Tokyo; RU: PGES, Ehime Univ.) ○SHIROSHITA, Yusuke; KATAYAMA, Shogo; SHIRAHATA, Takashi; DOI, Ryohei; UEDA, Akira; MORI, Hatsumi; MISAKI, Yohji
- 1B2-31*** Anomalous behaviors in electrical resistivity and magnetic susceptibility of κ -(ET)₂Cu[N(CN)₂]I (Grad. Sch. Sci., Eng., Ehime Univ.) ○YAMAMOTO, Takashi; NAKAMURA, Yusuke; NAITO, Toshio; KOICHIRO, Matsushita; NAKAZAWA, Yasuhiro; KONISHI, Kensuke
- 1B2-33** Transport measurement of quantum spin liquid κ -(ET)₂Ag₂(CN)₃ under uniaxial strain (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TOMENO, Shinya; MAESATO, Mitsuhiko; HIRAMATSU, Takaaki; YOSHIDA, Yukihiro; SAITO, Gunji; KITAGAWA, Hiroshi
- 1B2-34** Thermopower and Energy Band in the Molecular Conductor β -[N(CH₃)₄][Pd(dmit)₂]₂ (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KIYOTA, Yasuhiro; KAWAMOTO, Tadashi; MORI, Takehiko; KATO, Reizo
- 1B2-35** Anion Polarity-Induced Self-doping in α '- α '-(BEDT-TTF)₂(PO-CONH-*m*-C₆H₄SO₃)₂H₂O (Grad. Sch. Sci., Osaka Univ.; Grad. Sch. Mat. Sci., Univ. of Hyogo) ○AKUTSU, Hiroki; ISHIIHARA, Keita; YAMADA, Jun-ichi; NAKATSUJI, Shin'ichi; NAKAZAWA, Yasuhiro

Chair: NISHIKAWA, Hiroyuki (15 : 00~16 : 00)

- * 14:50-15:00: interval for laptop PC connection.(1B2-37, 1B2-40, 1B2-41, 1B2-42)
- 1B2-37** CSJ Award for Young Chemists New Photo-Control Method for Organic-Inorganic Interface Dipoles and Its Application to Photo-Controllable Molecular Devices (IMS) ○SUDA, Masayuki
- 1B2-40** Syntheses, Structures, and Physical Properties of Novel Molecular Conductors Based on Metal Dithiolenes Complexes Having Methoxy Groups (ISSP, The Univ. of Tokyo) ○YOKOMORI, So; HIGASHINO, Toshiki; UEDA, Akira; MORI, Hatsumi
- 1B2-41** Development of new multi-functional materials using TTF derivatives substituted with nitrogen-containing heterocycles (Fac. Sci., Osaka Pref. Univ.) ○YAMAGUCHI, Minayo; OKUNO, Ryota; FUJIWARA, Hideki
- 1B2-42** Evaluation of electronic state for carrier-doped [Ni(dmit)₂] salt by solid state ion exchange (Grad. Sch. Sci., Hiroshima Univ.) ○ICHIHASHI, Katsuya; NISHIHARA, Sadafumi; KONNO, Daisuke; MARYUNINA, Kseniya; INOUE, Katsuya; TOYODA, Kazuhiro; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi

Chair: YAMAMOTO, Takashi (16 : 10~17 : 10)

- * 16:00-16:10: interval for laptop PC connection.(1B2-44, 1B2-45, 1B2-46, 1B2-47, 1B2-48, 1B2-49)
- 1B2-44** Structure and magnetic properties of a new TTF-Ni(II) tetranuclear cubic complex (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○WACHI, Atsushi; KUDO, Yusuke; SHIGA, Takuya; OSHIO, Hiroki; NISHIKAWA, Hiroyuki
- 1B2-45** Preparation, structure and electric property of the mixed crystal between fully oxidized [SiMo^{VI}₁₂O₄₀]⁴⁺ and mixed-valence [PMo^VMo^{VI}₁₁O₄₀]⁴⁺ (Fac. Sci., Yamaguchi Univ.) ○MORI, Megumi; TSUNASHIMA, Ryo; FUJIMURA, Nene
- 1B2-46** Development of Molecular Conductors TPP[Fe^{III}(tpb)₂]₂ (L = Br,

Cl) having the Localized Spin (Grad. Sch. Sci. & Tech., Kumamoto Univ.; Grad. Sch. Sci., Osaka Univ.; IMRAM, Tohoku Univ.) ○NISHI, Miki; ISHII, Ryuta; IKEDA, Mitsuo; HANASAKI, Noriaki; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki; MATSUDA, Masaki

Magnetism

- 1B2-47** Synthesis and properties of novel π -electron acceptors bearing aromatic N-heterocycles (Grad. Sch. Sci., Kobe Univ.) ○HIRANO, Masatoshi; TAKAHASHI, Kazuyuki
- 1B2-48** Evaluation of impurity effect on Cu(II)-CO₃²⁻ spin ladder (Fac. Sci., Hiroshima Univ.) ○NISHIDA, Kazuki; ZHANG, Xiao; NAKANO, Yuki; MARYUNINA, Kseniya; INOUE, Katsuya; NISHIHARA, Sadafumi
- 1B2-49** Spin dynamics under the photoexcitation for the metal diazaporphyrin (Graduate School of Science and Technology, Niigata Univ.) ○MARUYAMA, Yasuhisa; SUGAI, Takuma; FURUKAWA, Ko; MATANO, Yoshihiro

Chair: NISHIHARA, Sadafumi (17 : 20~18 : 10)

- * 17:10-17:20: interval for laptop PC connection.(1B2-51, 1B2-52, 1B2-54, 1B2-55)
- 1B2-51** Thermal induced magnetic transition in the antiferromagnetic chain of a Ni(III) complex having the thiazazole rings (Grad. Sch. Adv. Integration Sci., Chiba Univ.) ○HANAMOTO, Daichi; SUZU, Rie; MASU, Hyuma; AWAGA, Kunio; SAKAMOTO, Kazuyuki
- 1B2-52**** Modification of semiempirical molecular orbital theory for computing diradical species (Grad. Sch. Info. Sci., Hiroshima City Univ.) ○SAITO, Toru; TAKANO, Yu
- 1B2-54** Ab initio computations of effective exchange integrals for metallocene-TCNE,TCNQ complex : extension to DMRG-CASCI method (RIKEN AICS; Grad. Sch. Sci., Osaka Univ.) ○KAWAKAMI, Takashi; SANJO, Shinsuke; TSUTSUMISHITA, Masashi; SAITO, Toru; SHOJI, Mitsuo; YAMADA, Satoru; TAKANO, Yu; YAMANAKA, Shusuke; OKUMURA, Mitsutaka; NAKAJIMA, Takahito; YAMAGUCHI, Kizashi
- 1B2-55** Ab initio computations and statistical analysis for Mn12-cluster single molecule magnet (Grad. Sch. Sci., Osaka Univ.) ○SANO, Shinsuke; KAWAKAMI, Takashi; TSUTSUMISHITA, Masashi; YAMANAKA, Shusuke; OKUMURA, Mitsutaka; YAMAGUCHI, Kizashi

Friday, March 17, AM

Optical properties • others

Chair: AKUTSU, Hiroki (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2B2-01, 2B2-02, 2B2-03, 2B2-04, 2B2-06)
- 2B2-01** Carrier Transport Properties at the Heterojunction Interfaces between Organic Single Crystals (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○SHIMADA, Takuro; TAKAHASHI, Yukihiro; HARADA, Jun; INABE, Tamotsu
- 2B2-02** Development of Plastic/Ferroelectric Organic Ionic Crystals (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○OYAMAGUCHI, Hideaki; HARADA, Jun; TAKAHASHI, Yukihiro; INABE, Tamotsu
- 2B2-03** Development of organic ionic ferroelectric crystals (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○YONEYAMA, Naho; YOKOKURA, Seiya; HARADA, Jun; TAKAHASHI, Yukihiro; INABE, Tamotsu
- 2B2-04*** Investigating structural properties of DABCO-based supramolecular chain of [MCl₃(DABCO)(HDABCO)]_∞ assembled with hydrogen bond and coordination bond. (Fac. Sci., Yamaguchi Univ.) ○TSUNASHIMA, Ryo; HARADA, Yumi
- 2B2-06** Multichromic behaviors of DABCO based two-dimensional network structures assembled by coordination and hydrogen bonding chains (Fac. Sci., Yamaguchi Univ.) ○SHIGA, Misaki; KATO, Chisato; NISHIHARA, Sadafumi; INOUE, Katsuya; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi; TSUNASHIMA, Ryo

Chair: HARADA, Jun (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2B2-08, 2B2-09, 2B2-11, 2B2-12, 2B2-13)
- 2B2-08** Synthesis and structural study of [2×2] grid-type Fe complex with intra-cluster hydrogen-bonding moieties. (Fac. Sci., Yamaguchi Univ.) ○UEZU, Yuta; TSUNASHIMA, Ryo
- 2B2-09**** Control in Ferroelectricity and Optical Properties of Supramolecular Structures of Alkylamide-substituted Pyrene Derivatives (Grad. Sch. Eng., Tohoku Univ.) ○ANETAI, Hayato; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki
- 2B2-11** Phase Transition, Crystal Structure, and Dielectric Response of Guanidinium -Sulfonates (Graduate School of Engineering, Tohoku University) ○KOBAYASHI, Takahiro; HOSHINO, Norihisa; TAKEDA, Takashi; AKUTAGAWA, Tomoyuki
- 2B2-12** Phase Transition, Crystal Structure, and Dielectric Response of Two-dimensional Perovskite Crystals Including Chiral Ammonium (IMRAM, Tohoku Univ.) ○TAKAHASHI, Masaki; HOSHINO, Norihisa; TAKEDA, Takashi; AKUTAGAWA, Tomoyuki

2B2-13 Development of Bithiazole-based Molecular Sorption Material (Graduate School of Engineering, Tohoku University) ○NISHIYAMA, Hiroshi; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

Chair: TAKAHASHI, Kazuyuki (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(2B2-15, 2B2-16, 2B2-17, 2B2-19)

2B2-15 Control in molecular assemblies and physical properties of phenylsulfonate-substituted naphthalenediimide derivative (IMRAM, Tohoku Univ.) ○KAWASAKI, Ayumi; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

2B2-16 Preparation and properties of tetra[3,4] thienylenetetra-carboxylic acid and its derivatives (IMRAM, Tohoku Univ.) ○OZAWA, Masataka; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

2B2-17** Theoretical Study on Singlet Fission in Pancake-Bonded Phenalenyl Radical Aggregates (Grad. Sch. Eng. Sci., Osaka Univ.) ○ITO, Soichi; NAGAMI, Takanori; KUBO, Takashi; NAKANO, Masayoshi

2B2-19 Theoretical study on the intermolecular packing effect on singlet fission in terrylene (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAGAMI, Takanori; ITO, Soichi; KUBO, Takashi; NAKANO, Masayoshi

Friday, March 17, PM

Chair: KAWAKAMI, Takashi (13 : 20~14 : 20)

* 13:10-13:20: interval for laptop PC connection.(2B2-27, 2B2-29, 2B2-30, 2B2-32)

2B2-27* Theoretical study on singlet fission dynamics: Analysis of excitonic coupling and state-dependent vibronic coupling effects (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAKANO, Masayoshi; NAGAMI, Takanori; ITO, Soichi; KUBO, Takashi

2B2-29 Molecular Structure and Fluorescent Property of 2-(2'-Hydroxyphenyl)benzothiazole Derivative Bearing Sulfonate Group (IMRAM, Tohoku Univ.) ○NAKANE, Yuta; TAKEDA, Takashi; HOSHINO, Norihisa; SAKAI, Ken-ichi; AKUTAGAWA, Tomoyuki

2B2-30* Theoretical study on the electronic states and third-order nonlinear optical properties for unoxidized domains on graphene oxide (Dept. of Chem. Eng., NNCT) ○YONEDA, Kyohei; MATSUI, Hiroshi; NAGAMI, Takanori; TAKAMUKU, Shota; KITAGAWA, Yasutaka; NAKANO, Masayoshi

2B2-32 Millimeter wave absorption and rotation properties on aluminum substituted ϵ -iron oxide (Grad. Sch. Sci., The Univ. of Tokyo) ○NAMAI, Asuka; YOSIKIYO, Marie; OHKOSHI, Shin-ichi

Chair: NAKANO, Masayoshi (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(2B2-34, 2B2-35, 2B2-36, 2B2-37, 2B2-39)

2B2-34 Career dynamics of P3HT:PCBM bulk-heterojunction thin film studied by simultaneous measurement of nanosecond transient absorption and photoconductance (Grad. Sch. Sci. and Technol., Niigata Univ.) ○AKIYAMA, Ryoya; MIURA, Tomoaki; IKOMA, Tadaaki

2B2-35 Fabrication of a dye-sensitized solar cell containing a noncarboxylated spiro-derivative photomercocyanine with cyclodextrin (Grad. Sch. Eng., FUT) ○TAKESHITA, Tatsuya; UMEDA, Takao; HARA, Michihiro

2B2-36 The long-term relaxation in the stress-induced birefringence of alkali halides single crystals (Grad. Sch. Eng., Oita Univ.) ○UENO, Hiroki; TAKAHASHI, Toru; HIRAO, Shotaro; HARADA, Takunori; OHGA, Yasushi; ARAKANE, Ryoga; MATSUMOTO, Yoshihisa

Gas phase

2B2-37* Optimal control of 3D-alignment of asymmetric-top molecules for time-resolved X-ray imaging (Grad. Sch. Sci., Tohoku Univ.) ○YOSHIDA, Masataka; OHTSUKI, Yukiyo; KONO, Hirohiko

2B2-39 Controlling IBr photodissociation by optimal-laser-pulse induced Stark effects (Grad. Sch. Sci., Tohoku Univ.) ○TASHIRO, Tomohiro; YOSHIDA, Masataka; OHTSUKI, Yukiyo; KONO, Hirohiko

Phase equilibrium · Phase transition · Glass

Chair: SAITO, Kazuya (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(2B2-41, 2B2-42, 2B2-43, 2B2-45, 2B2-46)

2B2-41 High Pressure Phase Behavior of *n*-Octane (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○KOYAMA, Yoshihiro; MATSUSHI, Kiyoto; TAKEKIYO, Takahiro; ABE, Hiroshi; HAMAYA, Nozomu; YOSHIMURA, Yukihiro

2B2-42 Crystal Structures and Phase Transitions of Ionic Plastic Crystals Containing Ferrocene Derivatives (Grad. Sch. Sci., Kobe Univ.) ○ISHIDA, Mai; MOCHIDA, Tomoyuki

2B2-43** Direct evidence of the molecular interaction propagation in the phase transition of liquid crystals (Fac. Sci. Eng., Chuo Univ.) ○KATAYAMA, Kenji; SATO, Takahiro; SOHN, Woon Yong

2B2-45 Development of frequency modulated photo-induced phase microscopy and the observation of photo-induced phase transition change of liquid

crystals (Grad. Sch. Sci. Eng., Chuo Univ.) ○KATO, Daiki; NISHIMURA, Taisei; SOHN, Woon Yong; KATAYAMA, Kenji

2B2-46* Hydrogen-Bonding Molecular Assemblies of Alkylamide-Substituted Amphiphilic Isophthalic Acid Derivative (IMRAM, Tohoku Univ.) ○LU, Chao; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

Chair: NAKAYAMA, Hideyuki (16 : 50~17 : 30)

* 16:40-16:50: interval for laptop PC connection.(2B2-48, 2B2-50)

2B2-48** Freezing process of a water droplet evaporatively cooled in a vacuum (Grad. Sch. Sci., Kyushu Univ.) ○ANDO, Kota; ARAKAWA, Masashi; TERASAKI, Akira

2B2-50** Melting entropy under constant volume on argon by molecular dynamics (Fac. Bio., Hosei Univ.) ○KATAOKA, Yosuke

Saturday, March 18, AM

Liquid and Solution

Chair: TAKAYA, Tomohisa (9 : 00~9 : 40)

* 8:50-9:00: interval for laptop PC connection.(3B2-01, 3B2-02, 3B2-03, 3B2-04)

3B2-01 Liquid liquid equilibrium of mixtures containing partially fluorinated cycloalkane (Grad. Sch. Sci. Eng., Tokyo Denki Univ.) ○NAGATA, Shimpei; OGAWA, Hideo; KIMURA, Fumio

3B2-02 Thermal Properties and LCST behavior of Ionic Liquids Formed from Metal Complexes with Alkyl Aza-Crown Ethers (Grad. Sch. Sci., Kobe Univ.) ○OBA, Yukiko; MOCHIDA, Tomoyuki

3B2-03 Phase separation dynamics for poly(*N*-isopropylacrylamide) with 6 arms by using laser T-jump transient photometry method (Grad. Sch. Sci., Osaka City Univ.) ○MATSUMOTO, Mitsuhiro; ASOH, Taka-aki; SHOJI, Tatsuya; NISHIYAMA, Takashi; HORIBE, Hideo; TSUBOI, Yasuyuki

3B2-04 A laser T-jump study on phase separation dynamics of acrylamide copolymer aqueous solutions. (Grad. Sch. Sci., Osaka City Univ.) ○DEGUCHI, Teruki; MATSUMOTO, Mitsuhiro; ASOH, Taka-aki; SHOJI, Tatsuya; NISHIYAMA, Takashi; HORIBE, Hideo; TSUBOI, Yasuyuki

Chair: TAKAGI, Yumiko (9 : 50~10 : 30)

* 9:40-9:50: interval for laptop PC connection.(3B2-06, 3B2-07, 3B2-08, 3B2-09, 3B2-10)

3B2-06 Effects of Cation Structures on Temperature-Dependent Low-Frequency Spectral Features of Ionic Liquids (Grad. Sch. Adv. Integration Sci., Chiba Univ.) ○KAKINUMA, Shohei; SHIROTA, Hideaki

3B2-07 Solubilization of Amyloid Aggregates using Ionic Liquids (Dept. Appl. Chem., Nat. Def. Acad.) ○ISHIKAWA, Yuka; TAKEKIYO, Takahiro; YOSHIMURA, Yukihiro

3B2-08 Dimerization Constants of 7-Azaindole in Phosphonium-Based Ionic Liquids (Grad. Sch. Adv. Integration Sci., Chiba Univ.) ○TAKAHASHI, Kotaro; SHIROTA, Hideaki

3B2-09 Photoionization of *trans*-stilbene in acetonitrile observed with femtosecond time-resolved Near-IR spectroscopy (Fac. Sci., Gakushuin Univ.) ○KAJITA, Mizuho; TAKAYA, Tomohisa; IWATA, Koichi

3B2-10 Depth dependence of viscosity in lipid bilayers of DMPC liposomes evaluated with fatty acid modified with stilbene (Fac. Sci., Gakushuin Univ.; IIR, Tokyo Tech.) ○HAYASHI, Haruna; KITAMURA, Sho; TAKAYA, Tomohisa; MANJUSHA, Joshi; NAKAMURA, Hiroyuki; IWATA, Koichi

Nano Materials

Chair: IWATA, Koichi (10 : 50~11 : 50)

* 10:40-10:50: interval for laptop PC connection.(3B2-12, 3B2-15, 3B2-16, 3B2-17)

3B2-12 CSJ Award for Outstanding Young Women Chemists Studies on Photoexcitation Process Induced by Highly Localized Electromagnetic Field at Interfaces for Novel Photochemical Reactions (Grad. Sch. of Eng., Muroran Inst. of Tech.) ○TAKASE, Mai

3B2-15 Correlation between infrared spectrum and reactivity of TiO₂ and NaTaO₃ photocatalyst under water vapor environment (Dep. Chem., Sch. Sci., Kyoto Univ.) ○MARUOKA, Mitsuaki; SUGIMOTO, Toshiki; WATANABE, Kazuya; MATSUMOTO, Yoshiyasu

3B2-16 Exciton Dynamics and Carrier Transfer in CdSe/CdS Core/Shell Quantum Dots by Femtosecond State-Selective Excitation Spectroscopy (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○NONAKA, Kohei; OKUHATA, Tomoki; KTAYAMA, Tetsuro; WANG, Li; TAMAI, Naoto

3B2-17 Charge mapping of organic solar cell by time-resolved Electrostatic Force Microscope (Grad. Sch. Sci., Osaka Univ.) ○ARAKI, Kento; IE, Yutaka; ASO, Yoshio; OYAMA, Hiroshi; MATSUMOTO, Takuya

Saturday, March 18, PM

Single molecular measurement

Chair: AKUTAGAWA, Tomoyuki (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3B2-28)

3B2-28* CSJ Award for Creative Works Development of Single-Mo-

lecule Analysis Methods Using Nanogap Electrodes and Their Application to DNA Sequencing Technology (ISIR, Osaka Univ.) ○TANIGUCHI, Masateru

Nano Materials

Chair: NAKAJIMA, Atsushi (14 : 40~15 : 30)

- * 14:30-14:40: interval for laptop PC connection.(3B2-35, 3B2-37, 3B2-38, 3B2-39)
- 3B2-35*** Dependence of single molecule conductance of metalloporphyrins on the central metal ions (Grad. Sch. Sci., Osaka Univ.) ○TAMAKI, Takashi; YAMADA, Ryo; TADA, Hirokazu; OGAWA, Takuji
- 3B2-37** Single-molecule electronic study on nanographene (Sch. Sci., Tokyo Tech.) ○FUJII, Shintaro; KIGUCHI, Manabu
- 3B2-38** Nanoscale electrical measurement of Ru binuclear complex by conductive probe AFM (Grad. Sch. Sci., Osaka Univ.) ○TAKAGI, Tomohiro; OTSUKA, Yoichi; OZAWA, Hiroaki; HAGA, Masa-aki; MATSUMOTO, Takuya
- 3B2-39** Forming mechanism of single-molecule junction (Grad. Sch. Sci., Osaka Univ.; ISIR, Osaka Univ.) ○TANIMOTO, Sachie; MORIKAWA, Takanori; YOKOTA, Kazumitsu; TSUTSUI, Makusu; TANIGUCHI, Masateru

Chair: MATSUMOTO, Takuya (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(3B2-41, 3B2-42, 3B2-43, 3B2-45)
- 3B2-41** Excitation wavelength-dependency of two-photon photoluminescence from gold nanoparticles revealed by confocal optical microscopy (Grad. Sch. Advanced Sci. Eng., Waseda Univ.; Sch. Advanced Sci. Eng., Waseda Univ.) ○MA, Shomin; HIRAYANAGI, Yuta; IMURA, Kohei
- 3B2-42** Singlet fission dynamics in amorphous rubrene thin films (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TAKAHASHI, Shota; YAMADA, Kazuto; TANAKA, Shunsuke; WATANABE, Kazuya; SUGIMOTO, Toshiaki; MATSUMOTO, Yoshiyasu
- 3B2-43**** Dynamics of Electronically-Excited States on Alkanethiolate Self-Assembled Monolayer Functionalized with an Aromatic Molecular Moiety (Grad. Sch. Sci. Tech., Keio Univ.; Fac. Sci. Tech., Keio Univ.; ERATO, JST) ○SHIBUTA, Masahiro; HIRATA, Naoyuki; EGUCHI, Toyooki; NAKAJIMA, Atsushi
- 3B2-45*** Advanced fabrication and structural characterization of carboxy- and ester-terminated alkanethiolate self-assembled monolayers (Fac. Sci. Tech., Keio Univ.; Keio KIPAS; ERATO, JST) ○HIRATA, Naoyuki; SUGA, Shoichiro; NOGUCHI, Yuji; SHIBUTA, Masahiro; TSUNOYAMA, Hironori; EGUCHI, Toyooki; NAKAJIMA, Atsushi

Nano Chemistry

Chair: TANIGUCHI, Masateru (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(3B2-48, 3B2-49, 3B2-50, 3B2-51, 3B2-52)
- 3B2-48** Chemical Characterization of 3-5 Group Transition Metals-Encapsulating Si16 Cage Nanocluster Superatoms (Fac. Sci. Tech., Keio Univ.) ○KAMOSHIDA, Toshiaki; SHIBUTA, Masahiro; OHTA, Tsutomu; TSUNOYAMA, Hironori; NAKAJIMA, Atsushi
- 3B2-49*** Fabrication and evaluation of floating-gate memory composed of thiolate-protected gold nanoclusters (Fac. Sci. Tech., Keio Univ.) ○YOKOYAMA, Takaho; HIRATA, Naoyuki; TSUNOYAMA, Hironori; NEGISHI, Yuichi; NAKAJIMA, Atsushi
- 3B2-50*** A pulsed, huge helium droplet beam for the study of low temperature molecular dynamics (RIKEN) ○KUMA, Susumu; AZUMA, Toshiyuki
- 3B2-51** Direct Observation of Reactions on Single Graphene Sheet Dispersed in Solution (Yamagata Univ.) ○SATO, Hikaru; SANO, Masahito
- 3B2-52** Density Functional Theory Calculations on nonlinear optical properties of dimethylaminonitrostilbenes inside Carbon Nanotubes (KIT) ○YAMAMOTO, Wataru; YUMURA, Takashi; WAKASUGI, Takashi

Room B3

Fourth Building, Section A J443

Physical Chemistry -Chemical Kinetics and Dynamics-

Thursday, March 16, PM

Chair: YASUIKE, Tomokazu (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(1B3-25, 1B3-26, 1B3-28, 1B3-29)
- 1B3-25*** A fluorescence sensor for real-time monitoring of singlet oxygen. (Fac. Env.Earth Sci., Hokkaido Univ.) ○KOHARA, Reiko; BIJU, Vasudevanpillai
- 1B3-26*** Detection of OH radicals formed by the plasmonic excitation of Au-

TiO₂ photocatalyst under the existence of H₂O₂. (NNCT) ○MURAKAMI, Yoshinori; HAYASHI, Tomoya; NAKAMURA, Kyoko

- 1B3-28** Optical and photochemical properties of gold nanoparticle thin films prepared at a liquid-liquid interface (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○JIMBO, Atsuko; NISHIKADO, Yui; IMURA, Kohei
- 1B3-29**** Spectral properties and ultrafast dynamics of localized surface plasmon resonances in metal/insulator/metal nanostructures from the near field (RIES, Hokkaido Univ.) ○UENO, Kosei; YANG, Jinghuan; YU, Han; SUN, Quan; SHI, Xu; OSHIKIRI, Tomoya; KUBO, Atsushi; MATSUO, Yasutaka; GONG, Qi-huang; MISAWA, Hiroaki

Chair: IMURA, Kohei (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(1B3-32, 1B3-34, 1B3-35, 1B3-36, 1B3-37)
- 1B3-32**** Nanoparticle assembling by laser trapping at solution surface layer, giving structural color (NCTU) ○WANG, Shun-fa; YUYAMA, Ken-ichi; SUGIYAMA, Teruki; MASUHARA, Hiroshi
- 1B3-34** Proton transfer dynamics of 5-cyano-2-naphthol in ionic liquids (Grad. Sch. Eng., Doshisha Univ.) ○FUJII, Kaori; YASAKA, Yoshiro; UENO, Masakatsu; KIMURA, Yoshifumi
- 1B3-35** Excitation wavelength dependence of the emission dynamics of ionic liquids with dicyanoaurate (Fac. Sci. Eng., Doshisha Univ.) ○KIMURA, Yoshifumi; TANAKA, Saki; FUJII, Kaori; YASAKA, Yoshiro; UENO, Masakatsu
- 1B3-36** Laser microscopy of cyanine dyes on the surface of a levitated single microdroplet (Grad. Sch. Sci., Osaka City Univ.) ○OTANI, Takuya; SAKOTA, Kenji
- 1B3-37** Bubble generation and L-phenylalanine crystallization under focused CW laser irradiation at the air-solution interface (National Chiao Tung University) ○YUYAMA, Ken-ichi; CHEN, Jim Jui-kai; BIJU, Vasudevanpillai; SUGIYAMA, Teruki; MASUHARA, Hiroshi

Chair: TAKEUCHI, Satoshi (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(1B3-39, 1B3-41, 1B3-43)
- 1B3-39*** Molecular configuration dependent optical response of functional molecule coordinated metal cluster (ICR, Kyoto Univ.) ○SAKAMOTO, Masanori; TAHARA, Hirokazu; KIM, Hyeon-deuk; FURUBE, Akihiro; KANEMITSU, Yoshihiko; TERANISHI, Toshiharu
- 1B3-41**** Time-resolved FTIR study of the photoreaction of bacteriorhodopsin under high pressure (LCCMS, IMS; EDC, IMS) ○KUROKI, Kunisato; KIMURA, Sachio; AOYAMA, Masaki; FURUTANI, Yuji
- 1B3-43*** Study on the ion-transport mechanism of light-driven inward proton pump rhodopsin (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○INOUE, Keiichi; ITO, Shota; KATO, Yoshitaka; NOMURA, Yurika; SHIBATA, Mikihiro; UCHIHASHI, Takayuki; TSUNODA, Satoshi; KANDORI, Hideki

Chair: SAKOTA, Kenji (16 : 30~17 : 50)

- * 16:20-16:30: interval for laptop PC connection.(1B3-46, 1B3-48, 1B3-49, 1B3-51, 1B3-52, 1B3-53)
- 1B3-46*** Time-resolved study of protein reactions using the transient grating method combined with a stopped-flow apparatus (Dep. Chem., Sch. Sci., Kyoto Univ.) ○NAKASONE, Yusuke; TAKARAMOTO, Shunki; TERAZIMA, Masahide
- 1B3-48** Application of the stopped flow TG method to folding/unfolding reactions of protein (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TAKARAMOTO, Shunki; NAKASONE, Yusuke; TERAZIMA, Masahide
- 1B3-49*** Transient process of intermolecular disproportionation visualized by real-time transition state spectroscopy and substituent effect observed in the reaction (Grad. Sch. Eng., Kanagawa Univ.) ○HASHIMOTO, Sena; YABUSHITA, Atsushi; IWAKURA, Izumi
- 1B3-51** Selective Photo-cyclization of *cis,cis*-1,3-Cyclooctadiene induced by Pulsed Nd:YAG Laser (Fac. Eng., Kanagawa Univ.) ○IWAKURA, Izumi; HIROSE, Yui; ORISAKU, Keiko
- 1B3-52** Time-resolved observation of isomerization of azobenzene derivatives by Fourier transform two dimensional transient absorption spectroscopy with white light excitation (Grad. Sch. Sci., Kobe Univ.) YAMAZAKI, Ryokuhei; ○WADA, Akihide
- 1B3-53*** Direct observation of the tight Au-Au bond formation in [Au(CN)₂] oligomers by ultrafast time-domain Raman spectroscopy (Molecular Spectroscopy Lab., RIKEN; Grad. Sch. Sci. Eng., Univ. of Toyama) ○KURAMOCHI, Hikaru; TAKEUCHI, Satoshi; IWAMURA, Munetaka; NOZAKI, Koichi; TAHARA, Tahei

Friday, March 17, AM

Chair: KURASHIGE, Wataru (9 : 00 ~9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(2B3-01, 2B3-02, 2B3-03, 2B3-04)
- 2B3-01** Precise Liquid-phase Synthesis of Bismuth and Gallium clusters using a Dendrimer Template (Lab. Chem. Life Sci., Tokyo Tech.; ERATO, JST) ○WATANABE, Aiko; KAMBE, Tetsuya; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 2B3-02** Precise synthesis of typical metal clusters using dendritic polymers (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) ○KAMBE, Tetsuya; IMAOKA, Takane; YAMAMOTO, Kimihisa

2B3-03[#] Atomically-Precise Synthesis of Pt_n (*n* = 5-12) Clusters by Reductive Calcination of Cyclic Multinuclear Platinum Complexes (Lab. Chem. Life Sci., Tokyo Tech.) ○AKANUMA, Yuki; IMAOKA, Takane; YAMAMOTO, Kimihisa

2B3-04^{}** Water-soluble *N*-heterocyclic carbene protected gold nanoparticles for biological applications (WPI-ITbM, Nagoya Univ.) ○SALORINNE, Kirsi; MAN, Renee; LI, Henry; TAKI, Masayasu; NAMBO, Masakazu; CRUDDEN, Cathleen

Chair: YAMAMOTO, Kimihisa (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(2B3-07, 2B3-09, 2B3-11)

2B3-07^{}** Enhanced stability: Synthesis and characterizations of *N*-heterocyclic carbene-stabilized gold nanoparticles (WPI-ITbM, Nagoya Univ.) ○MAN, Renee; LI, Henry; NAMBO, Masakazu; CRUDDEN, Cathleen

2B3-09^{}** Detection and characterization of surface oxidized cobalt clusters (Grad. Sch. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.) ○TOMIHARA, Ryohei; KOYASU, Kiichirou; TSUKUDA, Tatsuya

2B3-11^{}** Atomically Precise Metallic Nano Cluster: Geometrical Structure and Electronic Property (Fac. Sci., TUS) ○NAIR, Lakshmi Vijayan; WAKAYAMA, Shota; TAKAGI, Shunjiro; KURASHIGE, Wataru; NEGISHI, Yuichi

Chair: OHSHIMO, Keiji (11 : 10~12 : 20)

* 11:00-11:10: interval for laptop PC connection.(2B3-14, 2B3-16, 2B3-18, 2B3-19, 2B3-20)

2B3-14^{}** Oxidative addition of haloalkanes to coinage metal anions M⁺ (M = Cu, Ag, Au) in the gas phase (Grad. Sch. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.) ○MURAMATSU, Satoru; KOYASU, Kiichirou; TSUKUDA, Tatsuya

2B3-16^{}** Methane Oxidation Properties of Tantalum Cationic Clusters Under Multi-Collision Conditions (Dept. of Chemistry, TUM) ○MASUBUCHI, Tsugunosuke; ECKHARD, Jan F.; TSCHURL, Martin; HEIZ, Ueli

2B3-18 Development of a ultra-fine microfluidic reactor for selective nanocluster synthesis (Fac. Sci. Tech., Keio Univ.) ○KIMURA, Shoichi; TSUNOYAMA, Hironori; NAKAJIMA, Atsushi

2B3-19 Size specific catalytic activity of Pd₁₃ nanoclusters immobilized on SrTiO₃(100) for Suzuki-Miyaura coupling reaction (Fac. Sci. Tech., Keio Univ.) ○KOMORI, Masafumi; ITO, Haruchika; SHIBUTA, Masahiro; EGUCHI, Toyoko; TSUNOYAMA, Hironori; NAKAJIMA, Atsushi

2B3-20 Electrochemical Water Reduction by Single-Size Platinum Nanocluster Deposited on Strontium Titanate (100) Electrode: Investigation on Size Effect and Stability (Fac. Sci. Tech., Keio Univ.; ERATO, JST; Grad. Sch. Sci., Tohoku Univ.; KIPAS) ○YAMANO, Yohei; KOBAYASHI, Ryota; ZHANG, Chuhang; EGUCHI, Toyoko; TSUNOYAMA, Hironori; NAKAJIMA, Atsushi

Friday, March 17, PM

Chair: ARAKAWA, Masashi (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2B3-28, 2B3-29, 2B3-30, 2B3-31, 2B3-32, 2B3-33)

2B3-28 Cluster size dependence in molecular adsorption reactions on copper cluster ions Cu_n⁺ (*n* = 2-60) (Grad. Sch. Sci., Tohoku Univ.; Sch. Sci., Tohoku Univ.; ayabo) ○OGAWA, Masato; AKIMOTO, Kengo; IWASAKI, Wataru; YAMAMOTO, Hiroaki; TONA, Masahide; TSUKAMOTO, Keizo; NAKANO, Motoyoshi; OHSHIMO, Keiji; MISAIZU, Fuminori

2B3-29 Ultraviolet photodissociation reaction processes of complexes of alkaline earth metal monocations with argon studied by imaging detection (Grad. Sch. Sci., Tohoku Univ.) ○NAKASHIMA, Yuji; OKUTSU, Kenichi; FUJIMOTO, Keita; NAKANO, Motoyoshi; OHSHIMO, Keiji; MISAIZU, Fuminori

2B3-30 Desorption of Oxygen from Cationic Niobium Oxide Clusters by Gas Phase Thermal Desorption Spectrometry (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○MASUZAKI, Daigo; NAGATA, Toshiaki; MIYAJIMA, Ken; MAFUNE, Fumitaka

2B3-31 Reaction of platinum oxide clusters and nitric oxide investigated by thermal desorption spectrometry in the gas phase (Grad. Sch. Arts and Sci., The Univ. of Tokyo) YAMAGISHI, Jun; ○MIYAJIMA, Ken; MAFUNE, Fumitaka

2B3-32 Desorption of the oxygen from gold oxide clusters using thermal desorption spectrometry (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○YAMAGUCHI, Masato; MIYAJIMA, Ken; MAFUNE, Fumitaka

2B3-33 Thermal stability and structure of gold-copper oxide cluster cations (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KUDO, Satoshi; YOSHINOCHI, Eima; MAFUNE, Fumitaka

Chair: TSUNOYAMA, Hironori (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(2B3-35, 2B3-36, 2B3-37, 2B3-38, 2B3-39)

2B3-35 The low-temperature ion mobility mass spectrometer combined with an electrospray ionization source and a quadrupole ion trap (IEHE, Tohoku Univ.; Grad. Sch. Sci., Tohoku Univ.) ○OHSHIMO, Keiji; NISHI, Yuito; YABE, Kenta; NAKANO, Motoyoshi; MISAIZU, Fuminori

2B3-36 Carbon nano onions observed by ion mobility mass spectrometry (Grad. Sch. Sci., Tohoku Univ.) MORIYAMA, Ryoichi; WU, Jenna;

○NAKANO, Motoyoshi; OHSHIMO, Keiji; MISAIZU, Fuminori

2B3-37 Development of Multi-stage Ion Trap Ion Mobility Measurement System and Separation of Nano Materials (Fac. Sci., Toho Univ.) ○SUGAI, Toshiaki; JINNOUCHI, Ryota; HOSHINO, Yuudai; TERADA, Natsuki; SHIINO, Kyoto; HAMANO, Yuuta; MORITA, Hiroki

2B3-38 Reactivity of transition-metal-doped silver cluster ions Ag_mM⁺ (M = Sc-Ni) toward oxygen: elemental effects of the dopant on size dependence of reactivity (Grad. Sch. Sci., Kyushu Univ.) ○KAWANO, Tomoki; SARUGAKU, Shun; MATSUMOTO, Junpei; ARAKAWA, Masashi; TERASAKI, Akira

2B3-39^{}** Generation and Reaction of Mineral Clusters Related to Chemistry in the Interstellar Environment (Fac. Sci., Kyushu Univ.) ○ARAKAWA, Masashi; TERASAKI, Akira

Chair: TSUNOYAMA, Hironori (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2B3-42, 2B3-44, 2B3-45, 2B3-46, 2B3-47)

2B3-42^{*} Exciton dynamics of colloidal perovskite nanoparticles system by means of widefield femtosecond light scattering microscopy (Kwansei Gakuin Univ.) ○KATAYAMA, Tetsuro; SUENAGA, Harunobu; OKUHATA, Tomoki; TAMAI, Naoto

2B3-44 Infrared photodissociation spectroscopy of Rh₆O_m⁺ (*m*=6-10) by using an infrared free electron laser (Grad. Sch. Arts and Sci., The Univ. of Tokyo; Radboud Univ.) ○KOYAMA, Kohei; NAGATA, Toshiaki; KUDOH, Satoshi; MIYAJIMA, Ken; HUITEMA, Douwe; CHERNYY, Valeri; BAKKER, Joost; MAFUNE, Fumitaka

2B3-45 Infrared photodissociation spectroscopy of rhodium clusters with adsorbed nitric oxide (Grad. Sch. Arts and Sci., The Univ. of Tokyo; Radboud Univ.) ○NAGATA, Toshiaki; KOYAMA, Kohei; KUDOH, Satoshi; MIYAJIMA, Ken; BAKKER, Joost; MAFUNE, Fumitaka

2B3-46 The photoluminescence due to the interaction of bismuth dimer and neon atoms in solid neon. (Grad. Sch. Sci. Eng., Kindai Univ.) ○ENDO, Asuka; HATANAKA, Miho; MORISAWA, Yusuke; WAKABAYASHI, Tomonari

2B3-47[#] Anion Photoelectron Spectroscopy of Thiolate-Protected Au₂₅ Clusters in Gas Phase (Grad. Sch. Sci., The Univ. of Tokyo; Fac. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.) ○HIRATA, Keisuke; MURAMATSU, Satoru; YAMASHITA, Keishiro; TAKANO, Shinjiro; YAMAZOE, Seiji; KOYASU, Kiichirou; TSUKUDA, Tatsuya

Saturday, March 18, AM

Chair: BANNO, Taisuke (9 : 00 ~ 9 : 50)

* 8:50-9:00: interval for laptop PC connection.(3B3-01, 3B3-02, 3B3-03, 3B3-04, 3B3-05)

3B3-01 Determination of the threshold of the concentration of camphor molecules to decide the period of oscillation for a camphor boat (Grad. Sch. Sci., Hiroshima Univ.) ○GUNJIMA, Yoh; SUEMATSU, J. Nobuhiko; KITAHATA, Hiroyuki; GORECKI, Jerzy; IRIE, Yasutaka; NAKATA, Satoshi

3B3-02 Oscillatory motion and bifurcation of motion of self-propelled motor driving by decomposition of H₂O₂ (Grad. Sch. Sci., Hiroshima Univ.) ○NOMURA, Mio; YAMAMOTO, Hiroya; IZUMI, Shunsuke; SUEMATSU, Nobuhiko; IKURA, Yumihiko; AMEMIYA, Takashi; NAKATA, Satoshi

3B3-03 Synchronization of two self-propelled strings (Grad. Sch. Sci., Hiroshima Univ.) ○KAYAHARA, Katsuhiko; ELLIOTT, Ginder; NAGAYAMA, Masaharu; NISHIMORI, Hiraku; NAKATA, Satoshi

3B3-04 Formation mechanism of reaction-diffusion structures controlled by stability of nuclei. (Fac. Sci., Yamagata Univ.) ○ITATANI, Masaki; SHIMIZU, Yushiro; FANG, Qing; UNOURA, Kei; NABIKI, Hideki

3B3-05 Dynamics of Self-Propelled Motion Depending on a Chemical Kinetics and Its Application to Chemotactic Behavior (Meiji Univ., Int. Math. Sci.) ○SUEMATSU, Nobuhiko; HAMANO, Yuko; IKURA, Yumihiko

Chair: SUEMATSU, Nobuhiko (10 : 00~10 : 50)

* 9:50-10:00: interval for laptop PC connection.(3B3-07, 3B3-08, 3B3-10, 3B3-11)

3B3-07 Stochastic behaviors in the chiral amplification in the Soai system and influence of precipitation on the behavior (Fac. Sci. Tech., Keio Univ.) ○IMURA, Maki; BANNO, Taisuke; ASAKURA, Kouichi

3B3-08^{*} Phototactic behavior of self-propelled oil droplets in a surfactant solution (Fac. Sci. Tech., Keio Univ.) ○BANNO, Taisuke; KANEKO, Sho; ASAKURA, Kouichi

3B3-10 Gold nanoparticles formation by reaction of recycling reductant (Yokohama Natl. Univ.) ○AKAZAWA, Keita; SHIBATA, Kenniti; AMEMIYA, Takashi

3B3-11 Magnetic field effect for ternary oxidation-reduction system composed from hemoglobin/oxalic acid/peroxodisulfate ion (Fac. Eng., KAIT) ○KAZUHIRO, Honda

Chair: SUGAI, Toshiaki (11 : 00~11 : 50)

* 10:50-11:00: interval for laptop PC connection.(3B3-13, 3B3-14, 3B3-16)

3B3-13 Withdrawn

Room B4

Fourth Building, Section A J444

Saturday, March 18, PM

Chair: IWATA, Koichi (13 : 00~13 : 50)

* 12:50-13:00: interval for laptop PC connection.(3B3-25, 3B3-28)

3B3-25 Young Scholar Lectures of CSJ Electron transfer mechanism in photosystem II as revealed by spectroelectrochemistry (Grad. Sch. Sci., Nagoya Univ.) OKATO, Yuki**3B3-28**** Ultrafast excitation energy transfer of hybrid light-harvesting antenna complex system (Sch. Eng. Sci., Osaka Univ.) OYONEDA, Yusuke; MIZUTANI, Naoto; MORI, Daiki; NOJI, Tomoyasu; KONDO, Masaharu; MIYASAKA, Hiroshi; ITOH, Shigeru; NAGASAWA, Yutaka; DEWA, Takehisa

Chair: KATO, Yuki (14 : 00~14 : 40)

* 13:50-14:00: interval for laptop PC connection.(3B3-31, 3B3-33, 3B3-34)

3B3-31** Structural relaxation dynamics of poly(p-phenylenevinylene) derivative in solution: Direct observation by ultrafast near-IR spectroscopy (Fac. Sci., Gakushuin Univ.) OTAKAYA, Tomohisa; SHINOHARA, Masanori; IWATA, Koichi**3B3-33** Modification of clay nano sheet edges with organic dyes and the elucidation of the adsorption distribution of cationic dyes by energy transfer as molecular ruler (Urban Environmental Sci., TMU) ONAKAYAMA, Ayumi; MIZUNO, Junya; OHTANI, Yuta; SHIMADA, Tetsuya; TAKAGI, Shinsuke**3B3-34** Preparation of Organometal Halide Perovskite Nanoparticles with Different Quantum Confinement and their Exciton Dynamics (Sch. Sci. Tech., Kwansai Gakuin Univ.) OSUENAGA, Harunobu; OKUHATA, Tomoki; KATAYAMA, Tetsuro; TAMAI, Naoto

Chair: KATAYAMA, Tetsuro (14 : 50~15 : 40)

* 14:40-14:50: interval for laptop PC connection.(3B3-36, 3B3-37, 3B3-38, 3B3-39, 3B3-40)

3B3-36 Structural kinetics of PEFC Pt/C cathode catalyst for gas exchange/cell voltage operation by time-resolved QXAFS (Grad. Sch. Sci., Nagoya Univ.) OTAGUCHI, Masahiro; MATSUI, Hirosuke; ISHIGURO, Nozomu; SEKIZAWA, Oki; SAKATA, Tomohiro; URUGA, Tomoya; TADA, Mitsuki**3B3-37** Theoretical study of solvation structure around the electrode surface (Sch. Sci., Nagoya Univ.) ONAKATAKI, Shota; NANJO, Chihiro; AWAGA, Kunio; YOKOGAWA, Daisuke; IRLE, Stephan**3B3-38*** Study on colligative behaviors of redox couples in room-temperature ionic liquids (Dept. of Material & Life Chem., Kanagawa Univ.) MATSUBARA, Yasuo; ABE, Kaito; IJIMA, Tetsuya; SAITO, Kazuki; KOIDE, Yoshihiro**3B3-39** Electronic spectra of catechol-(ammonia)_n clusters and their excited state hydrogen transfer (Lab. Chem. Life Sci., Tokyo Tech.) OOSHITA, Akira; MIYAZAKI, Mitsuhiro; FUJII, Masaaki**3B3-40** Coulomb Explosion of Mn₂(CO)₁₀ in Intense Femtosecond Laser Fields (Grad. Sch. Sci., Osaka City Univ.) OTANAKA, Hiroki; MATSUMOTO, Takuya; NAKASHIMA, Nobuaki; YATSUHASHI, Tomoyuki

Chair: SUGAI, Toshiki (15 : 50~16 : 30)

* 15:40-15:50: interval for laptop PC connection.(3B3-42, 3B3-43, 3B3-44, 3B3-45)

3B3-42 Ionization of mononuclear chromium complexes in femtosecond laser fields: ionization wavelength effects (Grad. Sch. Sci., Osaka City Univ.) HISAJIMA, Kento; NAKASHIMA, Nobuaki; YATSUHASHI, Tomoyuki**3B3-43** Muon Spin Resonance Analysis of the P-Heterocyclic Open-Shell Singlet Compounds (Sch. Mater. & Chem. Tech., Tokyo Tech.; KEK; TRIUMF) ITO, Shigekazu; UETA, Yasuhiro; MIKAMI, Koichi; KOJIMA, Kenji, M.; MCKENZIE, Iain**3B3-44** Analysis of radical reaction dynamics in interface of vesicle studied by magnetic field switching (Fac. Sci., Saitama Univ.; Grad. Sch. Sci., Eng., Saitama Univ.; Grad. Sch. Sci. and Technol., Niigata Univ.) YAMADA, Chikako; SATO, Kozue; MIURA, Tomoaki; IKOMA, Tadaaki; MAEDA, Kiminori**3B3-45** Structural analysis of correlated triplet pairs generated by singlet fission (Fac. Sci., Saitama Univ.) OISHIKAWA, Kei; YAGO, Tomoaki; WAKASA, Masanobu

Colloid and Interface Chemistry

Thursday, March 16, PM

Chair: KANO, Hirofumi (13 : 00~14 : 20)

* 12:50-13:00: interval for laptop PC connection.(1B4-25, 1B4-27, 1B4-29, 1B4-31)

1B4-25** Low temperature Adsorption Based Oxygen Isotope separation (X-Breed, Shinshu Univ.) OKUMAR, Sanjeev; FUTAMURA, Ryusuke; ITO, Hiromitsu; KANEKO, Katsumi**1B4-27**** Effects of polarization on superionic state in nanopores between conductive carbon walls (X-Breed, Shinshu Univ.) FUTAMURA, Ryusuke; HIYAMA, Taku; SIMON, Patrice; SALANNE, Mathieu; GOGOTSI, Yury; KANEKO, Katsumi**1B4-29**** Dynamic Response of Porous Coordination Crystal Surface Monitored by in-situ Atomic Force Microscopy (WPI-iCeMS, Kyoto Univ.) HOSONO, Nobuhiko; KITAGAWA, Susumu**1B4-31**** Graphene nanoribbon synthesis associated with a dissociation of carbon-fluorine bonds (Grad. Sch. Mat. Sci., NAIST; Advanced System Research & Development Unit, Fujitsu Limited) HAYASHI, Hironobu; YAMAGUCHI, Jun-ichi; JIPPO, Hideyuki; SATO, Shintaro; YAMADA, Hiroko

Chair: MURAKOSHI, Kei (14 : 30~15 : 40)

* 14:20-14:30: interval for laptop PC connection.(1B4-34, 1B4-35, 1B4-36, 1B4-37, 1B4-38, 1B4-39)

1B4-34 Effect of reaction fields on gas sorption property of an elastic layer-structured MOF (ELM-11) (Grad. Sch. Sci., Chiba Univ.) TOGO, Mari; KAJIRO, Hiroshi; KANO, Hirofumi**1B4-35** Kinetic study of adsorption process on ZIF-8 for some bulky molecules (The Museum of Osaka Univ.; Grad. Sch. Sci., Osaka Univ.) YAMATANI, Tatsuya; UEDA, Takahiro**1B4-36** Ring Size Dependent Water Adsorption on Cycloparaphenylenes (Grad. Sch. Sci., Nagoya Univ.; ERATO, JST; WPI-ITbM, Nagoya Univ.) OSAKAMOTO, Hiroto; OZAKI, Noriaki; ITAMI, Kenichiro**1B4-37** Fabrication of Tailor-made Photocatalyst Using Si-added Amorphous Carbon Nanoparticles (Grad. Sch. Sci. Tech., Yamaguchi Univ.) OKAFUJI, Keigo; KOBAYASHI, Ryutarou; NARAGINO, Hiroshi; HONDA, Kensuke**1B4-38** Control of pore characteristics by addition of substance (Grad. Sch. Sci. Technol., Shinshu Univ.) DEGUCHI, Minoru; ASAKURA, Keisuke; KOREKANE, Yuriko; OZEKI, Sumio; UCHIDA, Taro; HIYAMA, Taku**1B4-39*** Theoretical Study of the Influence of Water Molecules on Adhesion Phenomena at Aluminum-Epoxy Resin Interface (IMCE, Kyushu Univ.) MURATA, Hiroyuki; TANAKA, Hiromasa; SEMOTO, Takayuki; YOSHIZAWA, Kazunari

Chair: YAGI, Ichizo (15 : 50~17 : 00)

* 15:40-15:50: interval for laptop PC connection.(1B4-42, 1B4-43, 1B4-45, 1B4-46, 1B4-47, 1B4-48)

1B4-42 Roles of electrostatic and van der Waals forces in the adhesion between silica surface and epoxy resin (IMCE, Kyushu Univ.) HIGUCHI, Chisa; SEMOTO, Takayuki; TANAKA, Hiromasa; YOSHIZAWA, Kazunari**1B4-43*** Ion transportation between graphene electrodes using molecular dynamics simulation (Grad. Sch. Sci., Chiba Univ.) SHIMIZU, Kengo; WATANABE, Takumi; AKAIWA, Jun; OHBA, Tomonori**1B4-45** Local Proton Permeability of Monolayer Graphene/Au(111) Electrode (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) NAKASHIMA, Koji; KUMAGAI, Ryota; YASUDA, Satoshi; MURAKOSHI, Kei**1B4-46** Aggregates behavior of Thiazole orange on clay (Urban Environmental Sci., TMU) MOMMA, Minoru; TOKIEDA, Daiki; SHIMADA, Tetsuya; TAKAGI, Shinsuke**1B4-47** Investigation on oxygen evolution activity of fluorine doped carbon electrode (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) KIM, Jeheon; ZHOU, Ruifeng; YASUDA, Satoshi; MURAKOSHI, Kei**1B4-48** Withdrawn

Chair: EGUCHI, Miharuru (17 : 10~18 : 10)

* 17:00-17:10: interval for laptop PC connection.(1B4-50, 1B4-51, 1B4-53, 1B4-54, 1B4-55)

1B4-50 Functionalization for Oxygen Reduction Reaction Activity by Incorporation of Graphitic-N in Hydrogenated Amorphous Carbon Films with Plasma-enhanced Chemical Vapor Deposition (Fac. Sci., Yamaguchi Univ.) WAKI, Yuta; OTOMO, Shinpei; NARAGINO, Hiroshi; HONDA, Kensuke**1B4-51*** Chiral recognition by polymerized nano-domain in heterogeneous lipid membrane (Grad. Sch. Eng. Sci., Osaka Univ.) OKAMOTO, Yukihiro; KISHI, Yusuke; SUGA, Keishi; UMAKOSHI, Hiroshi

- 1B4-53** Specific surface free energy of fluorite (Fac. Eng., Shinshu Univ.)
○SUZUKI, Takaomi; TUKAGOSHI, Ayano
- 1B4-54** Specific surface free energy of corundum crystals studied by contact angle of liquid droplet (Fac. Eng., Shinshu Univ.) ○ENDO, Akira; SUZUKI, Takaomi
- 1B4-55** Raman and fluorescence enhancement by MoS₂ flakes (Grad. Sch. Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) ○SAKAMOTO, Masanori; SAITOW, Ken-ichi

Friday, March 17, AM

Chair: HASHIZUME, Mineo (9:00~10:10)

- * 8:50-9:00: interval for laptop PC connection.(2B4-01, 2B4-02, 2B4-03, 2B4-04, 2B4-05, 2B4-06)
- 2B4-01** Fabrication and photoelectrochemical application of Hierarchical layered films of polythiophenes (Sch. Eng., The Univ. of Shiga Pref.)
○AKIYAMA, Tsuyoshi; HIRATA, Shuya; KUMAGAWA, Yu; SUZUKI, Atsushi; OKU, Takeo
- 2B4-02** Development of gold nanoparticle-titanium oxide ultra thin-films toward photocatalytic application (Sch. Eng., The Univ. of Shiga Pref.; Osaka. Pref. Univ. Col. Tech.) ○MITSUKAWA, Shota; AKIYAMA, Tsuyoshi; HINOUE, Mikiya; HIGASHIDA, Suguru; OKU, Takeo
- 2B4-03** Oxygen reduction activity of Pt-deposited carbon electrodes with hydrophobicity. (Grad. Sch. Env. Sci., Hokkaido Univ.) ○YANO, Shohei; KATO, Masaru; YAGI, Ichizo
- 2B4-04** Frictional property and tactile texture of water repellent cosmetic powders (Grad. Sch. Sci., Eng., Yamagata Univ.) ○KIKEGAWA, Kana; YAMAGUCHI, Azusa; TSUCHIYA, Reichi; DOI, Moeko; NAGATANI, Noboru; NONOMURA, Yoshimune
- 2B4-05** Artificial skin which permeable cosmetic cream (Grad. Sch. Sci., Eng., Yamagata Univ.) ○SHIMIZU, Rana; NONOMURA, Yoshimune
- 2B4-06** Effects of chemical surface properties of metal substrates on adsorption of MoDTC (NICHIC, Tohoku Univ.; IMRAM, Tohoku Univ.; WPI-AIMR, Tohoku Univ.) ○PHAN, Quynh Thi Nhu; MIZUKAMI, Masashi; TANABE, Tadao; KURIHARA, Kazue

Chair: MIZUKAMI, Masashi (10:20~11:20)

- * 10:10-10:20: interval for laptop PC connection.(2B4-09, 2B4-10, 2B4-11, 2B4-12, 2B4-13)
- 2B4-09** Immobilization of Hydrophilic Polymers on Poly(tetrafluoroethylene) Substrate Surfaces Using Supercritical Fluids (Fac. Eng., TUS; Grad. Sch. Chem. Sci. Technol., TUS) ○UEDA, Kohdai; HURUKAWA, Akane; ZEMBA, Takashi; OTAKE, Katsuto; IJIMA, Kazutoshi; HASHIZUME, Mineo
- 2B4-10** Adhesion between Polymer Films and Metal Plates Using Polymer-Binding Peptides (Fac. Eng., TUS; Grad. Sch. Chem. Sci. Technol., TUS; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NABETANI, Mako; TAKAHASHI, Takuya; NAGAHAMA, Hiroumi; IJIMA, Kazutoshi; SAWADA, Toshiki; SERIZAWA, Takeshi; HASHIZUME, Mineo
- 2B4-11** Preparation of Assembling Structures of Bionanomaterials on Substrates Utilizing Electric-Field Induced Fluid Flows (Fac. Eng., TUS; Grad. Sch. Eng., TUS) ○UNE, Makako; HAYASHI, Takuhiro; MOTOSUKE, Masahiro; IJIMA, Kazutoshi; HASHIZUME, Mineo
- 2B4-12** Precision control of Plasmonic optical properties for Au Nanodimer Structures Realized by Electrochemical Method (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○SHUNPEI, Oikawa; HIRO, Minamimoto; KEI, Murakoshi
- 2B4-13*** Theoretical consideration of wetting, adhesion and friction as first-order phase transition (Dept. of Chem., Asahikawa Med. Univ.; Grad. Sch. Sci., Eng., Yamagata Univ.) ○MAYAMA, Hiroyuki; AITA, Yuuki; NONOMURA, Yoshimune

Asian International Symposium -Colloid and Surface Chemistry-

Friday, March 17, PM

Chair: Imura, Kenichi (13:00~13:50)

- 2B4-25#** Keynote Lecture Development of Lipid Bilayer Platforms for Performing Various Separation Processes to Purify Cell Membrane Bound Species (National Taiwan Univ.) ○Ling, Chao (13:00~13:30)
- 2B4-28#** Invited Lecture Self-Aggregation Properties of Diversely Functionalized Cationic Gemini Surfactants Containing Different Headgroups, Spacer and Alkyl Chain Lengths (TUS) ○Avinash, Bhadani (13:30~13:50)

Chair: Imura, Tomohiro (13:50~14:50)

- 2B4-30#** Invited Lecture Specific ion effects on counterion binding in surfactant adsorbed films studied through total reflection XAFS (Kyushu Univ.) ○Imai, Yosuke (13:50~14:10)
- 2B4-32#** Invited Lecture Scattering and spectroscopic study on the hydration and phase behavior of surfactant solutions (Lion corp.) ○Ogura, Taku (14:10~14:30)
- 2B4-34#** Invited Lecture Composition and Temperature Sensitive Conducting Viscoelastic Gel (NIMS) ○Rekha, G. Shrestha (14:30~14:50)

Chair: Sakai, Hideki (15:10~16:00)

- 2B4-38#** Keynote Lecture Photoswitchable sugar surfactants: controlling self-assembly with light (Monash Univ.) ○Rico, Tabor (15:10~15:40)
- 2B4-41#** Invited Lecture Control of molecular machines at the interface (NIMS) ○Nakanishi, Waka (15:40~16:00)

Chair: Iiyama, Taku (16:00~17:00)

- 2B4-43#** Invited Lecture Electrochromic Characteristics of a Three-Dimensional Nickel-Borate Thin Film (TUS) ○Ke-Hsuan, Wang (16:00~16:20)
- 2B4-45#** Invited Lecture Synthesis of sugar-derived hierarchical porous carbons and their potential applications (AIST) ○Kubo, Shiori (16:20~16:40)
- 2B4-47#** Invited Lecture Fabrication of Zinc Oxide Single Crystal Particles Using Amphiphiles (Chiba Inst. of Tech.) ○Shibata, Hirobumi (16:40~17:00)

Colloid and Interface Chemistry

Saturday, March 18, AM

Chair: FUJIMORI, Atsuhiko (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(3B4-01, 3B4-03, 3B4-05)
- 3B4-01#** Isolation and characterization of micrometer-sized water droplets coated with self-assembled fullerene films (Grad. Sch. Sci., The Univ. of Tokyo) ○MADDALA, Sai; HARANO, Koji; NAKAMURA, Eiichi
- 3B4-03#** Multi-Focal Characterization for Micro-Phase Separation Behavior of Liposome Membrane (Grad. Sch. Eng. Sci., Osaka Univ.) ○SUGA, Keishi; BUL, Tham T; AKIZAKI, Kei; OKAMOTO, Yukihiro; UMAKOSHI, Hiroshi
- 3B4-05#** Control of Orientation of Chlorophyll a on Lipid Bilayer Membrane and Its Photo-Function (Grad. Sch. Eng. Sci., Osaka Univ.) ○TAGUCHI, Shogo; SUGA, Keishi; HAYASHI, Keita; OKAMOTO, Yukihiro; NAKAMURA, Hidemi; UMAKOSHI, Hiroshi

Chair: MAKIURA, Rie (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(3B4-08, 3B4-10, 3B4-11, 3B4-12, 3B4-13)
- 3B4-08#** Direct measurement of blunt end stacking between DNA molecules by atomic force microscopy (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SEKINE, Taito; KANAYAMA, Naoki; OZASA, Kazunari; NYU, Takashi; HAYASHI, Tomohiro; MAEDA, Mizuo
- 3B4-10** Evaluation of adhesion property of polymer nanosheets to biological tissue surface (Center for Advanced Bio. Sci., Waseda Univ.) ○ISAO, Takahashi; KENT, Yamagishi; NOBUTAKA, Sato; SHINJI, Takeoka; TOSHINORI, Fujie
- 3B4-11** Synthesis and self-assembly of tooth-brush like block copolymers with poly(acetyl)ethyleneimines brushes (Dept. of Material & Life Chem., Kanagawa Univ.) ○TAKITA, Moemi; WONG, Wenli; KAIKAKE, Katsuya; JIN, Ren-hua
- 3B4-12** Real-time observation of kinetics in absorption onto gas-water interface of ferritin molecules by Quasi Elastic Laser Scattering method (Nippon Institute of Technology) ○FUJITA, Yuji; SANO, Ken-ichi; IKEZOE, Yasuhiro
- 3B4-13** Layer-by-Layer Thin Films Prepared on Plant-derived Superhydrophobic Surfaces (Fac. Sci. Eng., Doshisha Univ.) ○SHIMANAKA, Shoko; HIGASHI, Nobuyuki; KOGA, Tomoyuki

Chair: KOGA, Tomoyuki (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(3B4-15, 3B4-16, 3B4-17, 3B4-18, 3B4-20)
- 3B4-15** Effect on the Surface-modified Organic Molecules which Causes Phase-separated Patterning in the Integrated Layer of Magnetic Nanoparticles (Grad. Sch. Sci., Eng., Saitama Univ.; Fac. Eng., Saitama Univ.) ○SHIDARA, Yusaku; YUNOKI, Takeru; FUJIMORI, Atsuhiko
- 3B4-16** Bioconjugation to Organized Magnetic Nanoparticle Layer Using Organo-modified Agent Having Hydrophilic Groups at Both Ends of Molecules (Fac. Eng., Saitama Univ.; Grad. Sch. Sci., Eng., Saitama Univ.) ○YUNOKI, Takeru; SHIDARA, Yusaku; FUJIMORI, Atsuhiko
- 3B4-17** Synthesis of highly-oriented metal-organic framework nanosheet crystals composed of triphenylene derivatives at air/liquid interfaces (Grad. Sch. Eng., Osaka Pref. Univ.; PRESTO, JST) ○OHATA, Takashi; MAKIURA, Rie
- 3B4-18#** Size and crystallinity control in hydrogen-bonded porous molecular nanosheets assembled at air/liquid interfaces (Grad. Sch. Eng., Osaka Pref. Univ.; PRESTO, JST) TANIGUCHI, Azusa; ○MAKIURA, Rie
- 3B4-20** Water-Soluble Polysiloxane Ultrathin Film (Sch. Eng., Nagoya Univ.) ○UENO, Yuuma; WAKITANI, Naoyuki; HARA, Mitsuo; NAGANO, Shusaku; SEKI, Takahiro

Saturday, March 18, PM

Chair: SUGA, Keishi (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(3B4-28, 3B4-29, 3B4-30, 3B4-31, 3B4-32, 3B4-33)
- 3B4-28** Elucidation of the Origin of Nanofiber Morphogenesis in the

Monomolecular Layer of Thixotropic Gemini-type Surfactant Molecules (Grad. Sch. Sci., Eng., Saitama Univ.; Fac. Eng., Saitama Univ.; Kusumoto Chemicals Ltd.) OIZUKA, Manami; NAKAGAWA, Yuto; SATO, Eiichi; FUJIMORI, Atsuhiko

3B4-29 Organization of Hierarchically Structured Thixotropic Molecular Assembly based on Supramolecular Network of Hydrogen Bonding (Fac. Eng., Saitama Univ.; Grad. Sch. Sci., Eng., Saitama Univ.; Kusumoto Chemicals Ltd.) ONAKAGAWA, Yuto; IIZUKA, Manami; SATOU, Eiichi; FUJIMORI, Atsuhiko

3B4-30 Influence of the molecular packing of a Langmuir-Blodgett film of a partly fluorinated myristic acid on the surface hydrophobicity (ICR, Kyoto Univ.; Grad. Sch. Sci. Tech., Gunma Univ.; BRD, AIST; Grad. Sch. Sci., Kobe Univ.) OKISE, Ryuma; SHIOYA, Nobutaka; SHIMOAKA, Takafumi; MORITA, Kohei; SONOYAMA, Masashi; AMII, Hideki; TAKAGI, Toshiyuki; KANAMORI, Toshiyuki; EDA, Kazuo; HASEGAWA, Takeshi

3B4-31 Study on an aggregation factor of amphiphiles involving a perfluoroalkyl group using IR spectroscopy (ICR, Kyoto Univ.; Fac. Edu., Chiba Univ.) OKUKAI, Hironori; SHIMOAKA, Takafumi; YAMADA, Norihiro; HASEGAWA, Takeshi

3B4-32 Establishment of Nanodispersion Technology in General Organic Solvent Contributing to Formation of Interfacial Single Particle Layer of Organo-nanodiamond (Grad. Sch. Sci., Eng., Saitama Univ.; Grad. Sch. Sci., Eng., Tokyo Tech.) OMENG, Qi; TASAKI, Taira; AKASAKA, Shuichi; FUJIMORI, Atsuhiko

3B4-33 Fabrication of Heat-resistant Organo-modified Nanodiamond Contributing to Nanohybridization with Transparent Polymers having High Melting Point (Fac. Eng., Saitama Univ.; Grad. Sch. Sci., Eng., Saitama Univ.; Grad. Sch. Sci., Eng., Tokyo Tech.) OGUO, Yifei; MENG, Qi; TASAKI, Taira; AKASAKA, Shuichi; FUJIMORI, Atsuhiko

Chair: TAKEOKA, Shinji (14 : 40~15 : 50)

* 14:30-14:40: interval for laptop PC connection.(3B4-35, 3B4-36, 3B4-37, 3B4-38, 3B4-39, 3B4-40, 3B4-41)

3B4-35 Krafft transition in an aqueous solution of nonionic surfactants with high hydrophilicity (Grad. Sch. Sci. Eng., TMU) OKAWABATA, Youhei; KATO, Tadashi

3B4-36 n-alkane effect on bilayers of nonionic surfactant vesicle below the Krafft temperature (Grad. Sch. Sci. Eng., TMU) OZAKI, Ryota; KAWABATA, Youhei; KATO, Tadashi

3B4-37 Addition effect of nonionic surfactants on bilayers composed of the diester quaternary ammonium salt below the melting temperature (Grad. Sch. Sci. Eng., TMU) OMASAOA, Sachiko; KAWABATA, Youhei; KATO, Tadashi

3B4-38 Chain Length-Dependences of the Perfluoroalkyl Group on Thermal Properties of Novel Partially Fluorinated Dipalmitoylphosphatidylcholines (Grad. Sch. Sci. Tech., Gunma Univ.; BRD, AIST; ICR, Kyoto Univ.) OYANAGI, Tamami; MOTEGI, Toshinori; TAKAGI, Toshiyuki; TAKAHASHI, Hiroshi; AMII, Hideki; HASEGAWA, Takeshi; KANAMORI, Toshiyuki; SONOYAMA, Masashi

3B4-39 Higher-order structure and photointermediates of bacteriorhodopsin reconstituted into lipid bicells consisting of diheptanoylphosphatidylcholine and DMPC (Grad. Sch. Sci. Tech., Gunma Univ.; BRI, AIST) ONAKAJIMA, Masato; MOTEGI, Toshinori; KAWASAKI, Kazunori; SONOYAMA, Masashi

3B4-40 Artificial Phospholipids with a Thermotropic Liquid-Crystalline Azobenzene Moiety: Self-Organization Structure Evaluation and Photo-Responsive of Self-Organized Giant Vesicles (IMRAM, Tohoku Univ.) OOBATA, Shihou; MA, Su; SASADE, Natsuki; MATSUBARA, Masaki; MURAMATSU, Atsushi; FUKAMINATO, Tsuyoshi; KURIHARA, Seiji; KANIE, Kiyoshi

3B4-41 Preparation and evaluation of an artificial cell membrane formed on silica microbeads as a well-defined scaffold (Grad. Sch. Mat. Sci., NAIIST) OSUNAGAWA, Naho; KIKUCHI, Jun-ichi; YASUHARA, Kazuma

Chair: HASEGAWA, Takeshi (16 : 00~17 : 00)

* 15:50-16:00: interval for laptop PC connection.(3B4-43, 3B4-44, 3B4-45, 3B4-46, 3B4-47, 3B4-48)

3B4-43 Incorporation of larger guest molecules in liposome by chemical reaction in lipid membrane (Grad. Sch. Eng., Hiroshima Univ.) OTSUCHIYA, Yuk; SUGIKAWA, Kouta; UEDA, Masafumi; IKEDA, Atsushi

3B4-44 Incorporation and Release of Photoresponsive Molecule in Lipid-membrane (Grad. Sch. Eng., Hiroshima Univ.) OUEDA, Masafumi; SUGIKAWA, Kouta; IKEDA, Atsushi

3B4-45 Preparation of Bicelles based on Lecithin-Polyoxyethylene Cholesteryl Ether (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) OADACHI, Keita; ARAMAKI, Kenji; MATA, Jitendra; KAMIMOTO, Junko; KONNO, Yoshikazu

3B4-46 Bicelle Formulation by Double-tailed Nonionic Surfactant (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) OIWATA, Chikahiro; ARAMAKI, Kenji; MATA, Jitendra; MAEHARA, Tetsuya; ABURANO, Daisuke; SAKANISHI, Yuichi; KITAO, Kyuhei

3B4-47 Transformation of liposomes induced by self-assembly of porphyrin molecules (Grad. Sch. Eng., Hiroshima Univ.; Grad. Sch. Mat. Sci., NAIIST) OTAKAMATSU, Yutaro; SUGIKAWA, Kouta; YASUHARA, Kazuma;

UEDA, Masafumi; IKEDA, Atsushi

3B4-48 Localization of two-dimensional domains in multicomponent lipid bilayers on graphene oxide (Dept. Env. Life Sci., TUT) OKAMOTO, Yoshiaki; SAITO, Shun; IWASA, Seiji; TERO, Ryugo

Room B5

Fourth Building, Section A J445

Colloid and Interface Chemistry

Thursday, March 16, PM

Chair: KOBAYASHI, Hirokazu (13 : 00~14 : 10)

* 12:50-13:00: interval for laptop PC connection.(1B5-25, 1B5-26, 1B5-28, 1B5-30)

1B5-25 Synthesis of Copper Nanoparticle with Controlled Diameter in Clay Mineral Dispersion (Fac. Sci. Eng., Chuo Univ.) OSHIBUSAWA, Akane; MIYAGAWA, Masaya; TANAKA, Hideki

1B5-26** Formation and decomposition mechanisms of lustrous copper nanoparticle film and its electric conductivity (Fac. Sci. Eng., Chuo Univ.) OMIYAGAWA, Masaya; YONEMURA, Mari; OHNO, Kazuki; TANAKA, Hideki

1B5-28** Photoregulated Porosification of Au-Ag Alloy Nanoparticles Based on Photoelectrochemical Dealloying (IIS, The Univ. of Tokyo) ONISHI, Hiroyasu; TATSUMA, Tetsu

1B5-30** Hydrogen Absorption Properties in Pd/Pt Core/Shell Nanoparticles: A DFT Study (Grad. Sch. Eng., Kyushu Univ.) OBINTI ZULKIFLI, Nor Diana; ISHIMOTO, Takayoshi; KOYAMA, Michihisa

Chair: TERANISHI, Toshiharu (14 : 20~15 : 30)

* 14:10-14:20: interval for laptop PC connection.(1B5-33, 1B5-35, 1B5-37, 1B5-39)

1B5-33** Designing of Magnetic-Plasmonic Ternary Metallic Nanoparticles (Sch. Mat. Sci., JAIST) OMOHAN, Priyank; TAKAHASHI, Mari; KITAURA, Ryoichi; HIGASHIMINE, Koichi; MOTT, Derrick; MAENOSONO, Shinya

1B5-35** Synthesis and functionalisation of Chemically-Stable Water-Dispersible Iron Nanoparticles. (Sch. Mat. Sci., JAIST) OFAMIANI, Simone; MAENOSONO, Shinya; THANH, Nguyen T. K.

1B5-37** Analysis of stable structure of ruthenium nanoparticles (IFRC, Kyushu Univ.) ONANBA, Yusuke; ISHIMOTO, Takayoshi; KOYAMA, Michihisa

1B5-39 Application of nano MR fluid in a haptic display for medical use (Grad. Sch. Sci., Eng., Yamagata Univ.) OWAGA, Mito; AITA, Yuuki; NOMA, Junichi; KIKUCHI, Takehito; NONOMURA, Yoshimune

Chair: WANG, Kehsuan (15 : 40~16 : 50)

* 15:30-15:40: interval for laptop PC connection.(1B5-41, 1B5-43, 1B5-45, 1B5-47)

1B5-41* Synthesis and Catalytic Activity for Oxygen Evolution Reaction of Transition Metal Based Core@Shell Nanocrystals. (ICR, Kyoto Univ.) OSARUYAMA, Masaki; SAKAMOTO, Masanori; AKIYAMA, Seiji; YAMADA, Taro; DOMEN, Kazunari; TERANISHI, Toshiharu

1B5-43* Seed-mediated Synthesis and Photoelectrochemical Properties of Ag₂S-ZnS Heteronanorods (ICR, Kyoto Univ.) OKAWAWAKI, Tokuhisa; SAKAMOTO, Masanori; TERANISHI, Toshiharu

1B5-45** Strong Magnets by Total Control of Nanomagnetism (ICR, Kyoto Univ.) OTRINH, Thang Thuy; SATO, Ryota; MATSUMOTO, Kenshi; SAKUMA, Noritsugu; TERANISHI, Toshiharu

1B5-47 Nano-pseudomorphic Synthesis of Morphologically Controlled Pd-based Alloy Nanoparticles (Dep. Chem., Sch. Sci., Kyoto Univ.) OEGAWA, Shigehisa; SATO, Ryota; TERANISHI, Toshiharu

Chair: AIKAWA, Tatsuo (17 : 00~18 : 10)

* 16:50-17:00: interval for laptop PC connection.(1B5-49, 1B5-51, 1B5-53, 1B5-55)

1B5-49** The Phase Transition Behavior and Ionic Conductivity of Silver Bromide Iodide Nanoparticles (Dep. Chem., Sch. Sci., Kyoto Univ.; PRESTO, JST; Grad. Sch. Eng., Kyushu Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) OYAMAMOTO, Takayuki; KOBAYASHI, Hirokazu; YAMAMOTO, Tomokazu; MATSUMURA, Syo; KUBOTA, Yoshiki; KITAGAWA, Hiroshi

1B5-51** Structural characterization of ultrathin gold nanorods by high-resolution transmission electron microscopy (Grad. Sch. Sci., The Univ. of Tokyo) OTAKAHATA, Ryo; YAMAZOE, Seiji; KOYASU, Kiichiro; TSUKUDA, Tatsuya

1B5-53** Soft-Template Synthesis of Double-Helical Gold Nanowires with Chirality Control (Fac. Eng., TUS) ONAKAGAWA, Makoto; WAGA, Tomonori; IMURA, Yoshiro; WANG, Ke-hsuan; KAWAI, Takeshi

1B5-55 Preparation of Calcium Phosphate Coated Fluorescent Nanorods Using Alternate Soaking Process (Fac. Eng., TUS) OYAMAGUCHI,

Futoshi; KASAHARA, Takaya; TAKITA, Naofumi; IJIMA, Kazutoshi; HASHIZUME, Mineo

Friday, March 17, AM

Chair: NIIDOME, Yasuro (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2B5-01, 2B5-02, 2B5-04, 2B5-05, 2B5-06)

2B5-01 Photocatalysis of Gold Clusters Functionalized by Peptide Dendron Thioliates (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○UENO, Ryo; ISOZAKI, Katsuhiko; ISHIBASHI, Kosuke; TAKAYA, Hikaru; NAKAMURA, Masaharu

2B5-02* Thermoresponsive gold nanoparticles covered with oligo(ethylene glycol) derivatives: The effect of nanoparticle size and shape (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○IIDA, Ryo; NIKURA, Kenichi; MITOMO, Hideyuki; IJIRO, Kuniharu

2B5-04 Synthesis of gold nanoparticles in solution with layered silicate clays (FIRST, Konan Univ.) ○FUJIWARA, Ryo-suke; HATA, Manami; KAWATA, Akihiro; TAKASHIMA, Yohei; TSURUOKA, Takaaki; AKAMATSU, Kensuke

2B5-05 Synthesis and Optical Properties of Au Clusters Depending on Solution pH (Dept. Mat. Sci., Wakayama Nat. Coll. of Tech.) ○HAYASHI, Junjiro; HIGASHI, Kentaro; SAKAMOTO, Miki; TANAKA, Masaya; MATSUMURA, Masanobu

2B5-06 Magnetic Property of Au₂₅ Nanocluster Protected with an Azobenzene Ligand (Fac. Sci. Tech., Keio Univ.) ○TSUDA, Kento; NIHORI, Toshiki; NEGISHI, Yuichi; YAMAMOTO, Takashi; EINAGA, Yasuaki

Chair: AKAMATSU, Kensuke (10 : 10~11 : 20)

* 10:00-10:10: interval for laptop PC connection.(2B5-08, 2B5-09, 2B5-10, 2B5-11, 2B5-13, 2B5-14)

2B5-08 Unique Structural and Photophysical Characteristics of Thiolate-Protected Gold Nanoparticles prepared via Physical Approach (Grad. Sch. Eng., Hokkaido Univ.) ○AKITA, Ikumi; ISHIDA, Yohei; YONEZAWA, Tetsu

2B5-09 A First Synthesis of Fully Cationized Au₂₅(SR⁺)₁₈ Clusters (Sch. Eng., Hokkaido Univ.) ○NARITA, Kunihiko; ISHIDA, Yohei; YONEZAWA, Tetsu

2B5-10 Synthesis of Naked Gold Nanoparticles in Aqueous Media Using Ultrasound: Factors of Naked Gold Nanoparticle Formation (Fac. Eng., Shinshu Univ.) ○KASAHARA, Riku; KANAYAMA, Naoki; SAKAI, Toshio

2B5-11* Laser induced desorption / ionization efficiencies of gold nanorods (Grad. Sch. Sci., Eng., Kagoshima Univ.) MUKO, Daiki; ○NIIDOME, Yasuro

2B5-13 Synthesis the gold nanorods in mixed cationic-surfactant solution: effect of the surfactant phase on the growth of gold nanorods under the Krafft temperature (Grad. Sch. Sci. Eng., TMU) ○INABA, Takamichi; TAKENAKA, Yoshiko

2B5-14 Preparation of Au-Ag nanoflowers and its catalytic property (Fac. Eng., TUS) ○AKIYAMA, Ryota; IMURA, Yoshiro; WANG, Ke-hsuan; KAWAI, Takeshi

Chair: TAKENAKA, Yoshiko (11 : 30~12 : 30)

* 11:20-11:30: interval for laptop PC connection.(2B5-16, 2B5-17, 2B5-18, 2B5-19, 2B5-20)

2B5-16 Development of Au nanostar (core)/Pd (shell) type nanoparticle for highly sensitive hydrogen sensing technique in aqueous phase (Coll. Sci. Tech., Nihon Univ.) ○SUGIMOTO, Daiki; SUGAWA, Kosuke; OSTUKI, Joe

2B5-17 Observation and analysis of the phase separation for thermoresponsive polymers induced by plasmonic heating (Fac. Eng., Tokushima Univ.) ○CHIKAZAWA, Junichi; AIBARA, Issei; HASHIMOTO, Shuichi

2B5-18 Au nanosheets with hole patterns fabricated by UV irradiation on hybrid particle monolayer (Fac. Eng., TUS) ○OUCHI, Shun; WANG, Ke-hsuan; IMURA, Yoshiro; KAWAI, Takeshi

2B5-19 Novel preparation method of metal nanorings using polystyrene particle template (Fac. Eng., TUS) ○YOSHIDA, Jun; ICHIKAWA, Hiroto; IMURA, Yoshiro; WANG, Ke-hsuan; KAWAI, Takeshi

2B5-20* Photothermal conversion phenomenon via excitation of localized surface plasmon resonance of Pt-doped anisotropic Ag nanoparticles and induction of cancer cell death (Coll. Sci. Tech., Nihon Univ.) ○SUGAWA, Kosuke; KATO, Masahiro; OTSUKI, Joe

Friday, March 17, PM

Chair: MIYATA, Takashi (13 : 40~14 : 10)

* 13:30-13:40: interval for laptop PC connection.(2B5-29)

2B5-29# Young Scholar Lectures of CSJ Synthesis of Functional Particles Utilizing Various Interfacial Construction Strategies based on Polymer Synthetic Chemistry (Grad. Sch. Eng., Kobe Univ.) ○KITAYAMA, Yukiya

Chair: KITAYAMA, Yukiya (14 : 20~15 : 00)

* 14:10-14:20: interval for laptop PC connection.(2B5-33, 2B5-35)

2B5-33* Preparation of Gel Capsules by Controlled Radical Polymerization at

the Surface of w/o Emulsion. (Fac. Chem. Materials and Bioeng., Kansai Univ.; ORDIST, Kansai Univ.) ○KAWAMURA, Akifumi; NAKAURA, Hiroshi; MIYATA, Takashi

2B5-35* Interfacial Charge-Transfer Transitions: Applications to Biological and Drug Molecules and Surface Nanostructures (Sch. Sci. Tech., Gunma Univ.) ○FUJISAWA, Jun-ichi; EDA, Takumi; MATSUMURA, Shingo; KIKUCHI, Natsumi; HANAYA, Minoru

Chair: YONEZAWA, Tetsu (15 : 10~16 : 20)

* 15:00-15:10: interval for laptop PC connection.(2B5-38, 2B5-40, 2B5-42, 2B5-44)

2B5-38# Atomically Precise Synthesis of Thiolate-Protected Metal Clusters Based on High-Resolution Separation (Grad. Sch. Chem. Sci. Technol., TUS) ○NIHORI, Yoshiki; NEGISHI, Yuichi

2B5-40# Fabrication of High-Performance L1₀-FePd/ α -Fe Nanocomposite Magnets (ICR, Kyoto Univ.; Adv. Mater. Eng. Div., Toyota Motor Corp.) ○MATSUMOTO, Kenshi; SATO, Ryota; TRINH, Thang Thuy; SAKUMA, Noritsugu; TERANISHI, Toshiharu

2B5-42# Investigation on long-lived charge separation in visible light-responsive Au_xS/ZnS heterostructured nanoparticles (Dep. Chem., Sch. Sci., Kyoto Univ.; ICR, Kyoto Univ.; Fac. Sci. and Tech., Tokushima Univ.) ○KIMURA, Masato; SAKAMOTO, Masanori; ADACHI, Hiroyuki; SUGIMOTO, Toshiki; HARUTA, Mitsutaka; WATANABE, Kazuya; FURUBE, Akihiro; KURATA, Hiroki; MATSUMOTO, Yoshiyasu; TERANISHI, Toshiharu

2B5-44# Appearance of Surface Plasmon Resonance by Hydrogen Adsorption on Gold Clusters (Grad. Sch. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.; CREST, JST) ○ISHIDA, Ryo; HAYASHI, Shun; YAMAZOE, Seiji; TSUKUDA, Tatsuya

Chair: NEGISHI, Yuichi (16 : 30~17 : 40)

* 16:20-16:30: interval for laptop PC connection.(2B5-46, 2B5-48, 2B5-49, 2B5-50, 2B5-51)

2B5-46* Copper nanoparticle formation by matrix sputtering and their properties (Grad. Sch. Eng., Hokkaido Univ.) ○YONEZAWA, Tetsu; NGUYEN, Mai Thanh; PORTA, Matteo

2B5-48 Synthesis and Characterization of Hollow Silver Nanoshell by Reduction of Silver Halides (Grad. Sch. Sys. Eng., Wakayama Univ.) ○FURUTANI, Yuya; KADO, Shinpei; YAJIMA, Setsuko

2B5-49 Photochemical synthesis of gold nanoparticles with benzoic acid as catalyst and surface stabilizing agent (RCSE, Osaka Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○TANAKA, Haruki; SHIRAI, Yasuhiro; HIRAI, Takayuki

2B5-50 Synthesis of metal nanoparticles in porous coordination frameworks using dimethylamine borane as a reductant (FIRST, Konan Univ.) ○SATO, Yasushi; TAKASHIMA, Yohei; NAKAGAMI, Madoka; TSURUOKA, Takaaki; AKAMATSU, Kensuke

2B5-51# Metal Nanoparticles Covered with Metal-organic Framework for Hydrogen Storage/Catalysis Applications (Dep. Chem., Sch. Sci., Kyoto Univ.; PRESTO, JST; Grad. Sch. Eng., Kyushu Univ.) ○KOBAYASHI, Hirokazu; YAMAMOTO, Tomokazu; MATSUMURA, Syo; KITAGAWA, Hiroshi

Saturday, March 18, AM

Chair: YAMAUCHI, Miho (9 : 00 ~ 10 : 10)

* 8:50-9:00: interval for laptop PC connection.(3B5-01, 3B5-02, 3B5-03, 3B5-04, 3B5-05, 3B5-06, 3B5-07)

3B5-01 Synthesis of Metal Nanoparticles in Micelle Template of Amphiphilic Block Copolymer with Metal-coordination Moiety (Grad. Sch. Chem. Sci. Technol., TUS) ○SATO, Hikari; TAKAGI, Akane; MATSUKUMA, Daisuke; OTSUKA, Hidenori

3B5-02 The Change in Hydrogen-storage Properties of Pt Nanoparticles by a Coating of a Metal-Organic Framework (Dep. Chem., Sch. Sci., Kyoto Univ.) ○AOYAMA, Yoshimasa; KOBAYASHI, Hirokazu; YAMAMOTO, Tomokazu; MATSUMURA, Syo; KUBOTA, Yoshiki; KITAGAWA, Hiroshi

3B5-03 Synthesis and Characterization of Pd-B Nanocrystals (Dep. Chem., Sch. Sci., Kyoto Univ.; PRESTO, JST; Grad. Sch. Eng., Kyushu Univ.; URC, Kyushu Univ.; SPring-8, JASRI; Grad. Sch. Sci., Osaka Pref. Univ.) ○KOBAYASHI, Keigo; KOBAYASHI, Hirokazu; MAESATO, Mitsuhiro; YAMAMOTO, Tomokazu; KAWAGUCHI, Shogo; KUBOTA, Yoshiki; MATSUMURA, Syo; KITAGAWA, Hiroshi

3B5-04# Synthesis of Au-Ru Solid-Solution Alloy Nanoparticles and Investigation of Their Catalytic Property (Dep. Chem., Sch. Sci., Kyoto Univ.) ○ZHANG, Quan; KUSADA, Kohei; YAMAMOTO, Tomokazu; MATSUMURA, Syo; KITAGAWA, Hiroshi

3B5-05# Novel Synthesis of Ir-Cu Nanoparticles with Various Atomic Ratios for Catalytic Applications (Dep. Chem., Sch. Sci., Kyoto Univ.) ○WANG, Fenglong; KUSADA, Kohei; YAMAMOTO, Tomokazu; MATSUMURA, Syo; KITAGAWA, Hiroshi

3B5-06 Electronic Structure and Catalytic Activity of Rhodium-Copper Nano Alloy (Dep. Chem., Sch. Sci., Kyoto Univ.; Nihon Univ. Sch. Med.; JST PRESTO; Grad. Sch. Sci., Osaka Pref. Univ.; Grad. Sch. Eng., Kyushu Univ.; Grad. Sch. Eng., Oita Univ.) ○KOMATSU, Tokutaro; KOBAYASHI, Hirokazu; KUSADA, Kohei; KUBOTA, Yoshiki; YAMAMOTO,

Tomokazu; MATSUMURA, Syo; SATO, Katsutoshi; NAGAOKA, Katsutoshi; KITAGAWA, Hiroshi

3B5-07 Synthesis of PtRu alloy nanoparticles and investigation of their structure and properties (Fac. Sci., Kyoto Univ.) ○IKEBUCHI, Tetsuya; KUSADA, Kohei; KITAGAWA, Hiroshi

Chair: KUSADA, Kohei (10 : 20~11 : 30)

* 10:10-10:20: interval for laptop PC connection.(3B5-09, 3B5-10, 3B5-11, 3B5-12, 3B5-13, 3B5-14, 3B5-15)

3B5-09 Kinetic Analysis of Formation and Transformation of Hollow Silver Nanoshell Based on Reduction of Silver Thiocyanate (Fac. Sys. Eng., Wakayama Univ.) ○NISHIURA, Masashi; KADO, Shinpei; YAJIMA, Setsuko

3B5-10 Comparison on Ligand Exchange Reactions of Oleic-Acid-Capped Silver Nanoparticles Synthesized by Vacuum Evaporation on Running Oil Substrate and Thermal Decomposition Methods (Fac. Sys. Eng., Wakayama Univ.) ○OKADA, Soichiro; NAKAHARA, Yoshio; IENAGA, Takashi; WATANABE, Mitsuru; TAMAI, Toshiyuki; YAJIMA, Setsuko; KIMURA, Keichi

3B5-11 Metal-ion-dependent formation of nanoparticles in porous materials filled with ionic liquid induced by X-ray irradiation (Grad. Sch. Eng. Sci., Osaka Univ.; Grad. Sch. Eng., Osaka Univ.) ○ODA, Naoko; KIMOTO, Chisato; ARIMURA, Takashi; TSUDA, Tetsuya; KUWABATA, Susumu; FUKUI, Ken-ichi; IMANISHI, Akihito

3B5-12 Inorganic materials and devices from self-assembled nanostructures of block copolymers for permanent magnets and Li battery electrodes (Toyota Central R&D Labs., Inc.) ○WAKAYAMA, Hiroaki; YONEKURA, Hirotaka; KAWAI, Yasuaki

3B5-13 Preparation of 3d Transition Metal Clusters Using Phenyl Azomethine Dendrimers as a Cluster Synthesizer (Lab. Chem. Life Sci., Tokyo Tech.) ○MINAMISAWA, Keigo; TANABE, Makoto; YAMAMOTO, Kimihisa

3B5-14 Electrochemical Reduction of Oxalic Acid on Shape-Controlled TiO₂ Catalysts (Fac. Sci., Kyushu Univ.) ○EGUCHI, Hiroto; SADAKEYO, Masaaki; KATO, Kenichi; JUHASZ, Gergely M; YAMAUCHI, Miho

3B5-15[#] Facile synthesis of N-doped disordered TiO₂ with high photocatalytic activity under vis-NIR light irradiation (Grad. Sch. Sci., Hiroshima Univ.) ○WANG, Yufeng; SAITOW, Ken-ichi

Chair: NAKASHIMA, Takuya (11 : 40~12 : 50)

* 11:30-11:40: interval for laptop PC connection.(3B5-17, 3B5-18, 3B5-19, 3B5-20, 3B5-21, 3B5-22, 3B5-23)

3B5-17 Alignment of micron-sized TiO₂ particles for highly efficient photocatalytic reactions (Grad. Sch. Sci. Eng., Chuo Univ.) ○HAYASHI, Marika; YAMAGUCHI, Yui; SUZUKI, Hiroaki; SOHN, Woon Yong; KATAYAMA, Kenji

3B5-18 Preparation of photoelectrode substrates with periodic micro-sized structure (Grad. Sch. Sci. Eng., Chuo Univ.) ○NAKAJIMA, Naoto; NISHIMURA, Taisei; YAMAGUCHI, Miki; KUWAHARA, Shota; SOHN, Woon Yong; KATAYAMA, Kenji

3B5-19 Adsorption and separation properties of Mesoporous Silica Nanoparticles grafted with perfluoroalkyl groups (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KITAZAWA, So; KONDO, Atsushi; MAEDA, Kazuyuki

3B5-20[#] Synthesis of Eu(III) oxide nanocrystals using nonanuclear Eu(III) cluster (Sch. Eng., Hokkaido Univ.) ○KOIDE, Katsumasa; NAKANISHI, Takayuki; KITAGAWA, Yuichi; FUSIMI, Koji; HASEGAWA, Yasuchika

3B5-21 Solvothermal Formation Mechanism of Gallium-doped Zinc Oxide Nanoparticles and Evaluation for Electrical and Optical Characteristics of Nanoink Coated Thin Films (IMRAM, Tohoku Univ.) ○SAKAI, Sawa; KANIE, Kiyoshi; MURAMATSU, Atsushi

3B5-22[#] Preparation of a transparent glass-film of epsilon iron oxide nanomagnets (Grad. Sch. Sci., The Univ. of Tokyo) ○YOSHIKIYO, Marie; NAMAI, Asuka; NAKAGAWA, Kosuke; OHKOSHI, Shin-ichi

3B5-23[#] Iron oxide nanoparticles for High performance positive MRI contrast agents (Grad. Sch. Eng., The Univ. of Tokyo; RIKEN CEMS) ○TAKEUCHI, Toshiaki; SIM, Seunghyun; MIYAJIMA, Daigo; AIDA, Takuzo

Saturday, March 18, PM

Chair: HASEGAWA, Yasuchika (14 : 00~15 : 00)

* 13:50-14:00: interval for laptop PC connection.(3B5-31, 3B5-32, 3B5-33, 3B5-34, 3B5-35, 3B5-36)

3B5-31 Chiroptical properties of HgS nanoparticles with chiral ligands (Grad. Sch. Mat. Sci., NAIST) ○KUNO, Jumpei; KAWAI, Tsuyoshi; NAKASHIMA, Takuya

3B5-32 Hydrogen generation by mechanochemical reaction between metal and water: analysis on generation mechanism (Fac. Sci., Hiroshima Univ.; Grad. Sch. Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) ○YAMAMOTO, Takuya; NAKANO, Yasuhiro; OKINO, Yuki; SAITOW, Ken-ichi

3B5-33 Controlling Visible-light Emission in Si Quantum Dots: Two Polar Solvents based Synthesis and Thermal Pyrolysis of HSQ Polymer (Fac. Sci., Hiroshima Univ.; Grad. Sch. Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) ○TERADA, Shihou; XIN, Yunzi; SAITOW, Ken-ichi

3B5-34 Fabrication of copper phthalocyanine nanorods by laser ablation in

liquid and investigation of the growth process (Grad. Sch. Sci., Eng., Ehime Univ.) ○KIHARA, Ryo; ASAHI, Tsuyoshi

3B5-35 Fluorescence of nanoparticles of arylpyrenes (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○KASATANI, Kazuo; BINTI SAIFUDDIN, Nurul Bahrah; MORITA, Yuki; OKAMOTO, Hiroaki

3B5-36 Single particle emission spectroscopic study of perylene nanocrystals in polymer matrices (Grad. Sch. Sci., Josai Univ.) ○UWADA, Takayuki; SATO, Minami; ISHIKAWA, Mitsuru

Chair: TAKAGUCHI, Yutaka (15 : 10~16 : 10)

* 15:00-15:10: interval for laptop PC connection.(3B5-38, 3B5-39, 3B5-40, 3B5-41, 3B5-42)

3B5-38 Influence of microscopic structure in microgels on protein-uptake behavior (Fac. Textile Sci. Technol., Shinshu Univ.) ○HOSHIO, Kensuke; KUREHA, Takuma; MATSUI, Shusuke; SHIBAMOTO, Takahisa; SUZUKI, Daisuke

3B5-39 Responsiveness of structural colored balloons composed of *N*-phenylacrylamide (Grad. Sch. Eng., Kyoto Univ.) ○MORITA, Naoki; HIGASHIGUCHI, Kenji; MATSUDA, Kenji

3B5-40 Elastomer microspheres cross-linked with rotaxane supramolecules and application to tough film formation (Fac. Textile Sci. Technol., Shinshu Univ.) ○HIROSHIGE, Seina; KUREHA, Takuma; AOKI, Daichi; SAWADA, Jun; AOKI, Daisuke; TAKATA, Toshikazu; SUZUKI, Daisuke

3B5-41 Solution structure and ion transfer properties in solid-liquid interface of non-aqueous Li⁺ ion electrolyte solution (Grad. Sch. Eng., Kobe Univ.) ○KITANO, Hiroki; MAKI, Hideshi; MIZUHATA, Minoru

3B5-42^{*} NMR relaxation properties in solid-liquid interface of non-aqueous electrolyte solution coexisting oxides nanoparticles (Kobe Univ.) ○MAKI, Hideshi; TAKEMOTO, Marie; MIZUHATA, Minoru

Chair: MAKI, Hideshi (16 : 20~17 : 20)

* 16:10-16:20: interval for laptop PC connection.(3B5-45, 3B5-46, 3B5-47, 3B5-48, 3B5-49, 3B5-50)

3B5-45 Specific surface area and dangling bond of Si microparticles : Mechanochemical synthesis (Grad. Sch. Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) ○UEDA, Taiki; SAITOW, Ken-ichi

3B5-46 Hydrogen generation by mechanochemical reaction between Si and alkaline solution: analysis on reaction mechanism (Grad. Sch. Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) ○NAKANO, Yasuhiro; SAITOW, Ken-ichi

3B5-47 Fabrication of amphiphilic nanohybrids based on single-walled carbon nanotube and dendrimer having phosphonic esters at the terminals. (Grad. Sch. Env. Life Sci., Okayama Univ.) ○TANAKA, Tomoaki; YASUZAWA, Ryotaro; NISHIMURA, Shunichi; TAJIMA, Tomoyuki; MIYAKE, Hideaki; TAKAGUCHI, Yutaka

3B5-48 Fabrication and Photosensitizing Property of Single-Walled Carbon Nanotube/Dendrimer Nanohybrids (Grad. Sch. Env. Life Sci., Okayama Univ.) ○ISHIMOTO, Kango; ○TAJIMA, Tomoyuki; MIYAKE, Hideaki; OTSU, Yuki; TAKAGUCHI, Yutaka

3B5-49 Lyoprotective effect of alkyl sulfobetaines during freeze-drying and rehydration of liposomes (Grad. Sch. Fac. Sci. Technol., TUS) ○OKADO, Hiroki; AIKAWA, Tatsuo; KONDO, Takeshi; YUASA, Makoto

3B5-50 Photo-Induced Peptization of Aggregated Silver Nanoparticles (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○HAGA, Kosuke; SATO, Tomoo

Room B6

Fourth Building, Section A J446

Colloid and Interface Chemistry

Thursday, March 16, PM

Chair: MAEDA, Hiromitsu (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(1B6-25, 1B6-27, 1B6-28, 1B6-30)

1B6-25[#] Supramolecular hydrogels based on self-sorted nanofibers (1): Unique emergent properties derived from the orthogonal stimuli-responsiveness (Grad. Sch. Eng., Kyoto Univ.) ○SHIGEMITSU, Hajime; FUJISAKU, Takahiro; TANAKA, Wataru; KUBOTA, Ryou; HAMACHI, Itaru

1B6-27 Supramolecular hydrogels based on self-sorted nanofibers (2): Logic response to specific biomolecules by encapsulation of an enzyme and a metal ion (Grad. Sch. Eng., Kyoto Univ.) ○TANAKA, Wataru; SHIGEMITSU, Hajime; FUJISAKU, Takahiro; KUBOTA, Ryou; HAMACHI, Itaru

1B6-28[#] enzyme-triggered self-assembly of small molecules inducing emission and its application for living cells (OIST) ○ZHENG, Yunhui; ZHANG, Ye

1B6-30[#] Coassembly of Unbinding Molecules into Particles Driven by Photocleavage of Self-assembled Nanofibers (OIST) ○JI, Wei; ZHANG, Ye

Chair: ZHANG, Ye (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(1B6-32, 1B6-34, 1B6-36)

- 1B6-32[#]** Dimension-Controlled Assemblies Based on Genuine π -Electronic Ions (Coll. Life Sci., Ritsumeikan Univ.) ○HAKETA, Yohei; BANDO, Yuya; MAEDA, Hiromitsu
- 1B6-34[#]** Modified Bipyrole Derivatives Providing Electric-Field-Responsive Liquid Crystals (Coll. Life Sci., Ritsumeikan Univ.) ○NAKAMURA, Kazuto; MAEDA, Hiromitsu
- 1B6-36[#]** Fabrication and evaluation of photoluminescent property of liquid-crystalline mechanochromic composite substrate using dynamical composite formation (Univ. of Hyogo) YAMOTO, Taku; ○KONDO, Mizuho; KAWATSUKI, Nobuhiro

Chair: TSUBOI, Yasuyuki (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(1B6-39, 1B6-41, 1B6-42, 1B6-44)
- 1B6-39[#]** Anisotropic soft materials based on the electrostatic repulsion between charged nanosheets (1): Dynamic photonic structure and its spatiotemporal pattern formation (RIKEN CEMS) ○SANO, Koki; EBINA, Yasuo; SASAKI, Takayoshi; ISHIDA, Yasuhiro; AIDA, Takuzo
- 1B6-41[#]** Anisotropic soft materials based on the electrostatic repulsion between charged nanosheets (2): Hydrogel with extralarge mechanical anisotropy (RIKEN CEMS) ○SANO, Koki; ONUMA, Yuka; EBINA, Yasuo; SASAKI, Takayoshi; ISHIDA, Yasuhiro; AIDA, Takuzo
- 1B6-42^{*}** Binary Solvent Distributions at Gel/solid Interface: 1. Wettability (Yamagata Univ.) KAN-NO, Yu-uta; HONMA, Kazuma; TSUSHIDA, Syogo; ○SANO, Masahito
- 1B6-44** Binary Solvent Distributions at Gel/solid Interface:2. Cohesive Energy (Yamagata Univ.) ○SASAKI, Shiori; KIMURA, Yukio; SANO, Masato

Chair: SANO, Masahito (16 : 30~17 : 20)

- * 16:20-16:30: interval for laptop PC connection.(1B6-46, 1B6-47, 1B6-48, 1B6-50)
- 1B6-46** Multiple Micro-ring Patterning of Trapped Thermoresponsive Polymer Microgels by Using Plasmonic Optical Tweezers (Grad. Sch. Sci., Osaka City Univ.) ○DEGUCHI, Mitsuhiro; SHOJI, Tatsuya; ASOH, Taka-aki; MATSUMURA, Yuriko; WAKISAKA, Yumi; MURAKOSHI, Kei; TSUBOI, Yasuyuki
- 1B6-47[#]** Fixation of Living Cyanobacteria on a Plasmonic Substrate by Microbubble Formation (Grad. Sch. Sci., Osaka City Univ.) ○NAKA, Shota; SHOJI, Tatsuya; WAKISAKA, Yumi; MURAKOSHI, Kei; MIZOGUCHI, Tadashi; TAMIAKI, Hitoshi; TSUBOI, Yasuyuki
- 1B6-48^{*}** Selective Plasmonic Optical Trapping of DNA: Multiple-ring Patterning Formation (Grad. Sch. Sci., Osaka City Univ.) ○TSUBOI, Yasuyuki; ITOH, Kenta; SHOJI, Tatsuya; WAKISAKA, Yumi; MURAKOSHI, Kei
- 1B6-50** Fabrication of self-propelled micromotor based on enzymatic reactions on screen-printed paper-based biofuel cell (Grad. Sch. Fac. Sci. Technol., TUS) ○ASANO, Yusuke; HOSHI, Yoshinao; SHITANDA, Isao; ITAGAKI, Masayuki

Friday, March 17, AM

Chair: KIDA, Toshiyuki (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2B6-01, 2B6-02, 2B6-03, 2B6-04, 2B6-05, 2B6-06)
- 2B6-01** Hydrogel Formation of Enzymatically Synthesized Cellulose Oligomers Based on Control of Their Generation Rates (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○FUKAYA, Yuka; SAWADA, Toshiki; SERIZAWA, Takeshi
- 2B6-02** Construction of Two-Dimensional Nanocellulose Assemblies at Interfaces (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○YONEDA, Shohei; SAWADA, Toshiki; SERIZAWA, Takeshi
- 2B6-03** Morphology control of pH-responsive supramolecular fiber (Fac. Eng., Gifu Univ.) ○ARAKAWA, Hanae; IKEDA, Masato
- 2B6-04** Chemically reactive supramolecular hydrogels consisting of self-assembling peptides bearing removable groups at their side-chain (UGS Drug Discovery and Med. Info. Sci., Gifu Univ.) ○KABUMOTO, Marina; SUGIURA, Takumi; IKEDA, Masato
- 2B6-05** Short-step synthesizable low molecular weight hydrogelator (Fac. Sci., Shizuoka Univ.) ○AKAMA, Shuto; YAMANAKA, Masamichi
- 2B6-06** Additive effect of low molecular weight gelator dimer in formation of supramolecular gel (Fac. Sci., Shizuoka Univ.) ○SAWADA, Hiroki; YAMANAKA, Masamichi

Chair: SERIZAWA, Takeshi (10 : 10~11 : 20)

- * 10:00-10:10: interval for laptop PC connection.(2B6-08, 2B6-10, 2B6-11, 2B6-13)
- 2B6-08^{*}** Control of Assembly of Gold Nanoparticles on Lipid Membrane Surface (1) (Grad. Sch. Eng., Hiroshima Univ.) ○SUGIKAWA, Kouta; KADOTA, Tatsuya; UEDA, Masafumi; YASUHARA, Kazuma; IKEDA, Atsushi
- 2B6-10** Control of Assembly of Gold Nanoparticles on Lipid Membrane Surface (2) (Grad. Sch. Eng., Hiroshima Univ.) ○MATSUO, Kotaro; SUGIKAWA, Kouta; UEDA, Masafumi; IKEDA, Atsushi
- 2B6-11[#]** Design of metal-organic cages *exo*-functionalized with carbazole dendrons (iCeMS) ○OMOTO, Kenichiro; HOSONO, Nobuhiko; KITAGAWA, Susumu

- 2B6-13[#]** Development of Stimuli-Responsive Fluorescent N-Heteroacene (Fac. Eng., Kagawa Univ.) ○ISODA, Kyosuke

Chair: ISODA, Kyosuke (11 : 30~12 : 30)

- * 11:20-11:30: interval for laptop PC connection.(2B6-16, 2B6-17, 2B6-18, 2B6-19, 2B6-20, 2B6-21)
- 2B6-16** Dimension-Controlled Assemblies Comprising Photoresponsive Ions (Coll. Life Sci., Ritsumeikan Univ.; Grad. Sch. Eng., Nagoya Univ.; Nagoya Univ. VBL) ○YAMAKADO, Ryohei; HARA, Mitsuo; NAGANO, Shusaku; SEKI, Takahiro; MAEDA, Hiromitsu
- 2B6-17** Preparation of fullerene nanoparticles using fullerene/cyclodextrin complexes (Grad. Sch. Eng., Hiroshima Univ.) ○KOZAWA, Kentaro; SUGIKAWA, Kouta; UEDA, Masafumi; IKEDA, Atsushi
- 2B6-18** Anisotropic elongation of supramolecular fiber structure of diarylethene under linearly polarized UV light (Grad. Sch. Eng., Kyoto Univ.) ○SAKAGUCHI, Akira; HIGASHIGUCHI, Kenji; MATSUDA, Kenji
- 2B6-19** Preparation of Cellulose Nanotubes through One-dimensional Fusion of Cellulose Nanocapsules (Department of Applied Chemistry, Osaka Univ.) ○WADA, Masashi; KIDA, Toshiyuki
- 2B6-20** Enhanced supramolecular self-assembly in non-equilibrium microspace (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.) ○KITAMURA, Akitomo; NOGAMI, Rie; NUMATA, Munenori
- 2B6-21** Creation of metastable supramolecular structure in non-equilibrium microspace (Fac. Life Env. Sci., Kyoto Pref. Univ.) ○KAJI, Shingo; SATO, Akiko; NOGAMI, Rie; NAKADOZONO, Takuya; NUMATA, Munenori

Friday, March 17, PM

Chair: IKEDA, Atsushi (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(2B6-29, 2B6-31, 2B6-32, 2B6-33, 2B6-34)
- 2B6-29^{*}** Molecular Design Strategy for Self-Sorting Binary Discotic Systems (Grad. Sch. Eng., Kyoto Univ.) ○SAKURAI, Tsuneaki; TSUTSUI, Yusuke; SEKI, Shu
- 2B6-31** Self-Assembled Peptide β -Sheets Bearing Electron Donor and Acceptors on the Side Chains (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○NAKAYAMA, Toru; TASHIRO, Kentaro; YAMAMOTO, Yohei
- 2B6-32** Function control of Amphotericin B channels using metal complexes (Fac. Sci., Kyushu Univ.) ○INOUE, Yuki; ASADA, Sana; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 2B6-33** The Effect of Intermolecular Interaction on Photoinduced Morphological Transformation of Amphiphilic Diarylethene Supramolecular Structures. (Grad. Sch. Eng., Kyoto Univ.) ○YOTSUJI, Hajime; HIGASHIGUCHI, Kenji; MATSUDA, Kenji
- 2B6-34** Morphological transformation of amphiphilic aggregates accompanied by migration of long-chain alkylthiol between amphiphiles (Suzuka Nat. Coll. of Tech.) ○TAKAKURA, Katsuto; USAMI, Masataka; KAWAZOE, Dai; MIYAMOTO, Koutarou; SUGAR, Gantsetseg

Chair: MATSUDA, Kenji (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(2B6-36, 2B6-37, 2B6-38, 2B6-40)
- 2B6-36[#]** Water-Dispersible Boronate Microparticles for Aiming at Preparation of Chemosensors with Multicolor Fluorescence Emission (Grad. Sch. Urban Environmental Sci., TMU) ○PRATOMO, Uji; NISHIYABU, Ryuhei; KUBO, Yuji
- 2B6-37** Preparation of boronate microparticles grafted by chiral molecules for application in asymmetric reactions (Grad. Sch. Urban Environmental Sci., TMU) ○NAGASAKA, Yuka; NAKANISHI, Yuki; KUBO, Yuji
- 2B6-38^{*}** Assembly Behavior and Excited-State Dynamics of π -Extended Tripodal Triptycenes (Lab. Chem. Life Sci., Tokyo Tech.) ○SEIKI, Noriya; SHOJI, Yoshiaki; KAJITANI, Takashi; SAEKI, Akinori; SAKAI, Hayato; HASOBE, Taku; FUKUSHIMA, Takanori
- 2B6-40^{*}** Anisotropic and Reversible Expansion of Oriented Molecular Films by the Spontaneous Adsorption of Organic Vapor (Lab. Chem. Life Sci., Tokyo Tech.) ○SEIKI, Noriya; SHOJI, Yoshiaki; KAJITANI, Takashi; ISHIWARI, Fumitaka; LIANG, Xiaobin; NAKAJIMA, Ken; SOMEYA, Takao; FUKUSHIMA, Takanori

Chair: TAKAKURA, Katsuto (16 : 00~16 : 40)

- * 15:50-16:00: interval for laptop PC connection.(2B6-43, 2B6-44, 2B6-45, 2B6-46)
- 2B6-43** Synthesis and Properties of thermoresponsive pyridine derivatives connecting poly(aryl ether) dendron bearing OEG chains (Grad. Sch. Sci., Eng., Yamagata Univ.) ○KOSEKI, Yugo; ITO, Kazuaki
- 2B6-44** Photochemical Reaction of thymine derivatives in self-assembly (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○UDAGAWA, Akihiro; KOSHIMA, Hideko; SAITO, Kei; ASAH, Toru
- 2B6-45** A magnetic-field-induced phase of an ionic liquid TPA TFSI due to electric potential generation and magnetization change (Fac. Sci., Shinshu Univ.) ○OTSUKA, Hayato; HAMASAKI, Atom; OZEKI, Sumio
- 2B6-46** Preparation of lipid nanodiscs using secretory peptides isolated from *X. tropicalis* skin (RCPT, AIST) ○IKEDA, Yuri; SHIGER, Yasushi; IMURA, Tomohiro

Chair: FUKUSHIMA, Takanori (16 : 50~17 : 30)

- * 16:40-16:50: interval for laptop PC connection.(2B6-48, 2B6-50, 2B6-51)
2B6-48* Development of nanostructured coacervates based on double hydrophilic block copolymers and the behavior of site-selective incorporation of functional nanoparticles (Grad. Sch. Eng., Kyushu Univ.) ○KISHIMURA, Akihiro; NAOYAMA, Kenshiro; HAMADA, Yujiro; MORI, Takeshi; KATAYAMA, Yoshiki
2B6-50 Development of coacervate-based protein-incorporated materials using coacervation technique (Grad. Sch. Eng., Kyushu Univ.) ○TERAUCHI, Mikio; MORI, Takeshi; KATAYAMA, Yoshiki; KISHIMURA, Akihiro
2B6-51* Preparation of ribbon-like mesoporous silica nanofibers by using crystals of various quaternary ammonium-type surfactants (Sch. Advanced Sci. Eng., Waseda Univ.; Kagami Memorial Research Inst. Materials Sci. Tech., Waseda Univ.) ○OZAWA, Kota; YAMAMOTO, Eisuke; TSUMURA, Takuya; SHIMOJIMA, Atsushi; WADA, Hiroaki; KURODA, Kazuyuki

Saturday, March 18, AM

Chair: KOGA, Tomoyuki (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3B6-01, 3B6-03, 3B6-04, 3B6-05, 3B6-06)
3B6-01* Effect of Structure of Terminal Group on Nano-Structure for Homogeneous Polyoxyethylene-Type Nonionic Surfactants in Solution (Grad. Sch. Human. Sci., Nara Women's Univ.; Cosmos Technical Center Co., Ltd.) ○YADA, Shihō; YOSHIMURA, Tomokazu; HASHIMOTO, Satoru; SUZUKI, Toshiyuki
3B6-03 Unique Surface Adsorption Behavior of Nonionic Surfactant in Quaternary Ammonium Salt-type Ionic Liquid (Grad. Sch. Human. Sci., Nara Women's Univ.; Cosmos Technical Center Co., Ltd.) ○KAWAI, Risa; YADA, Shihō; YOSHIMURA, Tomokazu; HASHIMOTO, Satoru; SUZUKI, Toshiyuki
3B6-04 Synthesis and Solution Properties of Quaternary Ammonium Salt-Type Cationic Surfactant with Two Branched Chains (Grad. Sch. Human. Sci., Nara Women's Univ.; Nissan Chemical Industries, Ltd.) ○YOSHIOKA, Yuiko; YADA, Shihō; YOSHIMURA, Tomokazu; HIRASADA, Kazuki; TANAKA, Akihiro
3B6-05 Percolation behavior in nonionic surfactant-based w/o microemulsion (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○KIMURA, Fumihiko; ICHIKAWA, Kotoko; ARAMAKI, Kenji
3B6-06 Preparation of silicon-surfactant-based wormlike micellar solution being stable at low temperature (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○FUJII, Misaki; SAKANISHI, Yuichi; ARAMAKI, Kenji

Chair: NONOMURA, Yoshimune (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3B6-08, 3B6-09, 3B6-10, 3B6-11, 3B6-12, 3B6-13)
3B6-08 Synthesis and Properties of Quaternary Ammonium Salt-type Gemini Ionic Liquids with Various Spacer Structures (Fac. Sci., Nara Women's Univ.) ○NIKI, Maiko; KAWAI, Risa; YOSHIMURA, Tomokazu
3B6-09 Unique Surface Adsorption Behavior by Hydroxy Group of *N*-Acyl-*N*-(2-Hydroxyethyl)- β -Alanine Amino Acid-Type Surfactant (Grad. Sch. Human. Sci., Nara Women's Univ.; NOF CORPORATION; Kracie Home Products, Ltd.) ○WAKIZAKA, Miyako; YADA, Shihō; YOSHIMURA, Tomokazu; MATSUO, Satoshi; FUJITA, Hiroya; MIZUTA, Motonari; MATSUE, Yukako
3B6-10 Controlled Synthesis of Amino Acid-derived Vinyl Polymers by RAFT Polymerization and Their Thermo-responsive Properties (Fac. Sci. Eng., Doshisha Univ.) ○SASAKI, Kageaki; HIGASI, Nobuyuki; KOGA, Tomoyuki
3B6-11 Characterization of Aggregates Consisting of Ferric Acid Derivatives in Aqueous Solution under UV Irradiation Condition (Grad. Sch. Sys. Eng., Wakayama Univ.) ○HAGIYAMA, Yurina; OSUGA, Hideji; SAKAMOTO, Hidefumi
3B6-12 Synthesis of amphiphilic compounds consisting of a galactose and several long-chain alkyl groups and their properties in aqueous solution (Fac. Sys. Eng., Wakayama Univ.) ○MURAOKA, Shinya; OSUGA, Hideji; SAKAMOTO, Hidefumi
3B6-13 Self-assembly of thermo-responsive block copolymers possessing poly(acetyl)ethyleneimines brushes (Dept. of Material & Life Chem., Kanagawa Univ.) ○TAKEBUCHI, Haruka; WANG, Wenli; KAIKAKE, Katsuya; JIN, Ren-hua

Chair: ARAMAKI, Kenji (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(3B6-15, 3B6-16, 3B6-18, 3B6-19)
3B6-15 Solubility behavior of branched fatty acid calcium salt in organic solvent. (Grad. Sch. Sci., Eng., Yamagata Univ.) ○YAMAMOTO, Yoshiaki; NONOMURA, Yoshimune
3B6-16* Island growth of monometallic colloidal nanostructures (RIKEN; RIES, Hokkaido Univ.; Dep. of Chem., Univ. of California) ○WANG, Guoqing; IJIRO, Kuniharu; MAEDA, Mizuo; YIN, Yadong
3B6-18* Comparative study on hygroscopic properties of nanodiamonds

(Shinshu Univ., CEES) ○PIÑA SALAZAR, Elda Zoraida; SAKAI, Toshio; KANEKO, Katsumi

- 3B6-19*** Soft-template assisted synthesis and purification of gold nanowires using a stimuli-responsive long-chain amidoamine derivative (Fac. Ind. Sci. Technol., TUS) ○WANG, Yung-chen; KAWAI, Takeshi

Saturday, March 18, PM

Chair: KATO, Tadashi (13 : 20~14 : 20)

- * 13:10-13:20: interval for laptop PC connection.(3B6-27)
3B6-27* CSJ Award for Creative Works Biocompatible Moist Electronic Devices (Grad. Sch. Eng., Tohoku Univ.) ○NISHIZAWA, Matsuhiko

Chair: SAKAI, Toshio (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(3B6-34, 3B6-35, 3B6-36, 3B6-37, 3B6-38, 3B6-39)
3B6-34 Hardness control of oil gel by mixing waxes and polyglyceryl fatty acid esters (Sch. Biosci. Biotech., TUT) ○ENDO, Midori; SHIBATA, Masashi
3B6-35 Monolayer Properties of Gelator Molecules with Perfluoroalkyl Chains (Toho Univ.) ○YAMAGISHI, Akihiko; YAJIMA, Tomoko; TAMURA, Kenji; SATO, Hisako
3B6-36 Self-Healing Materials Based on Physical and Chemical Self-healing Mechanisms (Grad. Sch. Sci., Osaka Univ.) ○NAKAHATA, Masaki; MORI, Shoko; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
3B6-37 Development of Proton-Conductive Lyotropic Liquid Crystals (Grad. Sch. Eng., The Univ. of Tokyo) ○KUWABARA, Atsushi; YOSHIO, Masafumi; KATO, Takashi
3B6-38* Simultaneous measurements of rheology/small-angle light scattering on the lamellar phase of a nonionic surfactant and re-entrant lamellar/onion transition with varying temperature (Grad. Sch. Sci. Eng., TMU) SUZUKI, Kentō; KAWABATA, Youhei; ○KATO, Tadashi
3B6-39 Columnar liquid crystalline salts of chiral amino alcohols and dendritic carboxylic acids: relationship between the molecular structure and the liquid-crystalline phase stability (RIKEN CEMS) ○YAMADA, Kuniyo; AMANO, Sayaka; AMMATHNADU, Achalkumar Sudhakar; FUJII, Yuki; ISHIDA, Yasuhiro; SAIGO, Kazuhiko

Chair: SHIBATA, Masashi (15 : 40~16 : 20)

- * 15:30-15:40: interval for laptop PC connection.(3B6-41, 3B6-42, 3B6-43, 3B6-44)
3B6-41 Preparation of ionic liquid gel emulsions from a monosaccharide-type low molecular weight gelator and evaluation of their physical properties (AIRiMaQ; ISIT Nanotechnology Lab.; Nissan Chemical Industries, Ltd.) ○ONO, Fumiyasu; SHINKAI, Seiji; WATANABE, Hisayuki
3B6-42 Formation of photo-responsive liquid crystalline emulsion by a microfluidic device and its observation (Grad. Sch. Sci. Eng., Chuo Univ.) ○ENDO, Shun; SATO, Takahiro; SOHN, Woon Yong; KATAYAMA, Kenji
3B6-43 Development of High Performance Emulsifying Equipment: Potential of Ultrasound for Emulsification (Fac. Eng., Shinshu Univ.) ○TAKAHASHI, Nozomi; SAKAI, Toshio
3B6-44 Colloidal Stabilization Mechanism of Emulsions in Multi-component System: Effect of Oil Blending (Grad. Sch. Sci. Technol., Shinshu Univ.) ○URABE, Shunsuke; KANAYAMA, Naoki; SAKAI, Toshio

Chair: KATO, Tadashi (16 : 30~17 : 20)

- * 16:20-16:30: interval for laptop PC connection.(3B6-46, 3B6-47, 3B6-48, 3B6-50)
3B6-46 Colloidal Stabilization of Emulsifier-free Emulsions by Using Molecular Diffusion (Fac. Eng., Shinshu Univ.) ○SAKAI, Toshio; OISHI, Taku; KANATAMA, Naoki
3B6-47 Surface Properties of Emulsion Droplets: Characterization with QCM (Fac. Eng., Shinshu Univ.) ○ISOGAI, Hiroyuki; KANAYAMA, Naoki; SAKAI, Toshio
3B6-48* Preparation and Characterization of All-Organic Magnetic Nanoemulsions Encapsulating Nitroxide Radicals and Hydrophobic Drugs Directed toward MRI-Visible Targeted Delivery System (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○NAGURA, Kota; MORONAGA, Satori; TAKEMOTO, Yusa; SHIMONO, Satoshi; UCHIDA, Yoshiaki; SHIINO, Akihiko; TANIGAKI, Kenji; AMANO, Tsukuru; YOSHINO, Fumi; KATO, Tatsuhisa; KOMATSU, Naoki; TAMURA, Rui
3B6-50 Physical properties of orange roughy oil and its performance as a cosmetic oil (Sch. Biosci. Biotech., TUT) ○SHIMIZU, Taiki; SHIBATA, Masashi

Room C1

Fourth Building, Section B 12

Biofunctional Chemistry ; Biotechnology

Thursday, March 16, AM

Sugar

Chair: MIURA, Yoshiko (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1C1-01, 1C1-02, 1C1-03, 1C1-05, 1C1-06)

1C1-01 Analysis of expression profiles for lacto/neolacto series glycans expressed in human cancer by saccharide primer method (Fac. Sci. Tech., Keio Univ.) ○JOUNDAI, Wataru; SASAKI, Katsumasa; SATO, Toshinori

1C1-02 Cluster analysis of mucin-type O-glycans expressed in tumor cells using saccharide primer method (Fac. Sci. Tech., Keio Univ.) ○NAGAI, Kaori; SASAKI, Katsumasa; SAKURA, Ryuma; SATO, Toshinori

1C1-03^{##} NMR analyses of the dynamic structure and interactions of Lewis X oligosaccharide and its cluster (Sch. Mat. Sci., JAIST) ○YAN, Gengwei; SUZUKI, Tatsuya; YANAKA, Saeko; YAMAGUCHI, Takumi; FUJITA, Makoto; KATO, Koichi

1C1-05 Exploration of the conformational space of Lewis X oligosaccharide by molecular dynamics simulation (Sch. Mat. Sci., JAIST) ○MURAKAMI, Shingo; YAN, Gengwei; YAMAGUCHI, Takumi

1C1-06 Synthesis of a paramagnetic probe for NMR interaction analyses of oligosaccharides (Sch. Mat. Sci., JAIST) ○HORI, Yoshiki; YAN, Gengwei; YAMAGUCHI, Takumi

Chair: YAMAGUCHI, Takumi (10 : 10~11 : 20)

* 10:00-10:10: interval for laptop PC connection.(1C1-08, 1C1-10, 1C1-12, 1C1-13, 1C1-14)

1C1-08^{##} The Effect of Anionic Polysaccharides on Drug Loading and Release Behaviors of Polysaccharides Composite Films Prepared by Utilizing Hot Press Techniques (Fac. Eng., TUS) ○IJJIMA, Kazutoshi; YAJIMA, Tatsuya; SHIBATA, Tomonori; MURATA, Yu; HASHIZUME, Mineo

1C1-10^{##} Discovery of regioselective mannose-trimming pathways in the endoplasmic reticulum by using selective inhibitors (Fac. Sci. and Technol., Seikei Univ.) ○KURIBARA, Taiki; HIRANO, Makoto; SPECIALE, Gaetano; WILLIAMS, Spencer J.; ITO, Yukishige; TOTANI, Kiichiro

1C1-12 Preparation and Analysis of Glycopolymers-Unit Library (Grad. Sch. Eng., Kyushu Univ.) NAKAMURA, Tadashi; ○MIURA, Yoshiko

1C1-13 Structure analysis of core fucose binding lectin PhoSL (Grad. Sch. Sci., Osaka Univ.; J-OIL MILLS, Inc.; RIKEN SSBC) ○INOUE, Moe; NGUYEN, Minh Hien; IZUMI, Masayuki; OKAMOTO, Ryo; KOBAYASHI, Yuka; UENO, Yasushi; OKAMOTO, Yuki; HAYASHI, Humiaki; HISATOMI, Osamu; KAJIHARA, Yasuhiro

1C1-14 Introduction of different fluorescent molecules into β -1,3-glucan oligosaccharide for profile analysis of β -1,3-glucanase hydrolyzate (Grad. Sch. Eng., Nagoya Inst. of Tech.) MIYAGAWA, Atsushi; ○YAMAGUCHI, Takahiro; YAMAMURA, Hatsuho

Chair: TOTANI, Kiichiro (11 : 30~12 : 30)

* 11:20-11:30: interval for laptop PC connection.(1C1-16, 1C1-18, 1C1-20, 1C1-21)

1C1-16^{##} Expanding Semisynthesis by N-terminal modification of expressed protein employing a Hydrophilic Protecting group (Grad. Sch. Sci., Osaka Univ.) ○CHANDRASHEKAR, Chaitra; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

1C1-18^{##} An Efficient Strategy for Glycopeptide Synthesis Having a Semi-synthesized Triantennary Complex-Type Oligosaccharide (Grad. Sch. Sci., Osaka Univ.) ○MAKI, Yuta; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

1C1-20 Development of micro-bioreactor system for highly efficient glycoconjugate synthesis (Sch. Eng., Tokai Univ.) ○OISHI, Takefumi; YABUNO, Rika; HANEDA, Katsuji; KIMURA, Hiroshi; INAZU, Toshiyuki

1C1-21 Semi-synthetic study of α 2,6-sialyltransferase bearing high mannose-type oligosaccharide (Grad. Sch. Sci., Osaka Univ.) ○SHIMADA, Arisa; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

Thursday, March 16, PM

Chair: WAKAO, Masahiro (13 : 40~14 : 40)

* 13:30-13:40: interval for laptop PC connection.(1C1-29, 1C1-30, 1C1-32, 1C1-34)

1C1-29 Synthesis and functional assessment of the nanocarriers presenting tumor-associated carbohydrate antigen analogs having 5-thio-fucoside units (Grad. Sch. Eng., Kyoto Univ.) ○TANAKA, Yuma; YAMAZAKI, Yuji; OHMAE, Masashi; KIMURA, Shunsaku

1C1-30^{*} Stepwise chain-elongation synthesis of structurally well-defined type II oligosaccharides containing sulfated Lewis X units by keratanase II-catalyzed

transglycosylation (Grad. Sch. Eng., Kyoto Univ.) ○YAMAZAKI, Yuji; OHMAE, Masashi; KIMURA, Shunsaku

1C1-32^{##} Efficient Synthesis of α -Gal Epitope and Development of Novel Tumor Immunotherapy Using the Conjugate of Anti-cancer Antibody with α -Gal (Grad. Sch. Sci., Osaka Univ.) ○SIANTURI, Julinton; MANABE, Yoshiyuki; TOKUNAGA, Kento; KABAYAMA, Kazuya; FUKASE, Koichi

1C1-34^{*} Synthetic study of mono-galactosylated cholera toxin B subunit (Grad. Sch. Sci., Osaka Univ.) ○GOO, Kang Ying; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

Chair: INAZU, Toshiyuki (14 : 50~16 : 00)

* 14:40-14:50: interval for laptop PC connection.(1C1-36, 1C1-37, 1C1-38, 1C1-39, 1C1-40, 1C1-41, 1C1-42)

1C1-36 Synthesis and activity of multifunctional inhibitors on ER-endomannosidase (Fac. Sci. and Technol., Seikei Univ.) ○YAMAMOTO, Yumiko; KUBO, Karen; HIRANO, Makoto; TOTANI, Kiichiro

1C1-37 The effect of sulfate group on the glycosylation reaction (Grad. Sch. Sci., Osaka Univ.) ○MANBO, Akihiro; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

1C1-38 Solid-phase synthesis of 2-deoxy-2-fluoro glycosyl phosphate analogues from Leishmania (Fac. Pharm. Sci., TUS) ○YAOITA, Aya; TAKEDA, Katsuya; UEKI, Hiroaki; ISHII, Ayumu; IMOTO, Hideyuki; KOBAYASHI, Satoshi; SANO, Michi; NORO, Mihoko; SATO, Kazuki; HARA, Rintaro; WADA, Takeshi

1C1-39 Stereoselective synthesis of glycosyl phosphate analogues derived from Leishmania (Fac. Pharm. Sci., TUS) ○SANO, Michi; NORO, Mihoko; HARA, Rintaro; WADA, Takeshi

1C1-40 Stereocontrolled Synthesis of P-Modified N-Acetyl Mannosamine α -1-Phosphate Analogs (Fac. Pharm. Sci., TUS) ○OGAWA, Yuki; NORO, Mihoko; HARA, Rintaro; WADA, Takeshi

1C1-41 Synthetic study on dermatan sulfate/chondroitin sulfate hybrid tetrasaccharide structure (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○OYAMA, Takeru; NISHIOKA, Kyosuke; HARANOSONO, Tatsuki; KAKITSUBATA, Yuhei; WAKAO, Masahiro; SUDA, Yasuo

1C1-42 Synthetic Study on keratan sulfate partial structures (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○HAYASHI, Takafumi; KINOUE, Yuki; WAKAO, Masahiro; SUDA, Yasuo

Medical Bio

Chair: WAKU, Tomonori (16 : 10~17 : 10)

* 16:00-16:10: interval for laptop PC connection.(1C1-44, 1C1-46, 1C1-48, 1C1-49)

1C1-44^{##} Extracellular Electron Transfer by an oral plaque pathogen: Streptococcus mutans UA159 (Grad. Sch. Eng., The Univ. of Tokyo) ○NARADASU, Divya; HASHIMOTO, Kazuhiro; OKAMOTO, Akihiro

1C1-46^{##} Plasmonic Remote excitation of surface enhanced Raman scattering: Toward single cell interrogations (RIES, Hokkaido Univ.) FUJITA, Yasuhiko; INOSE, Tomoko; ○UJI-I, Hiroshi

1C1-48^{##} 3D Structure Formation of Nanofibers in Poor Solvents after Accumulation at the Air/Liquid Interface (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○NAMBU, Go; ONIKI, Riho; UEDA, Takehiko

1C1-49 Fabrication of collagen nanosheets for artificial dermis (Sch. Eng., Tokai Univ.) ○IGARASHI, Atsushi; TAKANO, Shuta; SUMIYOSHI, Hideaki; INAGAKI, Yutaka; OKAMURA, Yosuke

Chair: OKAMURA, Yosuke (17 : 20~18 : 20)

* 17:10-17:20: interval for laptop PC connection.(1C1-51, 1C1-52, 1C1-53, 1C1-54, 1C1-56)

1C1-51 Chemical modification of phase-change nano-droplet for ultrasound theranostics (Fac. Eng., The Univ. of Tokyo) ○KISAKA, Miho; YAMAGUCHI, Satoshi; HIGASHI, Kotaro; ISHIIJIMA, Ayumu; AZUMA, Takashi; SHIBASAKI, Yosikazu; SAKUMA, Ichirou; OKAMOTO, Akimitsu

1C1-52 Improvement of supramolecular crosslinked hydrogel for ultrasound-induced protein delivery system (RCAST, The Univ. of Tokyo; Grad. Sch. Eng., The Univ. of Tokyo; Grad. Sch. Med., The Univ. of Tokyo) ○HIGASHI, Kotaro; YAMAGUCHI, Satoshi; AZUMA, Takashi; OKAMOTO, Akimitsu

1C1-53 Antigen delivery by intracellular environment-responsive peptide nanofibers (KIT; KIT) ○WAKU, Tomonori; SHIBUYA, Tadato; KUNUGI, Shigeru; TANAKA, Naoki

1C1-54^{##} Layer by layer surface modification for active targeting drug delivery system (RIES, Hokkaido Univ.) ○INOUE, Tomoko; FORTUNI, Beatrice; HORI, Natsuki; WATANABE, Kiri; FUJITA, Yasuhiko; UJI-I, Hiroshi

1C1-56 Improvement of Photocleavable and recoverable protein PEGylation (RCAST, The Univ. of Tokyo; Fac. Eng., The Univ. of Tokyo) ○KINPYO, Tomoki; YAMAGUCHI, Satoshi; SHIOTA, Hidefumi; OKAMOTO, Akimitsu

Friday, March 17, AM

lipid

Chair: KOSHIYAMA, Tomomi (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2C1-01, 2C1-02, 2C1-03,

2C1-04, 2C1-06)

- 2C1-01** Development of chemical shift thermometer for solid-state ²H NMR and its application to hydrated lipid bilayers (Sch. Sci., Osaka Univ.)
○SHIMONISHI, Takeshi; UMEGAWA, Yuichi; MONJI, Mami; HANASHIMA, Shinya; TSUCHIKAWA, Hiroshi; MURATA, Michio
- 2C1-02** Solid-State NMR study for conformational analysis of sphingomyelin head group in lipid bilayer membrane (Grad. Sch. Sci., Osaka Univ.)
○MURAKAMI, Kazuhiro; HANASHIMA, Shinya; UMEGAWA, Yuichi; TSUCHIKAWA, Hiroshi; MURATA, Michio; MATSUMORI, Nobuaki; SLOTTTE, J. Peter
- 2C1-03** Dynamic interaction between lactosylceramide and cholesterol in raft model membrane as examined by NMR and fluorescence spectroscopy (Grad. Sch. Sci., Osaka Univ.)
○IKEDA, Ryuji; TSUCHIKAWA, Hiroshi; HANASHIMA, Shinya; MURATA, Michio; SLOTTTE, J. Peter
- 2C1-04**[#] Self-assembly on lipid rafts mechanically suppresses cancer cell migration (OIST)
○LI, Guanying; ZHANG, Ye
- 2C1-06** Raman imaging of lipid membrane using a turn-on type alkyne probe (Grad. Sch. Eng., The Univ. of Tokyo)
○IZUTA, Shin; YAMAGUCHI, Satoshi; MATSUSHITA, Taku; SUZUKI, Yuta; KOBAYASHI, Koya; OZEKI, Yasuyuki; OKAMOTO, Akimitsu

Chair: YAMAGUCHI, Satoshi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2C1-08, 2C1-10, 2C1-11, 2C1-13)
- 2C1-08**[#] Membrane behavior and sterol interactions of sphingomyelin antipode (Grad. Sch. Sci., Osaka Univ.)
○YANO, Yo; HANASHIMA, Shinya; YASUDA, Tomokazu; TUCHIKAWA, Hiroshi; MURATA, Michio; KINOSHITA, Masanao; MATUMORI, Nobuaki; SUZUKI, Kenichi; SLOTTTE, J. Peter
- 2C1-10** Membrane behavior of very long-chain sphingomyelin in lipid bilayers (Grad. Sch. Sci., Osaka Univ.; Abo Academi University Department of Biosciences)
○MORIUCHI, Mai; TSUCHIKAWA, Hiroshi; YASUDA, Tomokazu; MURATA, Michio; SLOTTTE, J. Peter
- 2C1-11**[#] Control of excited energy transfer efficiency by accumulation of chromophores into membrane lipid domain (Kyushu Univ.)
○KOSHIYAMA, Tomomi; HATAE, Tatsuru; OHBA, Masaaki
- 2C1-13** Evaluation of the Interaction between Bacteriorhodopsin and Lipids (Grad. Sch. Sci., Kyushu Univ.)
○INADA, Masataka; KINOSHITA, Masanao; MATSUMORI, Nobuaki

Friday, March 17, PM

Chair: SUGA, Keishi (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(2C1-34, 2C1-36, 2C1-38)
- 2C1-34**[#] Novel Bicycles with Unprecedented Stability Using Designed Surfactants (RIKEN CEMS)
○UCHIDA, Noriyuki; MATSUI, Ryoichi; AIDA, Takuzo; ISHIDA, Yasuhiro
- 2C1-36**[#] Thermal behavior change of raft-mimetic structure by addition of local anesthetics. (Sch. Mat. Sci., JAIST)
○SUGAHARA, Ko; SHIMOKAWA, Naofumi; TAKAGI, Masahiro
- 2C1-38**[#] Impact of local anesthetics on the raft like (Lo)/non-raft like (Ld) phase separation (Fac. Sci., Kyushu Univ.)
○KINOSHITA, Masanao; CHITOSE, Takeshi; MATSUMORI, Nobuaki

Chair: MATSUMORI, Nobuaki (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(2C1-41, 2C1-42, 2C1-43, 2C1-44, 2C1-46)
- 2C1-41** Molecular-scale Observation of Lipid Bilayer Including Green Tea Catechin by Liquid-environment Frequency Modulation Atomic Force Microscopy (Fac. Sci., Saitama Univ.)
○OKANO, Kazuki; KOBAYASHI, Naritaka; KAWAMURA, Ryuzo; NAKABAYASHI, Seiichi; YOSHIKAWA, Hiroshi
- 2C1-42** Imaging analysis on dynamic behavior of lipid bilayer induced by metal oxide clusters (Fac. Sci., Yamagata Univ.)
○OUCHI, Yuya; UNOURA, Kei; NABIKI, Hideki
- 2C1-43** The effect of nanoformulation of siRNA-lipid assemblies on cellular uptake (Grad. Sch. Advanced Sci. Eng., Waseda Univ.)
○OONISHI, Kohei; KUBOTA, Kohei; LI, Tianshu; TAKEOKA, Shinji
- 2C1-44**[#] Characterization of Membrane Properties of Guanidinium-Modified Liposome and Its Interaction with Nucleic Acid (Sch. Eng. Sci., Osaka Univ.)
○WATANABE, Nozomi; SUGA, Keishi; UMAKOSHI, Hiroshi
- 2C1-46** Evaluation of binding ability of H12-liposomes to activated platelets (Center for Advanced Bio. Sci., Waseda Univ.)
○NAKAHARA, Keiko; TAKEOKA, Shinji; TAN, Suyun; LI, Tianshu

Bioinformatics

Chair: TAKEOKA, Shinji (16 : 50~17 : 20)

- * 16:40-16:50: interval for laptop PC connection.(2C1-48, 2C1-50)
- 2C1-48**[#] Lineage Commitment of Mesenchymal Stem Cells is Regulated by 3D Cell Accumulation Level on Micropatterned Surface (Grad. Sch. Arts and Sci., The Univ. of Tokyo)
○FURUHATA, Yuichi; YOSHITOMI, Toru; YOSHIMOTO, Keitaro
- 2C1-50** Dengue viral genome detection using chemically modified-peptide nucleic acid (ISIR, Osaka Univ.)
○KAIHATSU, Kunihiro; EMI, Harada;

KATO, Nobuo

Saturday, March 18, AM

cell

Chair: OKAMOTO, Akimitsu (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3C1-01, 3C1-03, 3C1-05, 3C1-06)
- 3C1-01**[#] Perfusion culture of a three-dimensional tumor model with vasculature using a microfluidic device (Grad. Sch. Eng., Kyoto Univ.)
○NASHIMOTO, Yuji; NAKAMASU, Akiko; ARIMA, Yuichiro; TORISAWA, Yu-suke; NAKAYAMA, Masamune; TERAOKA, Yukako; KOTERA, Hidetoshi; NISHIYAMA, Koichi; MIURA, Takashi; YAKOKAWA, Ryuji
- 3C1-03**^{*} Construction of Vascularized 3D-Stromal Tissues with High Density Extracellular Matrix (Grad. Sch. Eng., Osaka Univ.)
○MATSUSAKI, Michiya; KOMEDA, Misaki
- 3C1-05** Development of a technology for mechanical cell sorting using nanoneedle array (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.)
○MATSUMOTO, Yuta; IJIMA, Masumi; KURODA, Shun'ichi; YAMAGISHI, Ayana; NAKAMURA, Chikashi
- 3C1-06** Development of a microarray device analysis of exosome emission at single cell level (Sch. Eng., Osaka Univ.)
○TSUTSUI, Keigo; TAMIYA, Eiichi

Chair: KAMACHI, Toshiaki (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(3C1-08, 3C1-09, 3C1-10, 3C1-11)
- 3C1-08** Study of photo-degradable hydrogels for photo-responsive microgel array (Grad. Sch. Eng., The Univ. of Tokyo)
○TAKAGI, Risa; YAMAGUCHI, Satoshi; HOSOGANE, Tsuyoshi; SAKAKIHARA, Shouichi; TABATA, Kazuhito; IINO, Ryota; NOJI, Hiroyuki; OKAMOTO, Akimitsu
- 3C1-09** Study of photo-degradable hydrogels for photo-responsive microgel array (Fac. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo; ISIR, Osaka Univ.)
○HOSOGANE, Tsuyoshi; YAMAGUCHI, Satoshi; TAKAGI, Risa; SAKAKIBARA, Shouichi; TABATA, Kazuhito; IINO, Ryouta; NOJI, Hiroyuki; OKAMOTO, Akimitsu
- 3C1-10** Influence of Uric Acid Concentration on NO Production in Vascular Endothelial Cells (Sch. Pharm., TUPLS)
○NAKAMURA, Hana; KANEKO, Risa; FUJITA, Kyoko; ICHIDA, Kimiyoshi
- 3C1-11**[#] Isolation of Autophagosomes using Magnetic-Plasmonic Hybrid Nanoparticles (Sch. Mat. Sci., JAIST)
○TAKAHASHI, Mari; MOHAN, Priyank; MUKAI, Kohjiro; TAKEDA, Yuichi; MATSUMOTO, Takeo; MATSUMURA, Kazuaki; TAKAKURA, Masahiro; TAGUCHI, Tomohiko; MAENOSONO, Shinya

Chair: MATSUSAKI, Michiya (11 : 10~12 : 10)

- * 11:00-11:10: interval for laptop PC connection.(3C1-14, 3C1-15, 3C1-16, 3C1-18, 3C1-19)
- 3C1-14** Dependence of intracellular oxygen concentration on cell cycle. (Sch. Life Sci. Tech., Tokyo Tech.)
○KOBAYASHI, Yukito; KUROKAWA, Hiromi; ITO, Hidehiro; INOUE, Masahiro; KAMACHI, Toshiaki
- 3C1-15** Hypoxic response of oxygen consumption in mitochondria and peroxisome. (Grad. Sch. Biosci. Biotech., Tokyo Tech.)
○MATSUZAKI, Mai; KOBAYASHI, Yukito; ITO, Hidehiro; KAMACHI, Toshiaki
- 3C1-16**[#] Direct Extracellular Electron Uptake by New Class of Outer-Membrane c-type Cytochromes in Sulfur-Metabolizing Bacteria (Grad. Sch. Eng., The Univ. of Tokyo)
○DENG, Xiao; HASHIMOTO, Kazuhito; OKAMOTO, Akihito
- 3C1-18** Ammonium oxidation with nitric oxide production by *Shewanella oneidensis* MR-1 (Grad. Sch. Eng., The Univ. of Tokyo)
○SAITO, Junki; OKAMOTO, Akihiro; HASHIMOTO, Kazuhito
- 3C1-19** Analysis of interaction between hydroxyapatite and amino acids by Raman spectroscopy and fragment molecular orbital method (Grad. Sch. Eng., Osaka Univ.)
○HASHIMOTO, Aya; MORIMOTO, Chiaki; TAKEDACHI, Masahide; YAMAGUCHI, Yoshinori; KATO, Koichiro; FUKUZAWA, Kaori; MURAKAMI, Shinya; TAMIYA, Eiichi

Saturday, March 18, PM

Chair: OHTSUKI, Takashi (13 : 20~14 : 20)

- * 13:10-13:20: interval for laptop PC connection.(3C1-27, 3C1-29, 3C1-31, 3C1-32)
- 3C1-27**[#] *In situ* detection of secondary metabolites in bacteria producing bioactive compounds using Raman microspectroscopy (Grad. Sch. Advanced Sci. Eng., Waseda Univ.)
○MIYAOKA, Rimi; ANDO, Masahiro; YOSHIDA, Masatoshi; HOSOKAWA, Masahito; HAMAGUCHI, Hiro-aki; TAKEYAMA, Haruko
- 3C1-29**[#] Continuous monitoring of insulin secretion response induced by insulin secretagogues in the presence of extracellular insulin (ISSD, Hiroshima Univ.; Grad. Sch. Adv. Sci. Mat., Hiroshima Univ.)
SHIGETO, Hajime; ONO, Takuto; IKEDA, Takeshi; HIROTA, Ryuichi; ISHIDA, Takenori; KURODA, Akio; ○FUNABASHI, Hisakage

- 3C1-31** The production of ferulic acid derivatives using the cultured cells of *Phytolacca americana* under the light condition (Fac. of Sci., Okayama Univ. of Sci.) OHAMADA, Hiroki; DOI, Shota; UESUGI, Daisuke; SHIMODA, Kei; OZAKI, Shinichi
- 3C1-32[#]** Glycogen production using marine cyanobacterial strain, *Synechococcus* sp. NKBG15041c (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OTAKAMATSU, Shouhei; BADALY, Amr; LINDBLAD, Peter; SODE, Koji

Chair: FUNABASHI, Hisakage (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(3C1-34, 3C1-35, 3C1-37, 3C1-38, 3C1-39)
- 3C1-34** Development of cross-reference analysis of single-cell genome data obtained by droplet-based single cell genome amplification (Grad. Sch. Advanced Sci. Eng., Waseda Univ.; CBBDOIL, AIST) OKOGAWA, Masato; NISHIKAWA, Yohei; MORI, Kazuki; HOSOKAWA, Masahito; TAKEYAMA, Haruko
- 3C1-35[#]** Development of single-cell genetic analysis system for circulating tumor cells based on microcavity array (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ONEGISHI, Ryo; IWATA, Reito; MATSUNAGA, Tadashi; TANAKA, Tsuyoshi; YOSHINO, Tomoko
- 3C1-37** Characterization of *Synechocystis* sp. PCC 6803 transformed with marine cyanobacterial stress tolerant gene (Tokyo Univ. of Agri. and Technol.) OSHIOYA, Sayumi; NAGATA, Madoka; FUSE, Saori; YAMADA, Akiyo; OZEKI, Yoshiro; SODE, Koji
- 3C1-38[#]** Engineering of the pilus gene regulation system of *Synechocystis* sp. PCC6803 (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ONAGATA, Madoka; ITO, Akiko; NAKAMURA, Mayumi; ABE, Koichi; KOJIMA, Katsuhiko; FERRI, Stefano; SODE, Koji
- 3C1-39** Ultrasound-dependent intercellular peptide / RNA delivery method (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) OINABA, Yuuki; WATANABE, Kazunori; OHTSUKI, Takashi

Biocatalysis

Chair: KOBAYASHI, Atsushi (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(3C1-41, 3C1-42, 3C1-43, 3C1-44, 3C1-45, 3C1-46)
- 3C1-41** The methylation of flavones using the plant cultured cells of *Phytolacca Americana*. (Fac. of Sci., Okayama Univ. of Sci.) ONISHI, Tatsuya; OZAKI, Shinichi; SHIMODA, Kei; HAMADA, Hiroki
- 3C1-42** The reduction of curcumin derivative using the cultured cells of *Morus bombycis*. (Fac. of Sci., Okayama Univ. of Sci.) OARAKI, Minami; NAKAYAMA, Noriyuki; ONO, Tsubasa; OZAKI, Shinichi; SHIMODA, Kei; HAMADA, Hiroki
- 3C1-43** Combination of oxidation and reduction for deracemization of 1-phenylethanols (Osaka Municipal Technical Research Institute) OSATO, Hirofumi; YAMADA, Rei; KAWASAKI, Hideya; ARAKAWA, Ryuichi
- 3C1-44[#]** Substrate-Binding Cavity Specific Interaction in Reductase : Insight to Enzyme Enantioselectivity and Macromolecule-Small Molecule Interaction (Sch. Life Sci. Tech., Tokyo Tech.) OKOESOEEMA, Afifa Ayu; SUGIYAMA, Yosuke; VERINA, Samantha; SCHRITT, Dimitri; YAMASHITA, Kazuo; STANDLEY, Daron; SENDA, Miki; SENDA, Toshiya; MATSUDA, Tomoko
- 3C1-45** Enzymatic Hydrolysis of 1,2-diol Monotosylate derivatives bearing a multiple bond in the side chain (Sch. Sci. Eng., Meisei Univ.) OOHANA, Kohei; HASHIMOTO, Manabu; SHIMODA, Toshiya; TOGAWA, Tatsuya; MATSUMOTO, Kazutsugu
- 3C1-46** Design of ionic liquids for lipase coating; Activity change of lipase for cation structure of ionic liquids (Grad. Sch. Eng., Tottori Univ.) OKADOTANI, Shiho; NOKAMI, Toshiki; ITOH, Toshiyuki

Chair: HAMADA, Hiroki (16 : 50~18 : 00)

- * 16:40-16:50: interval for laptop PC connection.(3C1-48, 3C1-49, 3C1-50, 3C1-51, 3C1-52, 3C1-53, 3C1-54)
- 3C1-48[#]** CO₂-expanded bio-based liquids as novel reaction media for lipase-catalyzed asymmetric acylation of bulky secondary alcohols (Sch. Biosci. Biotech., Tokyo Tech.) HOANG, Nam Hai; YAMADA, Shinjiro; NAGASHIMA, Yoshihiro; MORI, Shuichi; KAGECHIKA, Hiroyuki; MATSUDA, Tomoko
- 3C1-49[#]** Cell Sorting Efficiency of Weir Structure-Based Filters in the Designed Microfluidic Chip (Sch. Eng., Osaka Univ.) ESPULGAR, Wilfred Villariza; KIZAWA, Yuka; OKAJIMA, Takaaki; SAITO, Masato; TAMIYA, Eiichi
- 3C1-50** Artificial red blood cells encapsulating hemoglobin with improved antioxidative function (Dept. Chem., Nara Med. Univ.) YAMADA, Magohei; KURE, Tomoko; MATUHIRA, Takashi; YAMAMOTO, Keizou; SAKAI, Hiromi
- 3C1-51** The role of the strain of the coenzyme aldimine in aspartate aminotransferase (Osaka Med. Coll.) HAYASHI, Hideyuki; MURAKAWA, Takeshi
- 3C1-52[#]** Cyclic Hexa-peptide Nanotube Formation by Assisted-assembly using Side Chain Reaction (Grad. Sch. Life Sci. Sys. Eng., KIT) FARRAG, Hisham Nabil Mahmoud; KATO, Tamaki
- 3C1-53** Reaction between sugar or sugar precursors and diphosphonic acid

- (Sch. Life Sci. Tech., Tokyo Tech.) OSHIOZAWA, Takashi; TOMORI, Takahito; KANEKO, Kazuhei; MASAKI, Yoshiaki; SEIO, Kohji
- 3C1-54** Influence of phenol derivatives on the quantification of reducing sugars based on the BCA method (Sch. Eng., Nihon Univ.) OSUZUKI, Daiki; ITOU, Hiroshi; KOBAYASHI, Atsushi

Room C2

Fourth Building, Section B 13

Biofunctional Chemistry ; Biotechnology

Thursday, March 16, PM

Chair: TAKEUCHI, Toshifumi (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(1C2-29, 1C2-30, 1C2-31, 1C2-33, 1C2-34)
- 1C2-29** Development of Novel Fluorescent Molecular Probes for the Highly Selective Detection of Neurotransmitters (Health Research Institute, AIST) OSUZUKI, Yoshio
- 1C2-30** A Novel Fluorescent Molecular Design for Expansion of Arene-Metal Ion Contact Sensing (Grad. Sch. Pharm., Kyushu Univ.) OTAKATA, Yusuke; KANEGAE, Anna; KAWAGOE, Ryosuke; UCHINOMIYA, Shohei; OJIDA, Akio
- 1C2-31[#]** Nitrodibenzofuran-derived Photocleavable Protecting Groups (RCAST, The Univ. of Tokyo; Grad. Sch. Eng., The Univ. of Tokyo) OZHU, Hao; OKAMOTO, Akimitsu
- 1C2-33[#]** Synthesis and evaluation of small molecules binding to G₄C₂ DNA repeat (ISIR, Osaka Univ.) OLU, Yihuan; DOHNO, Chikara; NAKATANI, Kazuhiko
- 1C2-34** Synthesis of novel boronic acid derivative and its molecular recognition utilizing boronate formation with cis-1,2-diol (Fac. Sci., Fukuoka Univ.) OKONISHI, Sae; KUSANO, Shuhei; HAYASHIDA, Osamu

Chair: TSUKIJI, Shinya (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(1C2-36, 1C2-37, 1C2-38, 1C2-39, 1C2-40, 1C2-41)
- 1C2-36** Development of novel viologen derivative as an electron carrier for visible-light-induced molecular conversion reactions with dehydrogenase (Fac. Sci., Osaka City Univ.; OCARINA) OKATAGIRI, Takayuki; IKEYAMA, Shusaku; FUJITA, Kohei; AMAO, Yutaka
- 1C2-37** Alkoxy radical scavenging activity of lipophilic compounds as studied by Flow-injection spin-trapping ESR system (KIT) YAMAGUCHI, Tomoko; NAKAJIMA, Akira; MIYAKE, Yusuke; KANAORI, Kenji; TAJIMA, Kunihiko
- 1C2-38** Stopped flow - optical and ESR study on the reaction mechanism occurring between superoxide anion radical and flavonoids in DMSO (KIT) OKUWABARA, Keiko; YAMAGUCHI, Tomoko; MIYAKE, Yusuke; KANAORI, Kenji; TAJIMA, Kunihiko
- 1C2-39[#]** Taurine Modified Ru(II)-Complex Target Brain Cancer Cell for Photodynamic Therapy (Bioinspired Soft Matter Unit) ODU, Enming; ZHANG, Ye
- 1C2-40** Introduction of Unnatural Esterifying Chains into Bacteriochlorophyll *c* in Green Sulfur Photosynthetic Bacteria: Effects of the Isoprenoid Diphosphates as Exogenous Substrates (Fac. Sci. Eng., Kindai Univ.; PRESTO, JST) SAGA, Yoshitaka; YAMASHITA, Hayato; HAYASHI, Keisuke
- 1C2-41** Adsorption Behaviors of Light-harvesting Complexes Chlorosomes of Green Sulfur Photosynthetic Bacteria on Graphene Oxides (Fac. Sci. Eng., Kindai Univ.; PRESTO, JST) OSAGA, Yoshitaka; KOBAYASHI, Takumi; KURUSHIMA, Takashi

Chair: DOHNO, Chikara (16 : 00~16 : 50)

- * 15:50-16:00: interval for laptop PC connection.(1C2-43, 1C2-44, 1C2-45, 1C2-46, 1C2-47)
- 1C2-43** Evaluation of photodynamic activity of porphyrin-cyclodextrin complexes (Grad. Sch. Eng., Hiroshima Univ.) OSATAKE, Shuhei; MAE, Tomoya; UEDA, Masafumi; SUGIKAWA, Kouta; SHIGETO, Hajime; FUNABASHI, Hisakage; KURODA, Akio; IKEDA, Atsushi
- 1C2-44** Stability and photodynamic activity of lipid-membrane-incorporated porphyrins (Grad. Sch. Eng., Hiroshima Univ.) OHORIGUCHI, Banri; SUGIKAWA, Kouta; UEDA, Masafumi; SHIGETO, Hajime; FUNABASHI, Hisakage; KURODA, Akio; IKEDA, Atsushi
- 1C2-45** Application to Photodynamic Therapy of Lipid Membrane Incorporating Hydrophilic Fullerene derivative (Grad. Sch. Eng., Hiroshima Univ.) OMAE, Tomoya; SUGIKAWA, Kouta; UEDA, Masahumi; SHIGETO, Hajime; FUNABASHI, Hisakage; KURODA, Akio; IKEDA, Atsushi
- 1C2-46** Development of water-soluble folate derivatives containing boron cluster for Boron Neutron Capture Therapy (Sch. Life Sci. Tech., Tokyo Tech.) ONAKAGAWA, Fumiko; KAWASHIMA, Hidehisa; KOZU, Saki; MORITA, Taiki; NAKAMURA, Hiroyuki

1C2-47 Optimization of pH-activatable porphyrin for photodynamic therapy (Grad. Sch. Sci. Tech., Gunma Univ.) ○HORIUCHI, Hiroaki; HIRABARA, Atsuki; OKUTSU, Tetsuo

Chair: FUNABASHI, Hisakage (17 : 10~18 : 10)

* 17:00-17:10: interval for laptop PC connection.(1C2-50, 1C2-51, 1C2-52, 1C2-53, 1C2-54)

1C2-50 Syntheses and physical properties of bacteriochlorins (Coll. Life Sci., Ritsumeikan Univ.) TAMIAKI, Hitoshi; ○NOMURA, Yosaku; SHOJI, Sunao

1C2-51 Molecular recognition of histidines by a zinc chlorophyll-*a* derivative possessing a diethylaminomethyl group (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○KAMATANI, Yusuke; WATANABE, Hiroaki; TAMIAKI, Hitoshi

1C2-52 Various self-aggregation of a novel chlorophyll-*c* derivative in an aqueous solution (Graduate School of Life Sciences, Ritsumeikan University) ○MATSUBARA, Shogo; TAMIAKI, Hitoshi

1C2-53 Temperature-dependent optical properties of lipid membranes containing various chlorophyll derivatives (Fac. Sci. Tech., Ryukoku Univ.) MIYATAKE, Tomohiro; ○NISHIMURA, Noriaki; HORIUCHI, Ryoto

1C2-54* Construction of Molecular Recognition Cavities towards Various Target Molecules via Post-Crosslinking Molecular Imprinting (Grad. Sch. Eng., Kobe Univ.) ○KITAYAMA, Yukiya; YOSHIKAWA, Kazuki; TAKEUCHI, Toshifumi

Saturday, March 18, AM

Chair: FUSE, Shinichiro (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3C2-01, 3C2-02, 3C2-03, 3C2-04, 3C2-05, 3C2-06)

3C2-01 Synthesis of functional group that conjugate protein in mitochondria membrane (Fac. Sci., Fukuoka Univ.) ○ANDO, Taro; IWASHITA, Hidefumi; NAKAGAWA, Hiroyuki; NAGAHORA, Noriyoshi; OKUMA, Kentaro; SHIOJI, Kosei

3C2-02 Construction of intracellular delivery system with cell-penetrating cyclodextrin (Grad. Sch. Eng., Doshisha Univ.) ○HASEGAWA, Naomi; KITAGISHI, Hiroaki

3C2-03 Novel Synthesis of the *O*-methylated oligosaccharide clusters and their dispersion effect toward hydrophobic molecules in water (Grad. Sch. Eng., Doshisha Univ.) ○HIRATA, Seira; KITAGISHI, Hiroaki

3C2-04 Measurement of electronic property of a single biological molecule based on STM molecular tip (Sch. Sci., Tokyo Tech.) ○KOZAKAI, Takafumi; NISHINO, Tomoaki

3C2-05 Synthesis and molecular recognizing ability of chimera cyclodextrin dimers (Grad. Sch. Sci., Eng., Saitama Univ.) ○FUSE, Yasuyuki; FUJIHARA, Takashi; ISHIMARU, Yoshihiro

3C2-06 Synthesis and structure of γ -cyclodextrin dimer with chimera structure (Grad. Sch. Sci., Eng., Saitama Univ.) ○MATSUDA, Nozomu; FUJIHARA, Takashi; ISHIMARU, Yoshihiro

Chair: NISHINO, Tomoaki (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3C2-08, 3C2-09, 3C2-10, 3C2-12)

3C2-08 Photosensitized Protein Damage by Axial Fluorinated Phosphorus(V) porphyrin under Longer Wavelength Visible-light Irradiation (Fac. Eng., Shizuoka Univ.; Grad. Sch. Sci. Technol., Shizuoka Univ.; Fac. Med., Hamamatsu Univ. Sch. Med.) ○HIRAKAWA, Kazutaka; SUZUKI, Ayaka; OUYANG, Dongyan; OKAZAKI, Shigetoshi

3C2-09 Elucidation of a Working Mechanism of Organic D π A Dyes for Photodynamic Therapy (Lab. Chem. Life Sci., Tokyo Tech.) ○TAKIZAWA, Miori; MATSUMURA, Keisuke; FUSE, Shinichiro; NAKAMURA, Hiroyuki

3C2-10* Synthesis and evaluation of organic D π A dye containing dithienopyrrole as the photosensitizer for photodynamic therapy (IIR, Tokyo Tech.) ○MATSUMURA, Keisuke; TAKIZAWA, Miori; FUSE, Shinichiro; NAKAMURA, Hiroyuki

3C2-12* Wavelength Dependent Photosensitized Damage of Proteins by Axial Substituted Porphyrin Phosphorus(V) Complexes (Grad. Sch. Sci. Technol., Shizuoka Univ.) ○OUYANG, Dongyan; HIRAKAWA, Kazutaka

Chair: KITAGISHI, Hiroaki (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3C2-15, 3C2-16, 3C2-18, 3C2-20)

3C2-15 Design of the artificial co-enzyme for malic enzyme with the function of carbon dioxide fixation (Osaka City Univ.) ○FUJITA, Kohei; KATAGIRI, Takayuki; IKEYAMA, Syusaku; AMAO, Yutaka

3C2-16* Improvement of the CO₂ reduction to formic acid conversion with formate dehydrogenase via a novel viologen derivative photoreduction (Grad. Sch. Sci., Osaka City Univ.; OCARINA) ○IKEYAMA, Shusaku; KATAGIRI, Takayuki; AMAO, Yutaka

3C2-18* Structures and Magnetic Properties of Five- and Six-Coordinated Iron (III) Porphyrin Complexes with Axially Pyridine-N oxide Derivatives (Grad. Sch. Fac. Sci. Eng., Shimane Univ.; ADRES, Ehime Univ.; Sch. Med., Toho Univ.; Fac. Sci., Toho Univ.) ○IDE, Yuki; ISHIMAE, Hiroki; SUZUKI, Masaaki; MORI, Shigeki; IKEZAKI, Akira; NAKAMURA, Mikio; IKEUE, Takahisa

Takahisa

3C2-20 Structure and dynamic behavior of tetraalkylporphyrin iron(III) with pyridine-*N*-oxide (Grad. Sch. Fac. Sci. Eng., Shimane Univ.; ADRES, Ehime Univ.; Fac. Sci., Toho Univ.; Grad. Sch. Pharm. Sci., Chiba Univ.) ○YAMADA, Yuya; HOSODA, Haruka; IDE, Yuki; MORI, Shigeki; NEYA, Saburo; NAKAMURA, Mikio; IKEUE, Takahisa

Saturday, March 18, PM

Chair: AMAO, Yutaka (13 : 30~14 : 20)

* 13:20-13:30: interval for laptop PC connection.(3C2-28, 3C2-29, 3C2-30, 3C2-31, 3C2-32)

3C2-28 Improvement of eicosapentaenoic acid production in *Fistulifera solaris* by expressing ω 3 desaturase (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SHIMADA, Hirofumi; NOJIMA, Daisuke; TANAKA, Tsuyoshi; YOSHINO, Tomoko

3C2-29 Improvement of seed germination using photocatalyst (TUS) ○NAGAO, Masanari; USUKI, Sho; WADA, Hiroshi; TERASHIMA, Chiaki; KATSUMATA, Ken-ichi; SUZUKI, Norihiro; FUJISHIMA, Akira; YAMATOYA, Kenji; IKEKITA, Masahiko; NAKATA, Kazuya

3C2-30 Search of hydrogen-producing bacteria in a deep sea (Fac. Eng., KAIT) ○HASUI, Mizunao; KOBAYASHI, Kenta; KAWAKAMI, Syouhei; SAITO, Takashi; HIROKO, Makita

3C2-31 Preparation of bioluminescent *Escherichia coli* cell and its application for the rapid screening of environmental toxins (KIT) ○TOMOYAMA, Hiroyuki; KUZUKAWA, Daiki; FUKAO, Yosiki; IHARA, Yutaka; KARATANI, Hajime

3C2-32* LSPR biosensor fabricated via pressure-free nanoimprinting using HSQ polymer (Grad. Sch. Eng., Osaka Univ.) ○JIANG, Shu; SAITO, Masato; MURAHASHI, Mizuho; TAMIYA, Eiichi

Sunday, March 19, AM

Chair: WADA, Takeshi (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4C2-01, 4C2-03, 4C2-04, 4C2-05)

4C2-01* The chemical synthesis of Poly(ADP-ribose) (Grad. Sch. Eng., The Univ. of Tokyo) ○TAKENAKA, Mei; OKAMOTO, Akimitsu

4C2-03 Development of the molecule capturing poly ADP-ribose binding proteins (Fac. Eng., The Univ. of Tokyo) ○YASUDA, Masaki; TAKENAKA, Mei; OKAMOTO, Akimitsu

4C2-04 Synthesis and cross-linking properties of a novel photo-cross-linking oligonucleotide bearing a 2'-*O*-diazirinylmethyladenosine. (KIT) ○SUGIHARA, Yuta; TATSUMI, Soichi; KOBORI, Akio

4C2-05* Development of novel photo-splitting for photo-cross-linked dsDNA using DNA strand displacement (Sch. Mat. Sci., JAIST) ○NAKAMURA, Shigetaka; KAWABATA, Hayato; FUJIMOTO, Kenzo

Chair: OKAMOTO, Akimitsu (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4C2-08, 4C2-10, 4C2-11, 4C2-12, 4C2-13)

4C2-08* Stereocontrolled synthesis and properties of P-modified chimeric oligoribonucleotides (Fac. Pharm. Sci., TUS) ○NUKAGA, Yohei; NATSUHISA, Oka; WADA, Takeshi

4C2-10 Stereocontrolled synthesis of boranophosphate DNA by an oxazopholidine approach (Fac. Pharm. Sci., TUS) ○SAITO, Tatsuya; ISHII, Yuka; NUKAGA, Yohei; UCHIYAMA, Naoki; IWAMOTO, Naoki; WADA, Takeshi

4C2-11 Synthesis of cyclic oligonucleotides containing acyl groups at the 5' - and 3' -terminal sites (Sch. Life Sci. Tech., Tokyo Tech.) ○NISHIZAWA, Shuhei; HASHIMOTO, Ritsu; KANAMORI, Takashi; YUASA, Hideya; OHKUBO, Akihiro

4C2-12 Synthesis and properties of oligonucleotides containing 2-N-heteroaryl guanosine derivatives. (Sch. Biosci. Biotech., Tokyo Tech.) INDE, Takeshi; ○MARUYAMA, Atsuya; ITO, Yu; MAKIO, Naoaki; TOMORI, Takahito; MIYATAKE, Yuya; MASAKI, Yoshiaki; SEKINE, Mitsuo; SEIO, Kohji

4C2-13* Creation of N3-modified thioflavin T derivatives for expansions of binding specificities (Sch. Sci. Tech., Gunma Univ.) ○KATAOKA, Yuka; FUJITA, Hiroto; KUWAHARA, Masayasu

Chair: KUWAHARA, Masayasu (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4C2-15, 4C2-16, 4C2-17, 4C2-19, 4C2-20)

4C2-15 Enantioselective aziridination using DNA hybrid catalyst (Dep. Chem., Sch. Sci., Kyoto Univ.) ○MATSUI, Haruka; PARK, Soyoun; SUGIYAMA, Hiroshi

4C2-16 Enantioselective hydration of α, β -unsaturated ketones using DNA hybrid catalysts (Dep. Chem., Sch. Sci., Kyoto Univ.) ○HIRAGA, Ryota; PARK, Soyoun; SUGIYAMA, Hiroshi

4C2-17* Cu-dmbpy/DNA-silica Minerals for Asymmetric Diels-Alder Reactions (Dep. Chem., Sch. Sci., Kyoto Univ.) ○SAKASHITA, Sohei; PARK, Soyoun; SUGIYAMA, Hiroshi

4C2-19 Design of artificial oligonucleotides as drugs for boron neutron capture therapy (BNCT) (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○ASAHI, Wataru; KURIHARA, Ryohsuke; TANABE, Kazuhito

Room C3

Fourth Building, Section B J14

Sunday, March 19, PM

Chair: OBIKA, Satoshi (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(4C2-28, 4C2-29, 4C2-30, 4C2-31, 4C2-32, 4C2-33)
- 4C2-28** Synthesis and Properties of siRNA Containing Benzene-Glycol Nucleic Acids (Fac. Applied Bio. Sci., Gifu Univ.) ○YANASE, Hiroyuki; NIWA, Nazuki; UENO, Yoshihito
- 4C2-29** Synthesis and Properties of 4'-C-Aminoalkyl-2'-O-methyl Modified Nucleic Acids (Fac. Applied Bio. Sci., Gifu Univ.) ○KOIZUMI, Kana; KANOU, Toshifumi; MAEDA, Yusuke; UENO, Yoshihito
- 4C2-30** New synthetic procedure for modified nucleic acids having sulfonamide linkage (Sch. Life Sci. Tech., Tokyo Tech.) ○SEKIYA, Shota; KITAGAWA, Ryo; TAGO, Nobuhiro; MASAKI, Yoshiaki; SEIO, Kohji
- 4C2-31** Synthesis of 2',5'-dideoxy-5'-sulfomethylnucleosides having fluorine at α carbon (Sch. Life Sci. Tech., Tokyo Tech.) ○KITAGAWA, Ryo; TAGO, Nobuhiro; SEKIYA, Shota; MASAKI, Yoshiaki; SEKINE, Mitsuo; SEIO, Kohji
- 4C2-32** Structural redesign for alkynyl C-nucleotides with improved complementarity in DNA replication by Klenow fragment (Grad. Sch. Pharm. Sci., Univ. of Toyama) ○ODA, Yutaro; CHIBA, Junya; INOUE, Masahiko
- 4C2-33** Synthetic study of bio-labile protecting group for prodrug type oligonucleotides (Dept. of Material & Life Chem., Kanagawa Univ.) ○SANEYOSHI, Hisao; HIYOSHI, Yuki; ONO, Akira

Chair: SEIO, Kohji (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(4C2-35, 4C2-36, 4C2-37, 4C2-38, 4C2-39, 4C2-40)
- 4C2-35** Synthesis and Properties of 2'-O,4'-C-Spirocyclopropylene Bridged Nucleic Acids (scpBNA) having a Purine Base (Sch. Pharm., Osaka Univ.) ○HORIBA, Masahiko; YAMAGUCHI, Takao; OBIKA, Satoshi
- 4C2-36** Synthesis and Properties of Oligonucleotides Bearing 2',4'-BNA/LNA-7-deazapurines: torsion angle around glycosidic bond affects their thermostability. (Sch. Pharm., Osaka Univ.) ○HARA, Takashi; KODAMA, Tetsuya; TAKEGAKI, Yumi; MORIHIRO, Kunihiko; KODUKE, Ito; OBIKA, Satoshi
- 4C2-37[#]** Synthesis of cyclic polyoxazole compound and evaluation of its selective binding to G4 and i-motif (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SEGDHI MASOUD, Shadi; MA, Yue; MARCHAND, Adrien; GABELICA, Valerie; NAGASAWA, Kazuo
- 4C2-38** Synthesis of amphiphilic oligonucleotides possessing substituted azobenzene units and their aggregation properties (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○ITAGAKI, Takuma; KURIHARA, Ryohsuke; TANABE, Kazuhito
- 4C2-39** Quantum chemical approach for the design of ligands targeting a thymine bulge (ISIR, Osaka Univ.) ○YANO, Ayaka; NAKATANI, Kazuhiko
- 4C2-40** Evaluation of repeat DNA binding ligands having a hydrophobic functional group (ISIR, Osaka Univ.) ○YAMAUCHI, Kazuaki; DOHNO, Chikara; NAKATANI, Kazuhiko

Chair: UENO, Yoshihito (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(4C2-42, 4C2-43, 4C2-44, 4C2-45, 4C2-46)
- 4C2-42** Synthesis of modified DNAs using immobilized enzymes (Grad. Sch. Sci. Tech., Gunma Univ.) ○HAGIWARA, Kenta; NAGANO, Remi; FUJITA, Hiroto; HOSINO, Hidekazu; KASAHARA, Yuuya; OBIKA, Satoshi; KUWAHARA, Masayasu
- 4C2-43[#]** Enzymatic Synthesis of Artificial Metallo-DNA utilizing Two-step Primer Extension (Grad. Sch. Sci., The Univ. of Tokyo) ○NAKAMA, Takahiro; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiko
- 4C2-44** Enzymatic synthesis of nucleic acids containing a pyridazin-3-one as a base analog (Grad. Sch. Biosci. Biotech., Tokyo Tech.) ○NAGAOKA, Kento; TOMORI, Takahito; TAKESHITA, Leo; MIYATAKE, Yuya; MASAKI, Yoshiaki; SEKINE, Mitsuo; SEIO, Kohji
- 4C2-45** Synthesis of photo-caged nucleoside triphosphate for increase of incorporation efficiency by DNA polymerase reaction (Sch. Life Sci. Tech., Tokyo Tech.) ○TAKESHITA, Leo; OHNO, Kentaro; NAGAOKA, Kento; MASAKI, Yoshiaki; SEIO, Kohji
- 4C2-46[#]** Chemical Ligation of Oligonucleotides using Electrophilic Phosphorothioester (Grad. Sch. Sci., Nagoya Univ.) ○KIMURA, Yasuaki; MARUYAMA, Hideto; OIKAWA, Ryota; HAYAKAWA, Mayu; ABE, Naoko; MATSUDA, Akira; SHUTO, Satoshi; ITO, Yoshihiro; ABE, Hiroshi

Biofunctional Chemistry ; Biotechnology

Thursday, March 16, AM

Chair: YAMAMOTO, Yasuhiko (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1C3-01, 1C3-02, 1C3-03, 1C3-04, 1C3-05, 1C3-06)
- 1C3-01** Functional Analysis of Outer Membrane Heme Transporter HasR from *Pseudomonas Aeruginosa* for Elucidation of Growth Inhibition Mechanism (Grad. Sch. Sci., Nagoya Univ.) ○SHISAKA, Yuma; SHOJI, Osami; WATANABE, Yoshihito
- 1C3-02** Growth inhibition of *Pseudomonas aeruginosa* by heme acquisition protein having synthetic metal complexes (Grad. Sch. Sci., Nagoya Univ.) ○UEHARA, Hiromu; SHOJI, Osami; SUGIMOTO, Hiroshi; SHIRO, Yoshitsugu; WATANABE, Yoshihito
- 1C3-03** Construction of a Hemoprotein-modified Electrode Using Cofactor-specific Anchoring by Click Reaction (Grad. Sch. Eng., Osaka Univ.) ○INOUE, Nozomu; ONODA, Akira; CAMPIDELLI, Stéphane; HAYASHI, Takashi
- 1C3-04** Synthesis and characterization of intermolecular crosslinked hemoglobin assembly with 4-armed PEG (Dept. Chem., Nara Med. Univ.) ○MATSUHIRA, Takashi; YAMADA, Magohei; KURE, Tomoko; YAMAMOTO, Keizo; SAKAI, Hiromi
- 1C3-05** Highly efficient hydroxylation of benzene utilizing substrate misrecognition of fatty acid monooxygenase (Grad. Sch. Sci., Nagoya Univ.) ○YANAGISAWA, Sota; CONG, Zhiqi; SHOJI, Osami; SUGIMOTO, Hiroshi; SHIRO, Yoshitsugu; WATANABE, Yoshihito
- 1C3-06** Controlling Enantioselectivity of Asymmetric Oxidation of Non-native Substrates Catalyzed by Cytochrome P450BM3 Using Decoy Molecules (Grad. Sch. Sci., Nagoya Univ.) ○SUZUKI, Kazuto; SHOJI, Osami; STANFIELD, Joshua Kyle; YANAGISAWA, Sota; WATANABE, Yoshihito

Chair: OSAMI, Shoji (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1C3-08, 1C3-10, 1C3-11, 1C3-12, 1C3-13)
- 1C3-08[#]** Design of domain-swapped myoglobin dimer (Grad. Sch. Mat. Sci., NAIST; Grad. Sch. Life Sci., Univ. of Hyogo) ○NAGAO, Satoshi; SUDA, Ayaka; KOBAYASHI, Hisashi; SHIBATA, Naoki; HIGUCHI, Yoshiki; HIROTA, Shun
- 1C3-10** Effects of systematic heme chemical-modifications and distal amino acid replacements on function of myoglobin. (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○WATANABE, Miho; KANAI, Yuki; NISHIMURA, Ryu; SHIBATA, Tomokazu; MATSUO, Takashi; HIROTA, Shun; YANAGISAWA, Sachiko; OGURA, Takashi; SUZUKI, Akihiro; NEYA, Saburo; YAMAMOTO, Yasuhiko
- 1C3-11** Characterization of ground state electron configurations of high-spin quintet ferrous heme iron in ferrous horseradish peroxidase (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○NAMIKI, Kosuke; SHIBATA, Tomokazu; SUZUKI, Akihiro; NEYA, Saburo; YAMAMOTO, Yasuhiko
- 1C3-12** Oligomerization of Cytochrome *c'* from *Rhodospseudomonas palustris* (Grad. Sch. Mat. Sci., NAIST) ○KUBOTA, Masashi; MIYAMOTO, Takaaki; HIROTA, Shun
- 1C3-13** Structural analysis and excitation energy transfer of the bacterial light-harvesting-reaction center complexes (Coll. Sci., Ibaraki Univ.) ○TAKENOUCHE, Mizuki; OTOMO, Sei; KAWAKAMI, Tomoaki

Chair: HIROTA, Shun (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1C3-15, 1C3-16, 1C3-17, 1C3-18, 1C3-19)
- 1C3-15** Dual function of the human peroxiredoxin I: H₂O₂ dismutase activity and heme binding (Fac. Sci., Hokkaido Univ.) WATANABE, Yuta; ISHIMORI, Koichiro; ○UCHIDA, Takeshi
- 1C3-16** Reconstitution of Metalloenzyme with Synthetic Metal Complexes and Evaluation of Their Catalytic Activity (Grad. Sch. Sci., Nagoya Univ.) ○MURAMATSU, Atsushi; SHOJI, Osami; WATANABE, Yoshihito
- 1C3-17** Elucidation of catalytic mechanism of NiS₂ cysteine desulfurase of NIF machinery, in iron-sulfur cluster biogenesis (Fac. Sci., Saitama Univ.) ○NAKAMURA, Ryosuke; FUJISHIRO, Takashi; TAKAHASHI, Yasuhiro
- 1C3-18** Protein-protein interaction analysis of iron-sulfur cluster biosynthetic protein IscA with ferredoxin FdxN (Grad. Sch. Sci., Eng., Saitama Univ.) ○FUJISHIRO, Takashi; OHNO, Chika; KAMIOKA, Yuuki; TAKAHASHI, Yasuhiro
- 1C3-19[#]** Specificity-determining structural elements of antibody against metal complexes (Grad. Sch. Eng., The Univ. of Tokyo) ○AKIBA, Hiroki; YOSHIDA, Ryosuke; KAWADE, Raiji; CAAVEIRO, Jose; TSUMOTO, Kouhei

Thursday, March 16, PM

Chair: FURUKAWA, Yoshiaki (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1C3-28, 1C3-29, 1C3-30, 1C3-31, 1C3-33)
- 1C3-28** Analysis of reconstitution of bacteriochlorophyll *a* into conjugates of light-harvesting protein LH2 of purple photosynthetic bacteria with metal ions (Fac. Sci. Eng., Kindai Univ.; PRESTO, JST) SAGA, Yoshitaka; ○MIYAGI, Kanji
- 1C3-29** Reconstitution of Chlorophyll *a* Derivatives into the Light-Harvesting Protein 2 of Purple Photosynthetic Bacteria (Fac. Sci. Eng., Kindai Univ.; PRESTO, JST) SAGA, Yoshitaka; ○AMARI, Kenta; MIYAGI, Kanji
- 1C3-30** Preparation and oxidative reactivity of copper-proteins containing a Tyr-Cys cross-linkage (Grad. Sch. Eng., Osaka Univ.; Grad. Sch. Eng., Osaka Univ.) ○YAMAWAKI, Sayaka; TANIGUCHI, Yuki; FUJIEDA, Nobutaka; ITOH, Shinobu
- 1C3-31**** Successive Energy Transfer in Zn-substituted Hexameric Hemoprotein with Multiple Photosensitizers toward Constructing an Artificial Light Harvesting Antenna (Grad. Sch. Eng., Osaka Univ.; PRESTO, JST) ○MASHIMA, Tsuyoshi; OOHORA, Koji; HAYASHI, Takashi
- 1C3-33** Elucidation of evolutionary acquisition of the heme-degradation function of HutZ, from *Vibrio cholerae* (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○DOJUN, Nobuhiko; ISHIMORI, Koichiro; UCHIDA, Takeshi

Chair: UCHIDA, Takeshi (14 : 40~15 : 50)

- * 14:30-14:40: interval for laptop PC connection.(1C3-35, 1C3-36, 1C3-37, 1C3-38, 1C3-40)
- 1C3-35#** Effect of Rare Codons on *Hydrogenobacter thermophilus* cytochrome *c*₅₅₂ Oligomerization in *E. coli* Cells (Grad. Sch. Mat. Sci., NAIST) ○YANG, Hongxu; HAYASHI, Yugo; YAMANAKA, Masaru; NAGAO, Satoshi; HIROTA, Shun
- 1C3-36** Preparation and Reactivity of Artificial Metalloenzymes Containing A Mononuclear Palladium Reaction Center (Grad. Sch. Eng., Osaka Univ.) ○MATSUO, Atsuki; ICHIHASHI, Haruna; FUJIEDA, Nobutaka; ITOH, Shinobu
- 1C3-37** Enantioselective Michael Addition Reaction Catalyzed by Amyloid Fibrils-Cu Ion Complexes (Grad. Sch. Eng., Osaka Univ.) ○TONOMURA, Atsushi; FUJIEDA, Nobutaka; ITOH, Shinobu
- 1C3-38**** Formation of Cytochrome *c'* Oligomers Using Domain-Swapped Dimers and Carbon Monoxide-Dependent Control of Oligomer Association/Dissociation (Grad. Sch. Mat. Sci., NAIST) ○YAMANAKA, Masaru; NAKAYAMA, Ryoko; NAGAO, Satoshi; HOSHIZUMI, Makoto; SHIBATA, Naoki; HIGUCHI, Yoshiki; HIROTA, Shun
- 1C3-40**** Characterization of the cytochrome *c* membrane-binding site using solution NMR (Grad. Sch. Mat. Sci., NAIST) ○KOBAYASHI, Hisashi; NAGAO, Satoshi; HIROTA, Shun

Chair: HAYASHI, Takashi (16 : 00~17 : 10)

- * 15:50-16:00: interval for laptop PC connection.(1C3-43, 1C3-44, 1C3-46, 1C3-47, 1C3-48, 1C3-49)
- 1C3-43** The effect of weak interaction on the electron transfer reaction of the blue copper protein, Pseudoazurin (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○AKAO, Kohei; KOHZUMA, Takamitsu; YAMAGUCHI, Takahide
- 1C3-44*** FT-IR studies on the activation mechanism of [NiFe] hydrogenase using light irradiation (Grad. Sch. Mat. Sci., NAIST; Grad. Sch. Life Sci., Univ. of Hyogo; CREST, JST) ○TAI, Hulin; XU, Liyang; NISHIKAWA, Koji; HIGUCHI, Yoshiki; HIROTA, Shun
- 1C3-46#** Development of Enantioselective Michael Addition Reaction Catalyzed by A Copper-containing Artificial Metalloenzyme (Grad. Sch. Eng., Osaka Univ.) ICHIHASHI, Haruna; ○FUJIEDA, Nobutaka; ITOH, Shinobu
- 1C3-47** A mechanism regulating full activation of Cu/Zn-superoxide dismutase (Grad. Sch. Sci. Tech., Keio Univ.) ○FUKUOKA, Mami; FURUKAWA, Yoshiaki
- 1C3-48** A dual role of cysteine residue in the enzymatic activation of metalloenzyme (Grad. Sch. Sci. Tech., Keio Univ.) ○KOKUBO, Teppei; SAKURAI, Yasuyuki; FURUKAWA, Yoshiaki
- 1C3-49** Dimer Formation of a Blue Copper Protein Pseudoazurin, Thr36His Variant (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○AKAKURA, Moe; OSHITA, Hiromi; YAMAGUCHI, Takahide; SYOMURA, Yasuhiro; KOHZUMA, Takamitsu

Chair: FUJIEDA, Nobutaka (17 : 20~18 : 40)

- * 17:10-17:20: interval for laptop PC connection.(1C3-51, 1C3-52, 1C3-53, 1C3-54, 1C3-56, 1C3-57)
- 1C3-51** Complexation of Nucleic Acids and Peptide Carriers Displaying a Nuclear Localization Signal for Cellular Uptake. (Grad. Sch. Sci. Tech., Ryukoku Univ.) ○KATAOKA, Shunsuke; IMAI, Takahito; USUI, Kenji; TOMIZAKI, Kin-ya
- 1C3-52** Selective Reduction of Gold Precursors in the Presence of Metal Ion Contaminants with Aromatic Ring-Containing Peptide Templates (Grad. Sch. Sci. Tech., Ryukoku Univ.) ○OKAMOTO, Takuya; IMAI, Takahito; TOMIZAKI, Kin-ya

- 1C3-53** Novel Phage-display Method with Enhanced Efficiency by Magnetic Orientation of Rod-shaped Virus (M13 Phage) (RIKEN CEMS; Grad. Sch. Eng., The Univ. of Tokyo) ○UENO, Kento; UCHIDA, Noriyuki; SATO, Toshinori; ISHIDA, Yasuhiro; AIDA, Takuzo
- 1C3-54*** Construction of glycopeptide phage libraries with designed structures and application to screening of lectin binding glycopeptide ligands (Sch. Life Sci. Tech., Tokyo Tech.) ○TSUTSUMI, Hiroshi; CHANG, Jouven; HIROHARA, Youhei; MIHARA, Hisakazu
- 1C3-56** Prebiotic peptide bond formation by α -amino thioacid (Grad. Sch. Sci., Osaka Univ.) ○HARAGUCHI, Takuya; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro
- 1C3-57**** Protein nanostructures constructed by fusing two oligomerization domains with a 3-helix bundle linker (Grad. Sch. Mat. Sci., NAIST) ○MIYAMOTO, Takaaki; HIROTA, Shun

Friday, March 17, AM

Chair: TAKAHASHI, Tsuyoshi (9 : 00 ~10 : 10)

- * 8:50-9:00: interval for laptop PC connection.(2C3-01, 2C3-02, 2C3-03, 2C3-04, 2C3-06)
- 2C3-01** Development of fluorescence probe for intercellular detection of cathepsin D (Fac. Sci., Fukuoka Univ.) ○KITAMURA, Reina; IWASHITA, Hidefumi; NAKAGAWA, Hiroyuki; NAGAHORA, Noriyoshi; OKUMA, Kentaro; SHIOJI, Kosei
- 2C3-02** In vitro synthesis of oxazole-containing peptides using post-translational organic chemical reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○TSUTSUMI, Haruka; GOTO, Yuki; SUGA, Hiroaki
- 2C3-03#** *in vitro* biosynthesis of peptides containing alkyl-backbone via post-translational acyl-transfer reaction (Grad. Sch. Sci., The Univ. of Tokyo) ○KURODA, Tomohiro; GOTO, Yuki; SUGA, Hiroaki
- 2C3-04**** Combination of enzymatic and chemical post-translational modifications for synthesis of various backbone-modified peptides (Grad. Sch. Sci., The Univ. of Tokyo) ○KATO, Yasuhiro; GOTO, Yuki; SUGA, Hiroaki
- 2C3-06**** Construction of phototactic liposomes based on photo-induced growth of peptide nanofibers (Grad. Sch. Eng., Tottori Univ.; Inst. Bio. Sci., Tokushima Univ. Grad. Sch.) ○INABA, Hiroshi; UEMURA, Akihito; MORISHITA, Kazushi; KOHIKI, Taiki; SHIGENAGA, Akira; OTAKA, Akira; MATSUURA, Kazunori

Chair: TSUTSUMI, Hiroshi (10 : 20~11 : 30)

- * 10:10-10:20: interval for laptop PC connection.(2C3-09, 2C3-10, 2C3-12, 2C3-13, 2C3-14, 2C3-15)
- 2C3-09** Synthesis of caged arginine and light-control of bioactive peptides (Fac. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○KONDA, Yoshiaki; HAYASHI, Gosuke; OKAMOTO, Akimitsu
- 2C3-10**** Photoreaction dynamics of red and far-red light sensor protein Cph1 photosensory module (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TAKEDA, Kimitoshi; TERAZIMA, Masahide
- 2C3-12** Effects of leaving groups on the native chemical ligation dependent on ligand-protein interactions (Grad. Sch. Sci. Tech., Gunma Univ.) ○TAKAHASHI, Tsuyoshi
- 2C3-13** A Modified Skin Sensitization Test for Poorly Water-Soluble Substances Using Peptide-Immobilized Resins with a Photo-Labile Linker (FIRST, Konan Univ.) ○MINAMINO, Yuuki; MIYAZAKI, Hiroshi; OKAHIRA, Riko; MEKATA, Hideaki; TAKAISHI, Masayuki; YAMASHITA, Kunihiko; HAMADA, Yoshio; USUI, Kenzi
- 2C3-14** Synthesis and evaluation of heterodimers of macrocyclic peptides targeting two different proteins (Fac. Sci., The Univ. of Tokyo) ○MIYAIRI, Kyohei; GOTO, Yuki; SUGA, Hiroaki
- 2C3-15** Molecular design of peptides toward introduction of functional molecules into interior space of microtubules (Grad. Sch. Eng., Tottori Univ.; Fac. Sci., Hokkaido Univ.) ○YAMAMOTO, Takahisa; INABA, Hiroshi; KABIR, Arif Md. Rashedul; KAKUGO, Akira; SADA, Kazuki; MATSUURA, Kazunori

Chair: MATSUURA, Kazunori (11 : 40~12 : 10)

- * 11:30-11:40: interval for laptop PC connection.(2C3-17)
- 2C3-17#** CSJ Award for Young Chemists Development of Novel Bioactive Molecules Using Artificial In Vitro Biosynthesis Systems (Grad. Sch. Sci., The Univ. of Tokyo) ○GOTO, Yuki

Friday, March 17, PM

Chair: MATSUBARA, Teruhiko (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(2C3-34, 2C3-36, 2C3-37, 2C3-38, 2C3-39)
- 2C3-34**** Ca^{2+} -responsive supramolecular peptide hydrogels for cell culture (Sch. Life Sci. Tech., Tokyo Tech.) ○FUKUNAGA, Kazuto; TSUTSUMI, Hiroshi; MIHARA, Hisakazu
- 2C3-36** Detail analysis of cellular uptake property of amphiphilic α -helical peptides (Sch. Life Sci. Tech., Tokyo Tech.) ○SHIBUTANI, Keisuke; TAO, Xinran; TSUTSUMI, Hiroshi; MIHARA, Hisakazu
- 2C3-37** Establishment of a procedure for solid phase synthesis of conformationally constrained *N*-substituted peptides (Grad. Sch. Eng., The Univ. of Tokyo) ○FUKUDA, Yasuhiro; MORIMOTO, Jumpei; SANDO, Shinsuke

2C3-38 Synthesis of N-terminal Thz-Peptide Thioester via Peptide Hydrazide (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○YAMAMOTO, Kazuki; SATO, Kohei; NARUMI, Tetsuo; WATANABE, Naoharu; MASE, Nobuyuki

2C3-39 Construction of Gold-Titanium Nanocomposites by Mineralization Using Two Artificial Peptides (FIRST, Konan Univ.) ○OZAKI, Makoto; SAKASHITA, Syungo; IMAI, Takahito; TSURUOKA, Takaaki; HAMADA, Yoshio; TOMIZAKI, Kin-ya; USUI, Kenji

Chair: FUJIMOTO, Kazuhisa (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(2C3-41, 2C3-43, 2C3-44, 2C3-45, 2C3-46)

2C3-41* Creation of artificial viral capsid bearing coiled-coil structure on the surface (Grad. Sch. Eng., Tottori Univ.) ○FUJITA, Seiya; MATSUURA, Kazunori

2C3-43 Construction of Artificial Viral Capsid having Ribonuclease S on the surface (Grad. Sch. Eng., Tottori Univ.) ○OTA, Junpei; SHIOMI, Yuriko; FUJITA, Seiya; INABA, Hiroshi; MASTUURA, Kazunori

2C3-44# Discovery of Macrocyclic Peptide Ligands Adopting β -Hairpin Structure (Grad. Sch. Sci., The Univ. of Tokyo) ○YOSHIKANE, Takafumi; GOTO, Yuki; SUGA, Hiroaki

2C3-45 Screening for artificial leader peptides aiming at super-activation of PatD cyclodehydratase (Grad. Sch. Sci., The Univ. of Tokyo) ○TAKEUE, Haruka; TSUNODA, Shotaro; GOTO, Yuki; SUGA, Hiroaki

2C3-46# Effect of block length on the self-assembly of elastin-like block polypeptides (Grad. Sch. Eng., Nagoya Univ.; Nagoya Univ. VBL) ○SUGAWARA-NARUTAKI, Ayae; YASUNAGA, Sawako; LE, Duc H. T.; OHTSUKI, Chikara

Chair: SUGAWARA-NARUTAKI, Ayae (16 : 50~17 : 40)

* 16:40-16:50: interval for laptop PC connection.(2C3-48, 2C3-49, 2C3-50, 2C3-51, 2C3-52)

2C3-48 Effect on the intracellular stability for D-amino acid-introduced, cross-linked helical peptide at C-terminus (Grad. Sch. Pharm. Sci., Univ. of Toyama; Fac. Sci., Shizuoka Univ.; Fac. Eng., Kyushu Sangyo Univ.) ○NOGAMI, Kagayaki; ISOKAWA, Gochi; FUJIMOTO, Kazuhisa; OYOSHI, Takanori; INOUE, Masahiko

2C3-49 Immobilization and structural evaluation of cross-linked helical peptides on Au surfaces directed toward application of peptide chips (Grad. Sch. Pharm. Sci., Univ. of Toyama) ○SAKAGUCHI, Ikumi; FUJIMOTO, Kazuhisa; INOUE, Masahiko

2C3-50 Self-assembly properties and structural analyses of cyclic elastin-derived peptide analogs cyclo(FPGVG)_n and cyclo(WPGVG)_n (Fac. Arts and Sci., Kyushu Univ.) ○SUYAMA, Keitaro; TATSUBO, Daiki; KESAMARU, Hitoshi; MAEDA, Iori; NOSE, Takeru

2C3-51 Construction of a large library of D-peptides containing an α , α -disubstituted amino acid and screening of the library against MDM2 (Fac. Eng., The Univ. of Tokyo) ○HOSONO, Yuki; MORIMOTO, Jumpei; SANDO, Shinsuke

2C3-52 Development of membrane permeability assay of peptides using fluorogenic Huisgen cycloaddition reaction between terminal alkyne tag and azidocoumarin (Grad. Sch. Eng., The Univ. of Tokyo) ○AMANO, Rei; MORIMOTO, Jumpei; SANDO, Shinsuke

Saturday, March 18, AM

Chair: SODE, Koji (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3C3-01, 3C3-03, 3C3-04, 3C3-05)

3C3-01** Discovery of disease-related peptide hydrolases using enzym-omics approach (Grad. Sch. Pharm., The Univ. of Tokyo) ○KOMATSU, Toru; ONAGI, Jun; ICHIHASHI, Yuuki; HANAOKA, Kenjiro; NAGANO, Tetsuo; URANO, Yasuteru

3C3-03 Screening of inhibitors against protein fibrillation responsible for neurodegenerative diseases (Fac. Sci. Tech., Keio Univ.) ○NAKAMURA, Kohei; TOKUDA, Eiichi; FURUKAWA, Yoshiaki

3C3-04 Screening of inhibitors against protein misfolding responsible for amyotrophic lateral sclerosis (Fac. Sci. Tech., Keio Univ.) ○HANDA, Sumika; TOKUDA, Eiichi; FURUKAWA, Yoshiaki

3C3-05** A mechanism on the pathological formation of toxic protein oligomers in the neurodegenerative disease (Grad. Sch. Sci. Tech., Keio Univ.) ○ANZAI, Itsuki; TOKUDA, Eiichi; MUKAIYAMA, Atsushi; AKIYAMA, Shuji; FURUKAWA, Yoshiaki

Chair: FURUKAWA, Yoshiaki (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3C3-08, 3C3-09, 3C3-10, 3C3-11, 3C3-13)

3C3-08 Improvement of the recombinant production of *Aspergillus niger* derived FAD glucose dehydrogenase using *Escherichia coli*. (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○ITO, Kohei; MATSUI, Riho; MORI, Kazushige; KOJIMA, Katsuhiro; ASANO, Ryutarō; SODE, Koji

3C3-09 Investigation of cysteine-repeat in the glucoside 3-dehydrogenase from *Rhizobium radiobacter* (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○MIYAZAKI, Ryota; KOJIMA, Katsuhiro; YAMAZAKI, Tomohiko; TSUGAWA, Wakako; ASANO, Ryutarō; SODE, Koji

3C3-10 Structural analyses of fructosamine 6- kinase derived from *Escherichia coli* (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SUZUKI, Keita; YOSHIDA, Hiromi; TSUGAWA, Wakako; ASANO, Ryutarō; SODE, Koji

3C3-11** Evaluation of Residue-selectivity of HATs/HDACs by LC-MS/MS (Grad. Sch. Pharm., The Univ. of Tokyo; JST-ERATO; Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○TANABE, Kana; KURUMIZAKA, Hitoshi; YAMATSUGU, Kenzo; KAWASHIMA, Shigehiro A.; KANAI, Motomu

3C3-13 Detection of protease activity by pyrene fluorescence. (Grad. Sch. Life Sci. Sys. Eng., KIT) ○HASHIMOTO, Kosei; FURUKAWA, Kiyotaka; SATO, Daisuke; KATO, Tamaki

Chair: HAYASHI, Gosuke (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3C3-15, 3C3-17, 3C3-18, 3C3-19, 3C3-20)

3C3-15** Reaction dynamics of photo-activation and DNA-binding of the light-dependent DNA binding protein EL222 (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TAKAKADO, Akira; NAKASONE, Yusuke; TERAZIMA, Masahide

3C3-17 Caffeine demethylation by thermophilic cytochrome P450 from *Sulfolobus tokodaii* strain 7 (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HATANAKA, Mizuki; TSURUOKA, Naoya; YOHTA, Masahumi; OHNO, Hiroyuki; NAKAMURA, Nobuhumi

3C3-18 Effect of Introduction of Leucine Residue in the Vicinity of the Active Site of Pseudoazurin (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○SAKAI, Chihiro; KOHZUMA, Takamitsu

3C3-19 Effect of Protonation of Newly Introduced His Residue near the Active Site of a Blue Copper Protein, Pseudoazurin (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○TAKEBAYASHI, Naoki; YAMAGUCHI, Takahide; KOHZUMA, Takamitsu

3C3-20 Site-specific chemical modification of Lys175 in the vicinity of the active site of chymotrypsin. (Appl. Chem. Kanazawa Inst. of Tech.) HATAKEYAMA, Takahiro; KOGA, Masato; YAMADA, Atsushi; YOSHIDA, Tatsuya; KAWAKAMI, Toru; KURODA, Hirofumi; OYAMA, Hiroshi; ○ONO, Shin

Saturday, March 18, PM

Chair: TSUMOTO, Kouhei (13 : 40~15 : 00)

* 13:30-13:40: interval for laptop PC connection.(3C3-29, 3C3-32, 3C3-34, 3C3-35, 3C3-36)

3C3-29# Young Scholar Lectures of CSJ Creation of Functional Protein Crystals by *in vivo* Crystal Engineering (Sch. Life Sci. Tech., Tokyo Tech.) ○ABE, Satoshi

3C3-32** Construction for epigenetic analysis platform by protein chemical synthesis (Grad. Sch. Eng., The Univ. of Tokyo) ○HAYASHI, Gosuke; OKAMOTO, Akimitsu

3C3-34 Synthesis of a lysine derivative having a new carbamate type protecting group and its utility for a peptide coupling reaction (Grad. Sch. Sci., Osaka Univ.) ○ONO, Emiko; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

3C3-35 A fluorescent biosensor for nitric oxide based on the auto-fluorescent protein (IAE, Kyoto Univ.) ○TAJIMA, Shunsuke; NAKATA, Eiji; SAIMURA, Masayuki; MORII, Takashi

3C3-36 Improving cellulose hydrolysis activity by co-localized multiple cellulase complexes on magnetic nanoparticles (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○TAYAMA, Sayaka; HONDA, Toru; ITO, Yasuhiro; TANAKA, Tsuyoshi; YOSHINO, Tomoko

Chair: MAKABE, Koki (15 : 10~16 : 10)

* 15:00-15:10: interval for laptop PC connection.(3C3-38, 3C3-40, 3C3-41, 3C3-42)

3C3-38* Methods of preparation and stabilization for the mono-form structure of human antibody light chain (Fac. Eng., Oita Univ.) ○UDA, Taizo; AKIYOSHI, Yuki; HIFUMI, Emi

3C3-40 Generation of an IgG-like biparatopic antibody targeting a tumor-associated antigen (Grad. Sch. Eng., Osaka City Univ.) ○HIRAKAWA, Yasushi; IWASE, Akihiro; KITAMURA, Masaya; NAKANISHI, Takeshi

3C3-41 Comprehensive rearrangements of domain order of small bispecific cancer therapeutic antibody and their functional analyses (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KUROKI, Yuri; ASANO, Ryutarō; HONMA, Sachiko; AKABANE, Mihoko; WATANABE, Shunsuke; MAYUZUMI, Shinzo; HIYAMUTA, Shuichi; KUMAGAI, Izumi; SODE, Koji

3C3-42** Design and Generation of Tailor-made Biocatalysts by Directed Evolution of Lipocalin-type Prostaglandin D Synthase (L-PGDS). (Grad. Sch. Sci., Osaka Pref. Univ.; Grad. Sch. Life and Environmental Sci., Osaka Pref. Univ.) ○MIYAMOTO, Naoki; NAKATSUJI, Masatoshi; IMAMURA, Akira; INUI, Takashi; FUJII, Ikuo

Chair: NAKANISHI, Takeshi (16 : 20~17 : 20)

* 16:10-16:20: interval for laptop PC connection.(3C3-45, 3C3-47, 3C3-48, 3C3-49, 3C3-50)

3C3-45** Thermodynamic analysis of the mechanism of peptide recognition by

an anti-peptide antibody (Grad. Sch. Eng., The Univ. of Tokyo)
○MIYANABE, Kazuhiro; AKIBA, Hiroki; CAAVEIRO, Jose; KURODA, Daisuke; TSUMOTO, Kouhei

3C3-47 Analysis of the homo-dimerization of LI-cadherin by cell assay and physicochemical methods (Grad. Sch. Eng., The Univ. of Tokyo) ○YUI, Anna; KIKUCHI, Chika; KUDO, Shota; AKIBA, Hiroki; NAGATOISHI, Satoru; ARAI, Osamu; IWANARI, Hiroko; HAMAKUBO, Takao; TSUMOTO, Kouhei

3C3-48 Construction of a bispecific antibody from the camelid antibody VHHs via in-cell protein trans-splicing (Grad. Sch. Sci., Eng., Yamagata Univ.) ○HAGA, Natsuki; SHIBUYA, Yuki; ASANO, Ryutarō; UMETSU, Mitsuo; MAKABE, Koki

3C3-49 The role of aromatic packing for stability of the cross-beta spine architecture (Grad. Sch. Sci., Eng., Yamagata Univ.) ○TAKADA, Saki; MAKABE, Koki

3C3-50[#] Construction of a triangle-shaped structure with a unit protein based on cytochrome *c*₅₅₅ (Grad. Sch. Mat. Sci., NAIST) ○ODA, Akiya; UEDA, Ikki; YAMANAKA, Masaru; NAGAO, Satoshi; SHIBATA, Naoki; HIGUCHI, Yoshiki; HIROTA, Shun

Chair: NAGATOISHI, Satoru (17 : 30~18 : 40)

* 17:20-17:30: interval for laptop PC connection.(3C3-52, 3C3-53, 3C3-54, 3C3-55, 3C3-56, 3C3-57, 3C3-58)

3C3-52 Functionalization of Fc-fused small bispecific cancer therapeutic antibody by engineering the hinge region. (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SUZUKI, Saori; ASANO, Ryutarō; KUMAGAI, Izumi; SODE, Koji

3C3-53 Structural and physicochemical analysis to reveal the mechanism of phosphopeptide recognition (Grad. Sch. Eng., The Univ. of Tokyo) ○KAWADE, Raiji; AKIBA, Hiroki; CAAVEIRO, Jose; OKUMURA, Shigeru; MARUYAMA, Toshiaki; ENTZMINGER, Kevin; TSUMOTO, Kouhei

3C3-54 Cleavage of influenza RNA by artificial RNA restriction enzymes (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○MORI, Tomoaki; NAKAMURA, Kentō; MASAOKA, Keisuke; MORI, Koichi; TOBIMATSU, Takamasa; SERA, Takashi

3C3-55 Generation of artificial RNA-binding proteins (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○MONKA, Takuya; NAKAO, Taishu; SATONE, Hina; NAKAMURA, Kentō; MORI, Koichi; TOBIMATSU, Takamasa; SERA, Takashi

3C3-56 Generation of a selection system using a translational regulation switch (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○MAEDA, Haruka; HARA, Tomoaki; TOGAWA, Tsuyoshi; MORISHITA, Shiomi; MORI, Tomoaki; MORI, Koichi; TOBIMATSU, Takamasa; SERA, Takashi

3C3-57 Selection of artificial RNA-binding proteins based on translational regulation (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○TOGAWA, Tsuyoshi; HARA, Tomoaki; MAEDA, Haruka; MORISHITA, Shiomi; MORI, Tomoaki; MORI, Koichi; TOBIMATSU, Takamasa; SERA, Takashi

3C3-58 AFM analyses of chitin derivatives catalyzed by various chitinases (Grad. Sch. Biosci. Biotech., Tokyo Tech.) ○MASUI, Asuka; NAKAGAWA, Yuku; MORI, Toshiaki

Sunday, March 19, AM

Chair: MIE, Masayasu (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4C3-01, 4C3-03, 4C3-05, 4C3-06)

4C3-01[#] How does the carboxysome scaffold protein, CcmM, induce aggregation of RuBisCO? (Akita Univ. Grad.Sch.Sci.) NAKAGUCHI, Yuki; MIKI, Tomohiro; NAKAMURA, Ryutarō; SONOTAKI, Seiichi; MATSUMURA, Hiroshi; NOGUCHI, Keiichi; FUKUTANI, Yosuke; MURAKAMI, Yoshihiko; YOYODA, Masafumi; ○ODAKA, Masafumi

4C3-03[#] Use of newly designed protein supramolecule as a carrier for enzyme immobilization (Fac. Sci. Tech., Keio Univ.) ○KAWAKAMI, Norifumi; KONDO, Hiroki; MATSUZAWA, Yuki; MIYAMOTO, Kenji

4C3-05 Chemical modification of adenylate kinase for construction of a switching of metal-metal interactions (Grad. Sch. Mat. Sci., NAIST) ○MIYAKE, Teruyuki; MATSUO, Takashi; HIROTA, Shun

4C3-06 Synthesis of Hemoglobin-Albumin Clusters with a High Efficiency and Evaluation of their Oxygen-Binding Properties (Fac. Sci. Eng., Chuo Univ.) ○ANEKAWA, Takumi; FUNAKI, Ryosuke; KOMATSU, Teruyuki

Chair: HOHSAKA, Takahiro (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4C3-08, 4C3-09, 4C3-10, 4C3-11, 4C3-13)

4C3-08 Synthesis and Oxygen-Binding Property of HSA-Conjugated β β -Crosslinked Hemoglobin (Fac. Sci. Eng., Chuo Univ.) ○OSADA, Kazuki; KOMATSU, Teruyuki

4C3-09 Synthesis and Enzyme Activity of Catalase-Albumin Cluster (Fac. Sci. Eng., Chuo Univ.) ○ICHIHARA, Masato; YAGISAWA, Yuka; KOMATSU, Teruyuki

4C3-10[#] Construction of Biosupramolecular Assemblies Regulated by Crystalline Lattice of Protein (Grad. Sch. Biosci. Biotech., Tokyo Tech.) ○NGUYEN, Tien Khanh; NEGISHI, Hashiru; ABE, Satoshi; UENO, Takafumi

4C3-11[#] Molecular design of protein crystals for construction of highly ordered structures (Sch. Biosci. Biotech., Tokyo Tech.) ○NEGISHI, Hashiru; ABE, Satoshi; UENO, Takafumi

4C3-13 Construction of muscle-specific transcription factor protein tethered collagen nanofiber (Sch. Life Sci. Tech., Tokyo Tech.) ○OMORI, Yumeko; MASHIMO, Yasumasa; MIE, Masayasu; KOBATAKE, Eiry

Chair: ODAKA, Masafumi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4C3-15, 4C3-16, 4C3-18, 4C3-19)

4C3-15 Soluble Aggregate Formation of Type I Fimbriae FimG (Grad. Sch. Sci., Nagoya Univ.) ○OYAIZU, Misa; SHOJI, Osami; WATANABE, Yoshihito

4C3-16[#] Optical manipulation of neurite outgrowth direction in vivo using light-dependent protein oligomerization (Grad. Sch. Sci., The Univ. of Tokyo) ○ENDO, Mizuki; OZAWA, Takeaki

4C3-18 Analysis of molecular chaperones using a protein-conjugated column (Fac. Sci. and Technol., Seikei Univ.) ○ARIMA, Kaoru; KATO, Yuki; SATAKE, Yui; IMAGAWA, Ayami; HIRANO, Makoto; TOTANI, Kiichiro

4C3-19[#] Accumulation mechanism of uncommon D- β -aspartyl residue in lens α -crystallin by kinetics of spontaneous peptide bond cleavage and isomerization (Himeji Dokkyo Univ., Faculty of Pharm. Sci.) AKI, Kenzo; ○OKAMURA, Emiko

Sunday, March 19, PM

Chair: KAMIYA, Noriho (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(4C3-28, 4C3-29, 4C3-30, 4C3-32, 4C3-33)

4C3-28 Immobilization of functional nucleic acids into organic/inorganic fibermats and characterization of enzymatic activities (Grad Sch. Eng., Nagoya Inst. of Tech.) ○MIZUNO, Koji; KOEDA, Shuhei; IGUCHI, Makito; OBATA, Akiko; KASUGA, Toshihiro; MIZUNO, Toshihisa

4C3-29 Addition of biological activities to fibermats by encapsulation of protein molecules to the constituent nanofibers (Grad Sch. Eng., Nagoya Inst. of Tech.) ○IDO, Yuya; IGUCHI, Makito; ANTHONY, L. B, Marcon; OBATA, Akiko; KAGUGA, Toshihiro; MIZUNO, Toshihisa

4C3-30[#] Photocrosslinking of proteins in intermolecular and intramolecular manner through incorporation of nonnatural amino acid (Sch. Mat. Sci., JAIST) SHIBA, Rumi; WATANABE, Takayoshi; ○HOHSAKA, Takahiro

4C3-32 Affinity-based Inhibition of Enzymatic Degradation of Peptides with a Specific Affinity for Hydrophobic Segments of Polymeric Micelles. (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TAKIZAWA, Misaki; SAWADA, Toshiki; SERIZAWA, Takeshi

4C3-33 Separation Property of Liquid Crystalline Membranes Composed of Filamentous Viruses (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○INOMATA, Haruhiko; SAWADA, Toshiki; SERIZAWA, Takeshi

Chair: UENO, Takafumi (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(4C3-35, 4C3-36, 4C3-37, 4C3-38, 4C3-40)

4C3-35 Impact on membrane protein stability in polymeric materials upon using the PEG modified PG-surfactants (Grad Sch. Eng., Nagoya Inst. of Tech.) ○KOEDA, Shuhei; NOJI, Tomoyasu; KAWAKAMI, Keisuke; DEWA, Takehisa; KAMIYA, Nobuo; ITOH, Shigeru; MIZUNO, Toshihisa

4C3-36 Investigation of a new method to construct the 3D structured gels including membrane proteins (Grad Sch. Eng., Nagoya Inst. of Tech.) ○TANIGUCHI, Aki; KOEDA, Shuhei; NOJI, Tomoyasu; KAWAKAMI, Keisuke; DEWA, Takehisa; KAMIYA, Nobuo; ITO, Shigeru; MIZUNO, Toshihisa

4C3-37 Stimuli-responsiveness of a Hydrogel Cross-linked by a *De Novo* Hemoprotein (Grad. Sch. Eng., Osaka Univ.; PRESTO, JST) ○HURAYAMA, Takahiro; OOHORA, Koji; HAYASHI, Takashi

4C3-38[#] Molecular recognition cavities capable of detecting of protein families with high homology of amino-acid sequence and size (Grad. Sch. Eng., Kobe Univ.) ○KAMON, Yuri; TAKEUCHI, Toshifumi

4C3-40 Development of chemically inducible genome editing based on split-type site-specific nucleases (IBB, Tokyo Med. and Dental Univ.) ○MATSUMOTO, Daisuke; NOMURA, Wataru; TAMAMURA, Hirokazu

Chair: MIZUNO, Toshihisa (15 : 50~17 : 00)

* 15:40-15:50: interval for laptop PC connection.(4C3-42, 4C3-44, 4C3-46, 4C3-47, 4C3-48)

4C3-42[#] Development of a DNA-protein conjugation methodology for cell imaging (Grad. Sch. Eng., Kyushu Univ.) ○TAKAHARA, Mari; WAKABAYASHI, Rie; GOTO, Masahiro; KAMIYA, Noriho

4C3-44[#] Analysis for structural change of NCP by acetylation (Grad. Sch. Sci., Hiroshima Univ.; Grad. Sch. Med. Life Sci., Yokohama City Univ.) ○SAIKUSA, Kazumi; SHINYA, Hiroki; KATO, Daiki; AZEGAMI, Nanako; NAGADOI, Aritaka; IZUMI, Shunsuke; NISHIMURA, Yoshifumi; KURUMIZAKA, Hitoshi; AKASHI, Satoko

4C3-46 Development of an in vitro selection method for identifying human protein-protein interactions (Grad. Sch. Sci., The Univ. of Tokyo) ○YAJIMA, Ryo; KATOH, Takayuki; SUGA, Hiroaki

4C3-47 Disassembly reaction of apo-ferritin observed by high-speed atomic

force microscopy (Sch. Life Sci. Tech., Tokyo Tech.) ○NIWASE, Kento; MAITY, Basudev; UENO, Takahashi

- 4C3-48** Elucidation of a lipid membrane permeation mechanism of protein needles reconstructed from bacteriophage T4 (Grad. Sch. Biosci. Biotech., Tokyo Tech.) ○TSUBOKAWA, Daisho; HIRATANI, Moe; KAWANO, Ryuji; FURUTA, Tadaomi; SAKURAI, Minoru; UENO, Takafumi

Room C4

Fourth Building, Section B J19

Biofunctional Chemistry ; Biotechnology

Thursday, March 16, AM

Chair: HAYASHI, Gosuke (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1C4-01, 1C4-02, 1C4-03, 1C4-04, 1C4-05)

1C4-01 Control of Electronic Property of Single DNA Molecule by Intercalation (Sch. Sci., Tokyo Tech.) ○HARASHIMA, Takanori; NISHINO, Tomoaki

1C4-02 Construction of stacked thiazole oranges and control of their emission properties using DNA structure (Grad. Sch. Eng., Univ. of Hyogo) ○HONDA, Yurika; TAKADA, Tadao; ISHINO, Shunya; NAKAMURA, Mitsunobu; YAMANA, Kazushige

1C4-03 A study on energy migration between identical fluorophores by using DNA scaffold (Nagoya Univ.) ○KAWAI, Hayato; MARUYAMA, Ryoko; KASHIDA, Hiromu; ARAKI, Yasuyuki; WADA, Takehiko; ASANUMA, Hiroyuki

1C4-04 Difference of electron-transfer modes between electrode-bound, single- and double-stranded DNAs modified with a redox-active moiety (Fac. Pharm. Sci., Univ. of Toyama) ○AOKI, Shun; CHIBA, Junya; INOUE, Masahiko

1C4-05** Development of Distance and Orientation Controlled FRET System Using Emissive dG-dC Analogue Pair (Dep. Chem., Sch. Sci., Kyoto Univ.) YAMAMOTO, Seigi; ○HAN, Jihun; PARK, Soyoun; SUGIYAMA, Hiroshi

Chair: ASANUMA, Hiroyuki (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1C4-08, 1C4-09, 1C4-10, 1C4-12)

1C4-08 Sequence-Specific Detection of Methylated DNA with Chemical Probes (Fac. Eng., The Univ. of Tokyo) ○TAKEUCHI, Fumika; OKAMOTO, Akimitsu

1C4-09 Development of a high-resolution method to detect 5-hydroxymethylcytosine by peroxotungstate and DNA sequencing and its application to genomic DNA (Fac. Eng., The Univ. of Tokyo) ○KOHYAMA, Kenta; OKAMOTO, Akimitsu; HAYASHI, Gosuke

1C4-10** Recognition of 5-methylcytosine and 5-methyluridine in RNA by Osmium Oxidation (The Univ. of Tokyo) ○DEBNATH, Turja Kanti; OKAMOTO, Akimitsu

1C4-12** Development of new chemical modification method for analysis of unique G-quadruplex structures (Fac. Med., Univ. of Miyazaki) ○ISHIZUKA, Takumi; BAO, Hong-liang; XU, Yan

Chair: NAGATOISHI, Satoru (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1C4-15, 1C4-16, 1C4-17, 1C4-18, 1C4-20)

1C4-15 Highly sensitive detection of nucleic acids in a single cell with L-DNA tag (RCAST, The Univ. of Tokyo; Grad. Sch. Eng., The Univ. of Tokyo) ○ICHIU, Anri; HAYASHI, Gosuke; OKAMOTO, Akimitsu

1C4-16 Imaging analysis of RISC localization mechanism by using siRNA involving dye pair. (Grad. Sch. Eng., Nagoya Univ.) ○SATAKE, Mayu; KAMIMOTO, Hiroshi; ITO, Anna; KAMIYA, Yukiko; ASANUMA, Hiroyuki

1C4-17 Development of bioorthogonal SERS probes and their application to nucleic acid detection. (KIT) ○OTA, Ryo; TAKAGI, Noriyuki; NAGAI, Yuki; SUGIHARA, Yuta; KOBORI, Akio

1C4-18** Visualization of human telomeres with pyrrole-imidazole polyamides targeting human telomeric repeats (Dep. Chem., Sch. Sci., Kyoto Univ.; Sch. Life Sci., SOKENDAI) ○KAWAMOTO, Yusuke; CHANDRAN, Anandhakumar; BANDO, Toshikazu; MAESHIMA, Kazuhiko; SUGIYAMA, Hiroshi

1C4-20 Selective targeting of mitochondrial DNA by a synthetic DNA-binding molecule (Dep. Chem., Sch. Sci., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○HIDAKA, Takuya; NAMASIVAYAM, Ganesh Pandian; BANDO, Toshikazu; SUGIYAMA, Hiroshi

Thursday, March 16, PM

Chair: KUWAHARA, Masayasu (13 : 40 ~ 14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(1C4-29, 1C4-31, 1C4-33)

1C4-29** Live-Cell Imaging of Bioorganic Molecules with a Small Molecule and

a Short RNA (ICR, Kyoto Univ.) ○YATSUZUKA, Kenji; SATO, Shinichi; KATSUDA, Yousuke; PE, Beverly Kathleen; UESUGI, Motonari

1C4-31** Exploration the RNA G-quadruplex using a small molecule (WPI-iCeMS, Kyoto Univ.) ○KATSUDA, Yousuke; SATO, Shinichi; YATSUZUKA, Kenji; UESUGI, Motonari

1C4-33** ATP sensors selected from a fluorophore library (IAE, Kyoto Univ.) ○NAKANO, Shun; TAMURA, Tomoki; CHANG, Young-tae; MORII, Takashi

Chair: MORII, Takashi (14 : 50 ~ 15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(1C4-36, 1C4-38, 1C4-39, 1C4-41)

1C4-36* Detection of gene mutations using signal amplification by ternary initiation complexes (SATC) (Grad. Sch. Sci. Tech., Gunma Univ.) ○FUJITA, Hiroto; KATOKA, Yuka; KUWAHARA, Masayasu

1C4-38 Detection of biomolecules using signal amplification by ternary initiation complexes (SATC) (Grad. Sch. Sci. Tech., Gunma Univ.) ○NAGANO, Remi; FUJITA, Hiroto; KATAOKA, Yuka; KUWAHARA, Masayasu

1C4-39** Development of signal amplification circuit composed of acyclic artificial nucleic acids for detection of RNA (Grad. Sch. Eng., Nagoya Univ.) ○MURAYAMA, Keiji; NAGAO, Ryuya; ASANUMA, Hiroyuki

1C4-41 Research for prebiotic synthetic pathway of ribonucleoside (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○USAMI, Kaho; OKAMOTO, Akimitsu

Chair: ENDOH, Tamaki (16 : 00 ~ 17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(1C4-43, 1C4-44, 1C4-45, 1C4-47, 1C4-48)

1C4-43 Development of efficient alkylating probes targeting double-stranded DNA containing an abasic-site (IMRAM, Tohoku Univ.) ○TANNO, Kousuke; YAMADA, Ken; SASAKI, Yoshihiro; SATO, Norihiro; ONIZUKA, Kazumitsu; NAGATSUGI, Fumi

1C4-44* Selective G-quadruplex alkylation by vinyl triazine derivatives (IMRAM, Tohoku Univ.) ○HAZEMI, Madoka Eurika; USAMI, Akira; KOBAYASHI, Tomohito; SATO, Norihiro; ONIZUKA, Kazumitsu; NAGATSUGI, Fumi

1C4-45** Mechanistic study of pseudorotaxane formation via the slipping process targeting on nucleic acids (IMRAM, Tohoku Univ.) ○ONIZUKA, Kazumitsu; CHIKUNI, Tomoko; MIYASHITA, Takuya; NAGATSUGI, Fumi

1C4-47* Investigation of stabilization and biofunction of Z-RNA and Z-DNA/Z-RNA hybrid helix stabilized by 2'-O-methyl-8-methylguanosine a Z-form stabilizer (Fac. Med., Univ. of Miyazaki) ○BALASUBRAMANIAM, Thananjayan; ISHIZUKA, Takumi; XU, Yan

1C4-48* Photo-driven DNA strands displacement mediated by azobenzene-tethered oligonucleotide (Grad. Sch. Eng., Nagoya Univ.) ○CHENG, Bohao; KASHIDA, Hiromu; SHIMADA, Naohiko; MARUYAMA, Atsushi; ASANUMA, Hiroyuki

Chair: NAGATSUGI, Fumi (17 : 10 ~ 18 : 10)

- * 17:00-17:10: interval for laptop PC connection.(1C4-50, 1C4-51, 1C4-53, 1C4-55)

1C4-50 Investigation of the RNA adduct's contribution in carcinogenesis (Fac. Eng., The Univ. of Tokyo) ○MORIYAMA, Yuya; OKAMOTO, Akimitsu

1C4-51** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (28): A non-coding tRNA regulates functionally important G-quadruplex-hairpin conformational equilibria in RNA (FIBER, Konan Univ.) ○RODE, Ambadas B.; ENDOH, Tamaki; SUGIMOTO, Naoki

1C4-53** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (29) : Analysis of structural dynamics of RNA aptamer using high pressure (FIBER, Konan Univ.; FIBER, Konan Univ.) ○TAKAHASHI, Shuntaro; ENDOH, Tamaki; RODE, Ambadas B.; SUGIMOTO, Naoki

1C4-55 An allosteric ribozyme which is responsible for a point mutation in a substrate RNA (Grad. Sch. Pharm. Sci., Tohoku Univ.) ○YAMADA, Mitsuhiro; NUMAZAKI, Takumi; KONDO, Yoshinori; KATO, Yoshio; TANAKA, Yoshiyuki

Friday, March 17, AM

Chair: OHYA, Yuichi (9 : 00 ~ 9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(2C4-01, 2C4-02, 2C4-03, 2C4-05)

2C4-01* Antitumor Activity by Sequence-Specific HAT Inhibitors (Dep. Chem., Sch. Sci., Kyoto Univ.) ○YU, Zutao; TANIGUCHI, Junichi; WEI, Yulei; BANDO, Toshikazu; SUGIYAMA, Hiroshi

2C4-02* RBP-J Binding Inhibition Drives Human Neural Stem Cells Differentiation by Suppressing Hes-1 and Related Notch Signaling Pathway (Dep. Chem., Sch. Sci., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○WEI, Yulei; NAMASIVAYAM, Ganesh Pandian; BANDO, Toshikazu; SUGIYAMA, Hiroshi

2C4-03** Cardiomyocytes Induction By DNA Sequence-Specific Synthetic Molecules (Dep. Chem., Sch. Sci., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○TANIGUCHI, Junichi; NAMASIVAYAM, Ganesh Pandian;

BANDO, Toshikazu; SUGIYAMA, Hiroshi

2C4-05 In cell analysis of mRNA using molecular-beacon-modified nanoneedle (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○NAITOH, Miuzki; YAMAGISHI, Ayana; MOGAMI, George; SUZUKI, Makoto; FUKAZAWA, Kyoko; ISHIHARA, Kazuhiko; NAKAMURA, Chikashi

Chair: SUGIMOTO, Naoki (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(2C4-07, 2C4-10, 2C4-12)

2C4-07* Young Scholar Lectures of CSJ RNA Conformational Dynamics that Encodes New Dimensional Code in Central Dogma (FIBER, Konan Univ.) ○ENDO, Tamaki

2C4-10* Functional oligonucleotide for regulation of cellular activities (1) Oligonucleotide-based growth factor mimetics -Regulation of cellular functions and its application- (Grad. Sch. Eng., The Univ. of Tokyo) ○UEKI, Ryosuke; KANDA, Naoto; UCHIDA, Satoshi; CABRAL, Horacio; SANDO, Shinsuke

2C4-12 Functional oligonucleotide for regulation of cellular activities (2) Synthetic switch for input-dependent growth factor signaling (Grad. Sch. Eng., The Univ. of Tokyo) ○ATSUTA, Saki; UEKI, Ryosuke; SANDO, Shinsuke

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

* 11:00-11:10: interval for laptop PC connection.(2C4-14, 2C4-16, 2C4-17)

2C4-14* Application of DNA quadruplex hydrogels as biomaterial (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○TANAKA, Shizuma; FUKUSHIMA, Kazuki; WAKABAYASHI, Kenta; YUKAMI, Shinsuke; KUZUYA, Akinori; OHYA, Yuichi

2C4-16 Development of cell culture substrate utilizing DNA quadruplex hydrogels (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○YUKAMI, Shinsuke; TANAKA, Shizuma; FUKUSHIMA, Kazuki; WAKABAYASHI, Kenta; KUZUYA, Akinori; OHYA, Yuichi

2C4-17* Topologically interlocked DNA nanostructures inside a DNA origami frame (IAE, Kyoto Univ.) ○RAJENDRAN, Arivazhagan; PARK, Seojong; NAKATA, Eiji; KWON, Youngjoo; MORII, Takashi

Friday, March 17, PM

Chair: TAKENAKA, Shigeori (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(2C4-34, 2C4-35, 2C4-36, 2C4-37, 2C4-38)

2C4-34 The development of the mismatch binding ligand which has RNA cleavage activity (ISIR, Osaka Univ.) ○MIKI, Shota; YAMADA, Takeshi; NAKATANI, Kazuhiko

2C4-35 Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (34): Construction of a ligand screening system targeting human telomeric DNA (FIRST, Konan Univ.) ○IMAGAWA, Yoshiki; KOHATA, Kazuki; TERADA, Kosuke; MAEDA, Ryuichi; SUGIMOTO, Naoki; MIYOSHI, Daisuke

2C4-36* Simple screening method for ligands affecting CAG/CTG repeats stability (ISIR, Osaka Univ.) ○BINTI MOHD ZAIFUDDIN, Nursakinah; LI, Jinxing; DOHNO, Chikara; NAKATANI, Kazuhiko

2C4-37 Sandwich-typed assays for microRNA quantification using pyrene probes (KIT) ○WATARI, Yu; ARIYOSHI, Jumpei; SUGIHARA, Yuta; YAMAYOSHI, Asako; MURAKAMI, Akira; KOBORI, Akio

2C4-38* Sensitive RNA detection by using stable dye pairs (Grad. Sch. Eng., Nagoya Univ.) ○KASHIDA, Hiromu; MORIMOTO, Kazuhiro; ASANUMA, Hiroyuki

Chair: MIYOSHI, Daisuke (15 : 40~16 : 30)

* 15:30-15:40: interval for laptop PC connection.(2C4-41, 2C4-43, 2C4-45)

2C4-41* Cyclic naphthalene diimide derivatives connected with various linker chains containing benzene part and their interactions with tetraplex DNAs (Grad. Sch. Eng., KIT) MINEMATSU, Hiroki; WAKAHARA, Daiki; SAMESHIMA, Shino; SATO, Shinobu; FUJII, Satoshi; ○TAKENAKA, Shigeori

2C4-43* Cyclic naphthalene diimide derivatives connected with various alkyl linker chains and their interactions with tetraplex DNAs (Grad. Sch. Eng., KIT) SHINJO, Akina; TAKEUCHI, Ryusuke; ○SATO, Shinobu; FUJII, Satoshi; TAKENAKA, Shigeori

2C4-45 Controlled release of Cas9-sgRNA complex using G-quadruplex formation (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; BRI, AIST) ○TAKANO, Yuta; YAMAGISHI, Ayana; NISHIO, Maui; TSUKAKOSHI, Kaori; IKEBUKURO, Kazunori; KATO, Yoshio; NAKAMURA, Chikashi

Chair: MURAYAMA, Keiji (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(2C4-47, 2C4-48, 2C4-49, 2C4-51, 2C4-52)

2C4-47 Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (30) : Investigation of stabilizing mechanism of G-quadruplexes by cyclic naphthalene diimide (FIBER, Konan Univ.; Grad. Sch. Eng., KIT; Grad. Sch. Sys. Info., Kobe Univ.; FIRST, Konan Univ.) ○OHYAMA, Tatsuya; TATEISHI-KARIMATA, Hisae; TAKAHASHI, Shuntaro; SATO, Shinobu; TANAKA, Shigenori; TAKENAKA, Shigeori; SUGIMOTO, Naoki

2C4-48* Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (31):

The C-rich sequence in non-template strand determines the structure of G-rich template during transcription (FIBER, Konan Univ.) ○TENG, Ye; TATEISHI, Hisae; SUGIMOTO, Naoki

2C4-49* Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (32): Relationship of malignant alteration in cancer cells and the transcript mutations via DNA G-quadruplex formation (FIBER, Konan Univ.) ○TATEISHI-KARIMATA, Hisae; KAWAUCHI, Keiko; SUGIMOTO, Naoki

2C4-51 Identification of oncogene TLS as a G-quadruplex-binding protein (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○YAGI, Ryota; OYOSHI, Takanori

2C4-52 Synthesis and evaluation of ligand for selective induction of topologies in telomeric G-quadruplex (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○MA, Yue; SASAKI, Shogo; NAGASAWA, Kazuo

Saturday, March 18, AM

Chair: NAKATA, Eiji (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3C4-01, 3C4-02, 3C4-03, 3C4-04, 3C4-05)

3C4-01 Structural analysis of DNA containing A-tracts sequences using orientation-dependent FRET (Sch. Eng., Nagoya Univ.) ○KOKUBO, Yuuta; KAWAI, Hayato; KASHIDA, Hiromu; ASANUMA, Hiroyuki

3C4-02 Evaluation of multistrand formation by *a*TNA tethering artificial bases (Grad. Sch. Eng., Nagoya Univ.) ○HATTORI, Yuhei; TAZOE, Kaho; INOUE, Tadashi; KASHIDA, Hiromu; ASANUMA, Hiroyuki

3C4-03 Topology control of synthetic polymers using DNA helicity (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○YAMASAKI, Yuta; IKEDA, Yuta; AKAMATSU, Naohide; KUZUYA, Akinori; OHYA, Yuichi

3C4-04 Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (35) : Structure and stabilization of DNA under cationic comb-type copolymers as mimicked chromatin condition (FIRST, Konan Univ.) ○ZOUZUMI, Yuki; YAMAGUCHI, Nonoka; SHIMADA, Naohiko; SUGIMOTO, Naoki; MARUYAMA, Atsushi; MIYOSHI, Daisuke

3C4-05* Development of DNA logic gates to provide a small molecule output in response to microRNA inputs (Univ. of Pittsburgh) ○MORIIHIRO, Kunihiko; DEITERS, Alexander

Chair: MIYOSHI, Daisuke (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3C4-08, 3C4-09, 3C4-10, 3C4-12)

3C4-08 Effect of Torsional Constrained DNA Substrates on Cas9 Cleavage (WPI-iCeMS, Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) RÄZ, Michael; HIDAKA, Kumi; STURLA, Shana; SUGIYAMA, Hiroshi; ○ENDO, Masayuki

3C4-09 Construction of DNA nanostructure which induces chemical reaction by conformational change (Dep. Chem., Sch. Sci., Kyoto Univ.) ○KAMADA, Yuu; TAKEUCHI, Yosuke; TAKENAKA, Tomohiro; EMURA, Tomoko; SUGIYAMA, Hiroshi; ENDO, Masayuki

3C4-10* Activity of spatially organized enzyme on DNA scaffold (IAE, Kyoto Univ.) ○DINH, Huyen; NAKATA, Eiji; MORII, Takashi

3C4-12* Orthogonal modular adaptors for assembling multiple enzymes on DNA scaffold (IAE, Kyoto Univ.) ○NGUYEN, Thang; NAKATA, Eiji; SAIMURA, Masayuki; MORII, Takashi

Chair: HAMACHI, Itaru (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3C4-15)

3C4-15* CSJ Award for Creative Works A Bioorganic Chemistry Approach to Understanding Molecular Recognition in Protein-Nucleic Acid Complexes (IAE, Kyoto Univ.) ○MORII, Takashi

Asian International Symposium -Natural Products Chemistry, Chemical Biology/ Biofunctional Chemistry and Biotechnology-

Saturday, March 18, PM

(13 : 00~13 : 10)

3C4-25* Resent biosynthetic study of natural products. (Tokyo Tech.) ○Kudo, Fumitaka (13:00~13:10)

Chair: Kigoshi, Hideo (13 : 10~13 : 30)

3C4-26* Invited Lecture Reconstitution of biosynthetic machinery of fungal secondary metabolites. (Hokkaido Univ.) ○Minami, Atsushi (13:10~13:30)

Chair: Kudo, Fumitaka (13 : 30~14 : 00)

3C4-28* Keynote Lecture Biosynthesis of fungal indole alkaloids. (Academia Sinica) ○Hsiao-Ching, Lin (13:30~14:00)

Chair: Oguri, Hiroki (14 : 00~14 : 20)

3C4-31* Invited Lecture In vitro biosynthetic system for peptides with diverse modified backbones. (The Univ. of Tokyo) ○Goto, Yuki (14:00~14:20)

Chair: Arimoto, Hirokazu (14 : 30~14 : 50)

3C4-34[#] Invited Lecture Post-translational prenylation of tryptophan. (The Univ. of Tokyo) ○Okada, Masahiro (14:30~14:50)

Chair: Murata, Michio (14 : 50~15 : 20)

3C4-36[#] Keynote Lecture Marine-derived bioactive natural products and novel biomaterials. (De La Salle Univ.) ○Rafael Atillo, Espiritu (14:50~15:20)

Chair: Yoshino, Tomoko (15 : 20~15 : 40)

3C4-39[#] Invited Lecture Nanopore sensing with stable lipid bilayers integrated in microdevices. (Tokyo Univ. of Agri. and Tech.) ○Kawano, Ryuji (15:20~15:40)

Chair: Ijio, Kuniharu (15 : 40~16 : 00)

3C4-41[#] Invited Lecture Design of synthetic polymer nanoparticles that function as molecular chaperones. (Kyushu Univ.) ○Hoshino, Yu (15:40~16:00)

Chair: Atomi, Haruyuki (16 : 10~16 : 40)

3C4-44[#] Keynote Lecture Water dehydration mediated underwater adhesion. (Pohang Univ. of Sci. and Tech.) ○Dong Soo, Hwang (16:10~16:40)

Chair: Nagatsugi, Fumi (16 : 40~17 : 00)

3C4-47[#] Invited Lecture Hybrid fluorescence-Raman imaging to correlate biochemical information to protein expression. (The Univ. of Tokyo) ○Liang-da, Chiu (16:40~17:00)

Chair: Aono, Shigetoshi (17 : 00~17 : 30)

3C4-49[#] Keynote Lecture Smart nanoplatforams for bioanalytics and disease theranostics. (National Chiao-Tung University) ○Hsin-Yun, Hsu (17:00~17:30)

(17 : 30~17 : 40)

3C4-52[#] Closing remarks. (Univ. of Tsukuba) ○Kojima, Takahiko (17:30~17:40)

Biofunctional Chemistry ; Biotechnology

Sunday, March 19, AM

Chair: UEKI, Ryosuke (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4C4-01, 4C4-02, 4C4-03, 4C4-04, 4C4-05)

4C4-01 Improvement of binding ability of thrombin binding aptamer bearing un-natural nucleic acid base (Fac. Eng., Tokyo Univ. of Agri. and Technol.) IKEBUKURO, Kazunori; ○KONDA, Kaoru; IKUTA, Yuri; YAMAGISHI, Yasuko; TSUKAKOSHI, Kaori

4C4-02 Detection of soluble amyloid beta oligomer based on nucleic acid amplification by using the oligomer specific aptamer (Fac. Eng., Tokyo Univ. of Agri. and Technol.) TSUKAKOSHI, Kaori; ○HOSOI, Chihiro; IKEBUKURO, Kazunori

4C4-03 Improvement of sequence discrimination ability of molecular beacon probe using short chain oligomer (Sch. Sci. Tech., Gunma Univ.) ○KAWASAKI, Masakazu; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo

4C4-04 Development of anti-miRNA oligonucleotide composed of acyclic nucleic acid (Grad. Sch. Eng., Nagoya Univ.) ○KAMIMOTO, Hiroshi; DONOSHITA, Yuka; MURAYAMA, Keiji; KAMIYA, Yukiko; ASANUMA, Hiroyuki

4C4-05^{##} Enhanced strand invasion into double-stranded DNA by PNA-NLS conjugates (Sch. Sci., Nagoya Univ.) ○AIBA, Yuichiro; URBINA, Gerardo; WATANABE, Yoshihito

Chair: AIBA, Yuichiro (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4C4-08, 4C4-09, 4C4-11, 4C4-12, 4C4-13)

4C4-08 Synthesis of random penta-peptide modified Naphthyridines, and evaluation of binding to bulge DNA. (ISIR, Osaka Univ.) ○ITO, Hiroshi; AIKAWA, Haruo; NAKATANI, Kazuhiko

4C4-09^{##} Catalytic activity of an RNP receptor library with structural diversity (IAE, Kyoto Univ.) ○TAMURA, Tomoki; NAKANO, Shun; MORII, Takashi

4C4-11 High throughput screening for discovery of novel ribosome-binding molecules (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; PRESTO, JST) ○YAMASHITA, Shun; SATO, Ayato; ITAMI, Kenichiro; HAGIHARA, Shinya

4C4-12 Coding technology based on oligonucleotides (1) Effort toward development of DNA-encoded OBOC peptide library. (Grad. Sch. Eng., The Univ. of Tokyo) ○RYO, Yoshiba; FURUHATA, Takafumi; RYOSUKE, Ueki; JUMPEI, Morimoto; SHINSUKE, Sando

4C4-13[#] Coding technology based on oligonucleotides (2) Design of artificial nucleic acids for efficient decoding of DNA tags by quantum sequencer (Grad. Sch. Eng., The Univ. of Tokyo) ○FURUHATA, Takafumi; OHSHIRO,

Takahito; UEKI, Ryosuke; TANIGUCHI, Masateru; SANDO, Shinsuke

Chair: KAMIYA, Yukiko (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4C4-15, 4C4-17, 4C4-18, 4C4-19)

4C4-15^{*} Development of functional molecules targeting circulating microRNA (Hakubi Center, Kyoto Univ.; Dep. Chem., Sch. Sci., Kyoto Univ.) ○YAMAYOSHI, Asako; ARIYOSHI, Junpei; KONISHI, Ryo; KOBORI, Akio; ASHIHARA, Eishi; MURAKAMI, Akira; SUGIYAMA, Hiroshi

4C4-17 Development of cancer cell specific cellular uptake system utilizing MMP-9 cleavage activities (IMRAM, Tohoku Univ.) ○MATSUSHIMA, Moeka; SUGAI, Hiroka; NAKASE, Ikuhiko; ISHIBASHI, Satoru; YOKOTA, Takanori; SAKAMOTO, Seiji; ARAKI, Yasuyuki; WADA, Takehiko

4C4-18 3'-DNA modified hemi-gapmer type chimeric PRNA derivatives for the effective and catalytic oligonucleotide therapeutics (IMRAM, Tohoku Univ.; Neuro.,Tokyo Med. and Dental Univ.) ○INAGAKI, Masahito; UNABARA, Daisuke; UEMATSU, Ryohei; ARAKI, Yasuyuki; SAKAMOTO, Seiji; ISHIBASHI, Satoru; YOKOTA, Takanori; WADA, Takehiko

4C4-19^{##} Intracellular Delivery of Peptide Ribonucleic Acid by Oligoarigine Conjugation (IMRAM, Tohoku Univ.) ○SUGAI, Hiroka; SAKAMOTO, Seiji; ARAKI, Yasuyuki; WADA, Takehiko

Sunday, March 19, PM

Chair: IHARA, Toshihiro (13 : 40~14 : 40)

* 13:30-13:40: interval for laptop PC connection.(4C4-29, 4C4-30, 4C4-31, 4C4-32, 4C4-33)

4C4-29 Effect of DNA sequence alterations on structures and functions of complexes between heme and G-quadruplex DNAs. (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) KATAHIRA, Yuya; ○SHIBATA, Tomokazu; MATSUI, Toru; MORIHASHI, Kenji; WATANABE, Akari; NAKAO, Tomomi; YANAGISAWA, Sachiko; OGURA, Takashi; YAMAMOTO, Yasuhiko

4C4-30 Characterization of peroxidase activities and structures of complexes between some fluorinated hemes and G-quadruplex DNA [d(TTAGGG)]₄ (Sch. Sci. Eng., Univ. of Tsukuba) ○SHINOMIYA, Ryosuke; KATAHIRA, Yuya; SHIBATA, Tomokazu; OGURA, Takashi; YANAGISAWA, Sachiko; NAKAO, Tomomi; SUZUKI, Akihiro; YAMAMOTO, Yasuhiko

4C4-31 Structural characterization of a complex between heme and unimolecular G-quadruplex DNA (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) OCHI, Kentaro; ○YAMAMOTO, Yasuhiko; SHIBATA, Tomokazu; HAGIHARA, Masaki; HEMMI, Hikaru

4C4-32 Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (33) : Photocleavage by anionic zinc phthalocyanine targeting mRNA G-quadruplex (FIRST, Konan Univ.) ○MURATA, Kohei; SUGIMOTO, Wataru; TAKAGI, Kazuki; SUGIMOTO, Naoki; KAWAUCHI, Keiko; MIYOSHI, Daisuke

4C4-33^{*} Target gene detection by the peroxidase activity of the complex between hemin and split quadruplex DNA in the presence of lead ion (Fac. Sci., TUS) AKIBA, Ryo; ○TORIGOE, Hidetaka

Chair: YAMADA, Takeshi (14 : 50~15 : 50)

* 14:40-14:50: interval for laptop PC connection.(4C4-36, 4C4-37, 4C4-38, 4C4-39, 4C4-40)

4C4-36 Specific binding between metal ion and mismatched base pair involving 5-hydroxyuracil (Fac. Sci., TUS) ○ARAKAWA, Fumihiko; YAGUCHI, Ayami; ONO, Akira; TORIGOE, Hidetaka

4C4-37 Regulation of DNA duplex dissociation by radiolytic one-electron reduction of silver ion in mismatched base pair (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○MISU, Sotaro; KURIHARA, Ryosuke; TAMABE, Kazuhito

4C4-38 Control of PNA Invasion Activity by Metal Complex Conjugation (Grad. Sch. Sci., Nagoya Univ.) ○HIBINO, Masaki; AIBA, Yuichiro; WATANABE, Yoshihito

4C4-39[#] Metal-responsive Triplex-forming Oligonucleotides based on 5-Hydroxyuracil DNA Bases (Grad. Sch. Sci., The Univ. of Tokyo) ○NISHIYAMA, Kotaro; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiko

4C4-40^{*} Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (36) : Stability of nucleic acid structures in the presence of bulky cationic compounds (FIRST, Konan Univ.) MORIMOTO, Ryuta; NAKAI, Hiroki; AYUSAWA, Toshiya; TANINO, Yuichi; SUGIMOTO, Naoki; ○NAKANO, Shu-ichi

Chair: MIYOSHI, Daisuke (16 : 00~17 : 00)

* 15:50-16:00: interval for laptop PC connection.(4C4-43, 4C4-45, 4C4-46, 4C4-47)

4C4-43^{##} Enzymatic cascade reactions on the DNA scaffold (IAE, Kyoto Univ.) ○NAKATA, Eiji; DINH, Huyen; NGUYEN, Thang; SAIMURA, Masayuki; MORII, Takashi

4C4-45 Nanoliposomes scaffolded on DNA origami (IAE, Kyoto Univ.) ○KONISHI, Hiroaki; NAKATA, Eiji; NAKANO, Shun; MORII, Takashi

4C4-46 Morphological change of liposomes by alkyl-chain-modified oligonu-

cleotides (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○SHOHDA, Koh-ichiro; SUYAMA, Akira

4C4-47* Development of cryogenic fluorescence microscope for precise 3D optical imaging of a single biomolecule. (Sch. Sci., Tokyo Tech.) FURUBAYASHI, Taku; MATSUSHITA, Michio; ○FUJIYOSHI, Satoru

Room C5

Fourth Building, Section B J21

Organic Crystals

Thursday, March 16, PM

Chirality

Chair: AZUMAYA, Isao (13 : 30~14 : 10)

* 13:20-13:30: interval for laptop PC connection.(1C5-28, 1C5-29, 1C5-30, 1C5-31)

1C5-28 Fractional Crystallization by Diastereomer Methods of Cycloalkane-carboxamides Ketalized at the 3-Position with Chiral Hydrobenzoin (Grad. Sch. Eng., Chiba Univ.) AKAZOME, Motohiro; ○MAKI, Daisuke; YAMASHITA, Yohei; SAKURAI, Shiho; MATSUMOTO, Shoji

1C5-29 The control of chirality by dynamic crystallization of *N*-Succinopyridine (Grad. Sch. Eng., Chiba Univ.; Dept. Eng. Edu. Center, Chiba Inst. of Tech.) ○MATSUMOTO, Arisa; UEMURA, Naohiro; YOSHIDA, Yasushi; KASASHIMA, Yoshio; MINO, Takashi; SAKAMOTO, Masami

1C5-30 Asymmetric Synthesis of Thiohydantoin Derivatives Using Dynamic Crystallization (Grad. Sch. Eng., Chiba Univ.) ○UEMURA, Naohiro; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami

1C5-31 Asymmetric Control of Isoindolinone Derivatives Using Chiral Optical Vortex (Grad. Sch. Eng., Chiba Univ.) ○SHIMOBAYASHI, Haruna; UEMURA, Naohiro; ISHIKAWA, Hiroki; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami

Molecular Assembly

Chair: TAKAHASHI, Hiroki (14 : 20~15 : 10)

* 14:10-14:20: interval for laptop PC connection.(1C5-33, 1C5-34, 1C5-35, 1C5-36, 1C5-37)

1C5-33 Structural control of crystalline peptide coordination networks by methyl side chain (Grad. Sch. Eng., The Univ. of Tokyo) ○SAITO, Ami; SAWADA, Tomohisa; FUJITA, Makoto

1C5-34 Guest inclusion within fluorine functionalized nanochannels of a peptide coordination network (Grad. Sch. Eng., The Univ. of Tokyo) ○MIYAJI, Tatsuki; SAWADA, Tomohisa; FUJITA, Makoto

Polymorphism

1C5-35 The crystal structures of cyclic aromatic triamides with hydrogen-bonding sites (Grad. Sch. Eng., Chiba Univ.; Fac. Pharm. Sci., Toho Univ.) ○HIRAYAMA, Yuto; MASU, Hyuma; AZUMAYA, Isao

1C5-36 Reversible mutual transformation of pseudopolymorphic crystals of a silver(I) complex caused by vapor of solvents and its mechanisms (Fac. Pharm. Sci., Toho Univ.) ○FUKUSHIMA, Misaki; KIKKAWA, Shoko; HIKAWA, Hidemasa; AZUMAYA, Isao

1C5-37 Thermal Polymorphism of Multi-Block Macrocycles (Sch. Life Sci. Tech., Tokyo Tech.) ○NABEYA, Kota; MURAOKA, Takahiro; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki; KAJITANI, Takashi; FUKUSHIMA, Takanori; KINBARA, Kazushi

Crystallization

Chair: UEKUSA, Hidehiro (15 : 20~16 : 00)

* 15:10-15:20: interval for laptop PC connection.(1C5-39, 1C5-40, 1C5-42)

1C5-39 Co-Crystallization of Pharmaceutical Compounds Combined with High-Throughput Methods on a Microgram Scale (Grad. Sch. Eng., The Univ. of Tokyo; ACCEL, JST) ○TAMURA, Yukari; DOMOTO, Yuya; FUJITA, Makoto

1C5-40* Growth control of a single organic crystal by laser trapping (NCTU; Grad. Sch. Mat. Sci., NAIST) ○SUGIYAMA, Teruki; YUYAMA, Ken-ichi; MASUHARA, Hiroshi

1C5-42 Temperature effect on photopolymerization of diacetylene nanocrystal. (Grad. Sch. Sci., Eng., Ehime Univ.) ○UEMITSU, Takahiro; OIKAWA, Hidetoshi; ONODERA, Tsunenobu; ASAHI, Tsuyoshi

Optical Properties

Chair: HISAKI, Ichiro (16 : 10~17 : 00)

* 16:00-16:10: interval for laptop PC connection.(1C5-44, 1C5-45, 1C5-46, 1C5-47, 1C5-48)

1C5-44 Strong Enhancement of Luminescent Properties by Derivatization

from Hexahydroxantenediones to Hexahydroacridinediones (Grad. Sch. Educ., Hiroshima Univ.) ○SAKURAI, Yuki; AMIMOTO, Kiichi

1C5-45 Withdrawn

1C5-46 Optical properties of 2,5-diamino-3,6-dicyanopyrazine dyes having phenyl benzyl substituents (Grad. Sch. Env. and Info. Sci., Yokohama Natl. Univ.) ○HATANO, Sayumi; HIROSAWA, Risa; AKUNE, Yoko; MATSUMOTO, Shinya

1C5-47 Optical properties of several 2,5-diamino-3,6-dicyanopyrazine dyes having monosubstituted benzyl groups in vacuum deposited films (Sch. Eng. Sci., Yokohama Natl. Univ.) ○KISHI, Yuki; INOUE, Kazunari; AKUNE, Yoko; MATSUMOTO, Shinya

1C5-48 Polymorphism appearance of dipyrrolyldiketone difluoroboron complexes during the solvent-evaporative crystallization and their phase stability (Grad. Sch. Sci. Technol., Shinshu Univ.; Fac. Edu., Shinshu Univ.; Coll. Life Sci., Ritsumeikan Univ.; Grad. Sch. Eng., Osaka Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○OKA, Narumi; ITO, Fuyuki; BANDO, Yuya; HAKETA, Yohei; YAMAKADO, Ryohei; MAEDA, Hiromitsu; MIYANO, Tetsuya; TOHNAI, Norimitsu; ITO, Syoji; MIYASAKA, Hiroshi; OZEKI, Sumio

Friday, March 17, AM

Structure and Physical Properties

Chair: IKEDA, Hiroshi (9 : 20 ~10 : 20)

* 9:10-9:20: interval for laptop PC connection.(2C5-03, 2C5-05, 2C5-07)

2C5-03* Magnitude and origin of attraction of weak hydrogen bonds (AIST) ○TOSUZUKI, Seiji; UCHIMARU, Tadafumi

2C5-05* Dithienylhexatrienes: Molecular Arrangements and Fluorescence Emission Properties in the Crystal and Thin Film States (AIST; Grad. Sch. Eng., Osaka Univ.) ○SONODA, Yoriko; ZHOU, Ying; TOHNAI, Norimitsu

2C5-07* Figuration of hydrogen-bonded porous organic frameworks based on triphenylene and its aza-derivatives (Grad. Sch. Eng., Osaka Univ.) ○HISAKI, Ichiro; IKENAKA, Nobuaki; TOHNAI, Norimitsu

Chair: HARANO, Koji (10 : 30~11 : 30)

* 10:20-10:30: interval for laptop PC connection.(2C5-10, 2C5-12, 2C5-14)

2C5-10** Vapor Deposition of Molecular Porous Crystal Featuring C-H ··· N Bonding (Fac. Eng., The Univ. of Tokyo) ○YAMAGISHI, Hiroshi; AIDA, Takuzo

2C5-12** Molecular Design of Biradical Molecules Containing Localized Spin Center and Their Magnetic Interaction through Non-conjugated Framework (Fac. Sci. Tech., Keio Univ.) ○TAKAHASHI, Yusuke; NARUMI, Yusuke; MIURA, Youhei; YOSHIOKA, Naoki

2C5-14** Chiral Crystallization of Achiral Benzophenone Derivatives and Its Chirality Generation During Crystal Phase Transition (Fac. Sci., TUS) ○MATSUMOTO, Arimasa; KINO, Yoshimi; YOSHIOKA, Tokio; TSUCHIYA, Sumeru; SOAI, Kenso

Asian International Symposium -Organic Crystals-

Friday, March 17, PM

Chair: Katagiri, Hiroshi (13 : 30~14 : 40)

2C5-28[#] Keynote Lecture Quinoid-Type Optoelectronic Materials (Chinese Academy of Science) ○Xiaozhang, Zhu (13:30~14:00)

2C5-31[#] Invited Lecture Current-Induced Mutual Structural & Conductivity Change along Orthogonal Crystal Axes in an Ion-Radical Salt of Cyclophane-Type Donor (Nagoya Univ.) ○M. Matsushita, Michio (14:00~14:20)

2C5-33[#] Invited Lecture Chiral Organic Salt-Based Supramolecular Hosts for Enantioselective Inclusion of Neutral Guest Compounds (Saitama Univ.) ○Kodama, Koichi (14:20~14:40)

Chair: Kobatake, Seiya (14 : 50~16 : 00)

2C5-36[#] Keynote Lecture Mechanically Responsive Dynamic Molecular Crystals (Indian Institute of Science Education and Research) ○Chilla Malla, Reddy (14:50~15:20)

2C5-39[#] Invited Lecture Development of an Organic Crystalline Material with Desired Functionality: Screening Approach (Hokkaido Univ.) ○Seki, Tomohiro (15:20~15:40)

2C5-41[#] Invited Lecture Photomechanical Performance of Diarylethene Single Crystals (Rikkyo Univ.) ○Morimoto, Masakazu (15:40~16:00)

Chair: Tohnai, Norimitsu (16 : 10~17 : 10)

2C5-44[#] Invited Lecture Porous Crystals as a Template of Network Polymers (Hokkaido Univ.) ○Kokado, Kenta (16:10~16:30)

2C5-46[#] Invited Lecture Auto-Oscillatory Flipping Motion of Azobenzene Containing Organic Co-crystal under Continuous Light Irradiation (Hokkaido Univ.) ○Kageyama, Yoshiyuki (16:30~16:50)

2C5-48[#] Invited Lecture Dynamics of Evaporative Crystallization Probed by Fluorescence Color Changes (Shinshu Univ.) ○Ito, Fuyuki (16:50~17:10)

Organic Crystals

Saturday, March 18, PM

Structure and Physical Properties

Chair: MATSUSHITA, Michio-m. (14 : 00~14 : 50)

- * 13:50-14:00: interval for laptop PC connection.(3C5-31, 3C5-33, 3C5-34, 3C5-35)
- 3C5-31*** Synthesis, structure, and FET characteristics of asymmetric mono-substituted thienoacenes derived from anthra[2,3-b]thieno[2,3-d]thiophene (Grad. Sch. Sci., Eng., Yamagata Univ.) ○OGAWA, Yuta; MAMADA, Masashi; KUMAKI, Daisuke; TOKITO, Shizuo; KATAGIRI, Hiroshi
- 3C5-33** Reversible Single-Crystal-to-Single-Crystal Phase Transition of Chiral Salicylidenephenylethylamine (Research Org. for Nano & Life Innovation, Waseda Univ.) TAKANABE, Akifumi; UEKUSA, Hidehiro; SHIRO, Motoo; ○KOSHIMA, Hideko; ASAH, Toru
- 3C5-34** Physical Properties of a Single-Component Molecular Crystal with Honeycomb Structure (Dep. Chem., Sch. Sci., Kyoto Univ.) ○KIMURA, Yojiro; HAYASHI, Mikihiro; MAESATO, Mitsuhiro; KITAGAWA, Hiroshi
- 3C5-35** Structural Phase Transitions in a [2-Pyrrolidone]-[Chloranilic Acid] Molecular Complex with Hydrogen-Bond Strap (Fac. Sci., Kyoto Univ.) ○DONOSHITA, Masaki; HAYASHI, Mikihiro; IKEDA, Ryuichi; KAWAGUCHI, Shogo; SUGIMOTO, Kunihisa; KITAGAWA, Hiroshi

Chair: TAMURA, Rui (15 : 00~15 : 40)

- * 14:50-15:00: interval for laptop PC connection.(3C5-37, 3C5-38, 3C5-39, 3C5-40)
- 3C5-37** Effect of chemical modification on magnetic property of benzotriazinyl fused by localized nitroxide (Fac. Sci. Tech., Keio Univ.) ○MATSUHASHI, Ryo; TAKAHASHI, Yusuke; MIURA, Youhei; YOSHIOKA, Naoki
- 3C5-38** Synthesis of verdazyl biradical derivatives linked by phenylethynyl unit and their magneto-structural correlation (Fac. Sci. Tech., Keio Univ.) ○MIYASHIRO, Shogo; MIURA, Youhei; YOSHIOKA, Naoki
- 3C5-39** The effect of ligand structures on self-organization behavior of Schiff base complexes (Fac. Sci. Tech., Keio Univ.) ○KOBAYASHI, Yukiko; NISHIKAWA, Daisuke; MIURA, Youhei; YOSHIOKA, Naoki
- 3C5-40** Thermosensitive effect in 5,12-diacetyl-5,12-dihydroquinoxalino[2,3-b]quinoxaline derivatives (Fac. Sci. Tech., Keio Univ.) ○WATANABE, Yoshihiro; MIURA, Youhei; YOSHIOKA, Naoki

Luminescence

Chair: YOSHIOKA, Naoki (15 : 50~16 : 30)

- * 15:40-15:50: interval for laptop PC connection.(3C5-42, 3C5-44)
- 3C5-42*** Femtosecond transient absorption microspectroscopic study of 6-cyano-2-(2'-hydroxyphenyl)imidazo[1,2-a]pyridine in crystalline phase (Grad. Sch. Sci., Eng., Ehime Univ.) ○ISHIBASHI, Yukihide; MURAKAMI, Mako; MUTAI, Toshiki; ARAKI, Koji
- 3C5-44*** Efficient Charge-Transfer Emission in the Mixed Crystal Composed of Two Different Diaroylmethanato-boron Difluorides (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) NISHIDA, Shota; SAKAI, Atsushi; MATSUI, Yasunori; OHTA, Eisuke; OGAKI, Takuya; ○IKEDA, Hiroshi

Room C6

Fourth Building, Section B 22

Natural Products Chemistry

Thursday, March 16, AM

Alkaloids

Chair: SHIMOKAWA, Jun (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1C6-08, 1C6-09, 1C6-10, 1C6-11, 1C6-12, 1C6-13)
- 1C6-08** Total Synthesis of (±)-Fasicularin (Fac. Sci. Tech., Keio Univ.) ○KOBAYASHI, Akihiro; MINAMIKAWA, Ryo; YAMAMOTO, Shio; SATO, Takaaki; CHIDA, Noritaka
- 1C6-09** Enantioselective Total Synthesis of Fasicularin (Fac. Sci. Tech., Keio Univ.) ○YAMAMOTO, Shio; KOBAYASHI, Akihiro; MINAMIKAWA, Ryo; SATO, Takaaki; CHIDA, Noritaka
- 1C6-10** Synthetic study of secologanin toward divergent syntheses of glycosylated monoterpenoid indole alkaloids. (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○RAKUMITSU, Kenta; ISHIKAWA, Hayato
- 1C6-11** Total Synthesis of Manzacidins A and C Based on Diastereoselective Hydroxymethylation of Chiral Nitroalkanes (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○ARAKI, Yuya; TANIOKA, Mizuho; MIYOSHI,

Natsumi; KUDOH, Takayuki; SAKAKURA, Akira

- 1C6-12** Novel *N*-oxypyrrole derivatives from *Streptomyces werraensis*; Isolation, synthesis and plant growth inhibitory Activity (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○YOSHIMURA, Haruna; ISHIDA, Takashi; TANI, Tokio; SAWA, Shinichiro; HATANNO, Masaki; IGARASHI, Masayuki; ISHIKAWA, Hayato
- 1C6-13** Synthetic studies of gracilamine based on diastereoselective oxidative phenol coupling and aza-Michael addition (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○YAMAMOTO, Yoshiharu; ODAGI, Minami; NAGASAWA, Kazuo

Chair: KIGOSHI, Hideo (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1C6-15, 1C6-17, 1C6-19)
- 1C6-15**** A Unified Total Synthesis of Madangamine Alkaloids: Stereodivergent Approach to Skipped Dienes (Fac. Sci. Tech., Keio Univ.) ○SUTO, Takahiro; YANAGITA, Yuta; NAGASHIMA, Yoshiyuki; TAKIKAWA, Shinsaku; MATSUO, Naoya; KUROSU, Yasuhiro; SATO, Takaaki; CHIDA, Noritaka
- 1C6-17**** Enantioselective Total Synthesis of (+)-Hinckdentine A (Grad. Sch. Pharm. Sci., Nagoya Univ.; Grad. Sch. Pharm., The Univ. of Tokyo; Grad. Fac. Life Sci., Hokkaido Univ.) ○DOUKI, Kazuya; ONO, Hiroyuki; TANIGUCHI, Tohru; SHIMOKAWA, Jun; FUKUYAMA, Tohru; KITAMURA, Masato
- 1C6-19**** Towards the total synthesis of Synoxazolidinone C (School of Chemistry, The University of Nottingham) ○VILLA, Maxime; MOODY, Christopher

Thursday, March 16, PM

Chair: NAKATA, Masaya (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1C6-28, 1C6-31, 1C6-32, 1C6-33)
- 1C6-28** Young Scholar Lectures of CSJ Nucleophilic Addition to *N*-Methoxyamides: Development and Application to Total Synthesis of Natural Products (Fac. Sci. Tech., Keio Univ.) ○SATO, Takaaki
- 1C6-31** Synthesis and evaluation of saxitoxin derivatives by Mukaiyama aldol condensation reaction (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○OKI, Mana; WANG, Chao; HARADA, Daisuke; TSUKAMOTO, Tadaaki; KONOKI, Keiichi; YAMASHITA, Mari; NAGASAWA, Kazuo
- 1C6-32** Synthetic studies on Zetekitoxin AB (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HARADA, Daisuke; AKIMOTO, Takafumi; WANG, Chao; OKI, Mana; YAMASHITA, Mari; NAGASAWA, Kazuo
- 1C6-33** Synthetic study of aplaminal (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○TANIGUCHI, Ayaka; AKEMOTO, Kei; OHYOSHI, Takayuki; KIGOSHI, Hideo

Chair: OHYOSHI, Takayuki (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1C6-35, 1C6-36, 1C6-37, 1C6-38, 1C6-39, 1C6-40)
- 1C6-35** Total Synthesis and Structural Revision of (±)-Fasmerianamine A (Grad. Sch. Sci. Tech., Keio Univ.) ○ODAMURA, Jei; YOKOO, Ryosuke; MASUMURA, Kensuke; OKAWA, Hiroki; SAIKAWA, Yoko; NAKATA, Masaya
- 1C6-36** Total synthesis of saxorumamide (Fac. Sci. Tech., Keio Univ.) ○YORITATE, Makoto; YOKOYAMA, Takashi; TAKAHASHI, Yoshitomo; TAJIMA, Hayato; OGIHARA, Chisato; SATO, Takaaki; CHIDA, Noritaka
- 1C6-37** Studies on Total Synthesis of Tetrodotoxin (Grad. Sch. Sci., Osaka City Univ.) ○TAKEDA, Rina; HATTORI, Hiroshi; ARAKI, Yuusuke; KIKUCHI, Seihou; YOSHIYAMA, Haruka; NISHIKAWA, Keisuke; MORIMOTO, Yoshiki
- 1C6-38** Synthesis of multi-functionalized nitrones through nucleophilic addition to amides (Fac. Sci. Tech., Keio Univ.) ○MATSUZAKA, Koki; KOBAYASHI, Shoichiro; MATSUMOTO, Tsutomu; SATO, Takaaki; CHIDA, Noritaka
- 1C6-39** Studies on Total Synthesis of Histronicotoxins (Grad. Sch. Sci., Osaka City Univ.) ○MATSUMURA, Kunihiko; KOYAMA, Tomoyuki; NISHIKAWA, Keisuke; MORIMOTO, Yoshiki
- 1C6-40** Total Synthesis of (-)-Zephyranthine (Fac. Sci. Tech., Keio Univ.) ○ISHII, Koki; ISHIBASHI, Mizuki; SEKI, Yuna; SATO, Takaaki; CHIDA, Noritaka

Chair: NISHIKAWA, Keisuke (15 : 50~16 : 20)

- * 15:40-15:50: interval for laptop PC connection.(1C6-42, 1C6-43, 1C6-44)
- 1C6-42** Synthesis of Alkaloidal Scaffolds via Zinc(II)-mediated Activation of an Alkyne (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SADAIWA, Yorimoto; TSUBOUCHI, Akira; ORUGI, Hiroki
- 1C6-43** Total Synthesis of (-)-Stenine (Grad. Sch. Sci. Tech., Keio Univ.) ○KOTATSU, Masayuki; NAKAYAMA, Yasuaki; MAEDA, Yuichiro; SATO, Takaaki; CHIDA, Noritaka
- 1C6-44** Assembly of alkaloidal skeletons via dimerizations of dihydropyridines (Fac. Sci., Hokkaido Univ.) ○WATANABE, Ryo; FUJIKAWA, Soushi; OIKAWA, Hideaki; OGURI, Hiroki

Amino Acid, Peptide

Chair: SATAKE, Masayuki (16 : 30~17 : 00)

- * 16:20-16:30: interval for laptop PC connection.(1C6-46, 1C6-47, 1C6-48)
- 1C6-46** Biseokeaniamides A, B and C, thiazole-containing lipopeptides from a marine cyanobacterium collected in Okinawa. (Fac. Sci. Tech., Keio Univ.; Fac. Pharm., Kitasato Univ.; Fac. Edu., Univ. of Ryukyus) ○IWASAKI, Arihiro; TADENUMA, Takato; OHSHIRO, Taichi; OZAKI, Kaori; SUMIMOTO, Shinpei; TERUYA, Toshiaki; TOMODA, Hiroshi; SUENAGA, Kiyotake
- 1C6-47** Isolation and determination of the structure of new linear depsipeptides from the marine cyanobacterium collected at Okinawa (Keio Univ.) ○KANAMORI, Yuki; SUMIMOTO, Shinpei; IWASAKI, Arihiro; SUENAGA, Kiyotake
- 1C6-48** Cyclic peptide library from marine cyanobacteria collected in Ishigaki Island (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○KAWATA, Yuki; INUZUKA, Toshiyasu; WATABE, Taeko; UEMURA, Daisuke

Chair: FUSE, Shinichiro (17 : 10~18 : 00)

- * 17:00-17:10: interval for laptop PC connection.(1C6-50, 1C6-51, 1C6-52, 1C6-53)
- 1C6-50** Synthetic Study of (-)-Kaitocephalin via Overman rearrangement (Fac. Sci. Tech., Keio Univ.) ○SUGAI, Tomoya; OKUYAMA, Yuya; HISADA, Syoko; SHIN, Jaehyun; USUI, Sunme; SATO, Takaaki; CHIDA, Noritaka
- 1C6-51[#]** Comparative study of fully synthetic self-adjuvanting cancer vaccine candidates containing tandem repeats of B cell epitope from HER2 (Grad. Sch. Sci., Osaka Univ.) ○FENG, Qi; KABAYAMA, Kazuya; MANABE, Yoshiyuki; KAMETANI, Yoshie; FUKASE, Koichi
- 1C6-52[#]** Synthetic studies on marine natural polyamine protoaculeine-B (International Coll. Arts Sci., Yokohama City Univ.) ○SHIOZAKI, Hiroki; ISHIKAWA, Yuichi; OIKAWA, Masato
- 1C6-53^{#*}** High-yield synthesis of selenoglutathione by LPPS and the study of the redox reactions (Sch. Sci., Tokai Univ.) ○SHIMODAIRA, Shingo; IWAOKA, Michio

Friday, March 17, AM

Fatty Acid Related Compounds and Polyphenols

Chair: TONOI, Takayuki (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2C6-01, 2C6-02, 2C6-03, 2C6-05)
- 2C6-01** Synthetic study of steganacins (Fac. Textile Sci. Technol., Shinshu Univ.) ○YUBUNE, Toshihide; MOCHIZUKI, Takehito; SONE, Yoshitomo; OHTA, Ryotaro; NISHII, Yoshinori
- 2C6-02** Asymmetric total synthesis of dibenzyl lignan lactones (Grad. Sch. Sci. Technol., Shinshu Univ.) ○MOCHIDUKI, Takehito; SONE, Yoshitomo; KIMURA, Yumi; NISHII, Yoshinori
- 2C6-03^{#*}** Enantioselective total synthesis of purple membrane lipid PGP-Me toward elucidation of protein-lipid interactions (Grad. Sch. Sci., Osaka Univ.) ○YAMAGAMI, Masaki; JIN, Cui; TSUCHIKAWA, Hiroshi; UMEGAWA, Yuichi; HANASHIMA, Shinya; MURATA, Michio
- 2C6-05^{#*}** Solid-state NMR study for the molecular orientation of amphotericin B in membrane (Grad. Sch. Sci., Osaka Univ.) ○YAMAMOTO, Tomoya; UMEGAWA, Yuichi; YAMAGAMI, Masaki; HANASHIMA, Shinya; TSUCHIKAWA, Hiroshi; MATSUMORI, Nobuaki; MURATA, Michio

Chair: NISHII, Yoshinori (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2C6-08, 2C6-09, 2C6-10, 2C6-11, 2C6-13)
- 2C6-08** Preparation of New Aromatic Acid Anhydrides or Aromatic Acid Halides Bearing Trifluoromethyl Substituted Groups and Their Application to the Rapid Esterification and Lactonization (Fac. Sci., TUS) SHIINA, Isamu; ○TONOI, Takayuki
- 2C6-09** Improved Asymmetric Total Synthesis of Naturally Occurring (3S,16E,20E,23S)-Eushearilide (Fac. Sci., TUS) TONOI, Takayuki; ○INOHANA, Takehiko; SATO, Teruyuki; YOSHIDA, Tomoki; SHIINA, Isamu
- 2C6-10** Asymmetric Total Synthesis of PM181110 by the Asymmetric Aldol Reaction and the MNBA-mediated Dehydration Condensations (Fac. Sci., TUS) SHIINA, Isamu; INOHANA, Takehiko; ○SATO, Teruyuki; KAWAHARA, Ryo; TONOI, Takayuki
- 2C6-11^{#*}** Stereoselective construction of cisoidal bispiroacetal framework found in marine toxins (Sch. Sci., Osaka Univ.) ○YASUKAWA, Yoshifumi; TSUCHIKAWA, Hiroshi; MURATA, Michio
- 2C6-13** Synthetic study on meshimakobunol A (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○ICHIMURA, Fumitaka; MITSUGI, Keisuke; OHYOSHI, Takayuki; KIGOSHI, Hideo

Chair: OHYOSHI, Takayuki (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(2C6-15, 2C6-16, 2C6-17, 2C6-18, 2C6-19)
- 2C6-15** Synthesis of the Precursor of 5-Epi-6-epipseudomajucinone Possessing

the Trifused Carbocyclic System Using the Intramolecular Michael Addition Reaction (Fac. Sci., TUS) MURATA, Takatsugu; UOSAKI, Kosuke; ○YONEKURA, Keita; ITOH, Keiichi; SHIINA, Isamu

- 2C6-16** Construction of Bicyclo[4.3.0]nonanone Skeleton Included in 6-Epipseudomajucinone (6-EPM) Using Reductive Cyclization Reaction and Ring Closing Metathesis (Fac. Sci., TUS) SHIINA, Isamu; ○UOSAKI, Kosuke; MURATA, Takatsugu
- 2C6-17** Synthetic Studies of Botcinin D Derivatives Using Intramolecular Reformatsky Reaction (Fac. Sci., TUS) SHIINA, Isamu; ○MATSUMOTO, Yuhei; YOSHINAGA, Yutaka; TONOI, Takayuki
- 2C6-18** Synthesis and biological evaluation of AMCA conjugated neoptolid analogues (Grad. Sch. Life Sci., Tohoku Univ.) ○YANAGI, Shota; SASAKI, Makoto; FUWA, Haruhiko
- 2C6-19** Efficient synthetic route for a spiroimine of spiroide C for stereostructural assignment of lactone moiety (Grad. Sch. Sci., Osaka Univ.) ○MINAMINO, Kou; TSUCHIKAWA, Hiroshi; HAYASHI, Sho; MURATA, Michio

Friday, March 17, PM

Chair: FUWA, Haruhiko (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(2C6-34, 2C6-35, 2C6-36, 2C6-37, 2C6-38, 2C6-39)
- 2C6-34** Asymmetric Total Synthesis of 5-DemethylAMF-26 by the Computer-assisted Predictive Stereoselective Intramolecular Diels-Alder (CAPS-IMDA) Reaction (Fac. Sci., TUS) SHIINA, Isamu; ○TASAKI, Yasutaka; SUZUKI, Kyouhei; TANAKA, Anna
- 2C6-35** A Synthesis of AMF-26 Derivatives Including Tetralin Frame by the Shapiro Reaction (Fac. Sci., TUS) SHIINA, Isamu; TASAKI, Yasutaka; ○SUZUKI, Kyouhei; WATANABE, Chihiro
- 2C6-36** Rationalization of the Stereo- and Chemoselective Synthesis of the Steroid Frameworks by the Intermolecular Diels-Alder Reaction (Fac. Sci., TUS) ○MURATA, Takatsugu; SHIINA, Isamu
- 2C6-37** Asymmetric total syntheses of 3-acyl-5,6-dihydro-2H-pyrone natural products utilizing catalytic asymmetric Mukaiyama aldol reaction (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○TSUTSUMI, Takeshi; FUJIWARA, Tetsuya; NAKATA, Kohei; NAKATSUJI, Hidefumi; TANABE, Yoo
- 2C6-38** Synthetic study of dysiberbaine analogs featuring stereospecific ring contraction (Fac. Eng., OIT) ○YONEYAMA, Ryo; MASUYAMA, Araki; KOBAYASHI, Shoji
- 2C6-39** Synthetic Study of 6-Chlorotetrahydrofuran Acetogenin toward the Structural Elucidation (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KATSUBE, Tomoya; TAKAMURA, Hiroyoshi; KADOTA, Isao

Chair: ANDO, Yoshio (15 : 40~16 : 10)

- * 15:30-15:40: interval for laptop PC connection.(2C6-41, 2C6-43, 2C6-44, 2C6-45, 2C6-46)
- 2C6-41^{*}** Structure-activity relationship study of aplyronine A by hybridization of natural products (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○TAKANO, Atsuhiko; NAMIKI, Mayu; MIYAZAKI, Yuto; OGURA, Tomotaka; HAYAKAWA, Ichiro; OHYOSHI, Takayuki; KIGOSHI, Hideo
- 2C6-43** Synthetic study of scytophycin C (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○NAMIKI, Mayu; MIYAZAKI, Yuto; OHYOSHI, Takayuki; KIGOSHI, Hideo
- 2C6-44** Short-step total synthesis of hericenes featuring [1,3]-geranyl rearrangement, and their cytoprotective activity (Fac. Eng., OIT; Dep. Nutr., Koshien Univ.) ○KOBAYASHI, Shoji; YASUMOTO, Takeshi; MASUYAMA, Araki; NAGAI, Kaoru
- 2C6-45** Isolation of Hoshinolactam, an Antitrypanosomal Polyketide-Peptide Hybrid from a Marine Cyanobacterium (Fac. Sci. Tech., Keio Univ.) ○OGAWA, Hidetoshi; IWASAKI, Arihiro; SUMIMOTO, Shinpei; HOKARI, Rei; ISHIYAMA, Aki; IWATSUKI, Masato; OTOGURO, Kazuhiko; OMURA, Satoshi; SUENAGA, Kiyotake
- 2C6-46** Total synthesis of Hoshinolactam, an Antitrypanosomal Polyketide-Peptide Hybrid from a Marine Cyanobacterium (Fac. Sci. Tech., Keio Univ.) ○OGAWA, Hidetoshi; IWASAKI, Arihiro; SUMIMOTO, Shinpei; HOKARI, Rei; ISHIYAMA, Aki; IWATSUKI, Masato; OTOGURO, Kazuhiko; OMURA, Satoshi; SUENAGA, Kiyotake

Terpenes, Steroids

Chair: SUENAGA, Kiyotake (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(2C6-48, 2C6-49, 2C6-50, 2C6-51, 2C6-52)
- 2C6-48** Search for bone metabolism regulatory properties in Okinawan marine organism compounds (Fac. Edu., Univ. of Ryukyus) ○OZAKI, Kaori; YAMANO, Aki; ISHII, Takahiro; TERUYA, Toshiaki
- 2C6-49** Structural Prediction of Sarcophytonolide J and Its Structural Elucidation by Total Synthesis (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○OTSU, Taichi; TAKAMURA, Hiroyoshi; KADOTA, Isao
- 2C6-50** Total Synthesis and Structural Revision of Clavilactone D (Fac. Sci. Tech., Keio Univ.) ○MORI, Kento; OGURA, Akihiro; TAKAO, Ken-ichi
- 2C6-51** Total Synthesis and Structural Revision of a Marine Polyether Aplysiol B (Grad. Sch. Sci., Osaka City Univ.) ○NISHIKIBE, Kento; TOKITA, Moe; TAKI, Naoto; NISHIKAWA, Keisuke; MORIMOTO,

Yoshiki

- 2C6-52** Cyclization Reaction of Polyepoxides in Water and Its Application to Natural Product Synthesis (Grad. Sch. Sci., Osaka City Univ.)
○HASHIMOTO, Subaru; HOSHINO, Akihiro; TAKEUCHI, Eriko; NISHIKAWA, Keisuke; MORIMOTO, Yoshiki

Saturday, March 18, AM

Fatty Acid Related Compounds and Polyphenols

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

- * 8:50-9:00: interval for laptop PC connection.(3C6-01, 3C6-02, 3C6-03, 3C6-04, 3C6-05, 3C6-06)
- 3C6-01** Synthetic study on naphthocyclinones (1) : Syntheses of pyranonaphthalene units (Sch. Sci., Tokyo Tech.) ○NAKAZAWA, Yusuke; FUKAZAWA, Takumi; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke
- 3C6-02** Synthetic study on naphthocyclinones: dimerization via Michael addition (Sch. Sci., Tokyo Tech.) ○FUKAZAWA, Takumi; NAKAZAWA, Yusuke; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke
- 3C6-03** Synthetic Study of the C' D' E' Ring of Maitotoxin (Fac. Sci., Kyushu Univ.) ○YAMAMOTO, Hiroki; TORIKAI, Kohei; EBINE, Makoto; OISHI, Tohru
- 3C6-04** Synthetic Study of the HIJK Ring of Brevisulcalen-F (Fac. Sci., Kyushu Univ.) ○OSATO, Naoya; TORIKAI, Kohei; EBINE, Makoto; OISHI, Tohru
- 3C6-05** Synthetic Studies on Enigmazole A (Grad. Sch. Life Sci., Tohoku Univ.) ○SAKURAI, Keisuke; SASAKI, Makoto; FUWA, Haruhiko
- 3C6-06** Synthetic Study on Tomuruline (Fac. Sci. Tech., Keio Univ.) ○FUJIMURA, Haruka; KUDO, Chihiro; SAME, Kyouhei; OHNO, Osamu; IWASAKI, Arihiro; SUENAGA, Kiyotake

Chair: EBINE, Makoto (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3C6-08, 3C6-09, 3C6-10, 3C6-11, 3C6-12, 3C6-13)
- 3C6-08** Total Synthesis of Aesculitannin C (Sch. Sci., Tokyo Tech.) ○SEKO, Yusuke; NOGUCHI, Yuka; OHMORI, Ken; SUZUKI, Keisuke
- 3C6-09** Synthetic study on doubly-linked oligoflavans (Sch. Sci., Tokyo Tech.) ○NOGUCHI, Yuka; OHMORI, Ken; SUZUKI, Keisuke
- 3C6-10** S_NAr Reaction/Claisen Rearrangement Sequence for Efficient C-Prenylation of Xanthenes (Sch. Pharm., TUPLS) ○FURUKAWA, Chisato; MOCHIZUKI, Miho; TAKAHASHI, Kanae; FUJIMOTO, Yuuki; YANAI, Hikaru; MATSUMOTO, Takashi
- 3C6-11** Synthesis of Naturally Occurring Xanthenes Possessing Higher Isoprenoid Side Chain (Sch. Pharm., TUPLS) ○TAKAHASHI, Kanae; FUJIMOTO, Yuuki; YANAI, Hikaru; MATSUMOTO, Takashi
- 3C6-12** Synthetic and Structural Studies on Iriomoteolide-2a (Grad. Sch. Life Sci., Tohoku Univ.) ○SAKAMOTO, Keita; SASAKI, Makoto; FUWA, Haruhiko
- 3C6-13** Design, synthesis and biological activity of aplyronine A analogs directed to structural simplification (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○TAKAHASHI, Momoko; FUTAKI, Kentaro; TANABE, Kenta; KITA, Masaki; KIGOSHI, Hideo

Chair: TAKIKAWA, Hiroshi (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3C6-15, 3C6-16, 3C6-17, 3C6-18, 3C6-19, 3C6-20)
- 3C6-15** Synthetic Studies on Portimine (Grad. Sch. Life Sci., Tohoku Univ.) ○MIYOSHI, Taro; SAITO, Maki; IWASAKI, Kotaro; SASAKI, Makoto
- 3C6-16** Synthetic Studies on Portimine (Grad. Sch. Life Sci., Tohoku Univ.) ○SAITO, Maki; MIYOSHI, Taro; IWASAKI, Kotaro; SASAKI, Makoto
- 3C6-17** Synthetic studies of acetogenins with Au(I) catalyst (Grad. Sch. Sci. Eng. For Edu., Univ. of Toyama) YOKOYAMA, Hajime; ○MATSUO, Megumi; MIYAZAWA, Masahiro
- 3C6-18** Synthetic Studies of JK-ring system of Yessotoxin using Pd(II) catalyst (Grad. Sch. Sci. Eng. For Edu., Univ. of Toyama) YOKOYAMA, Hajime; ○NISHIDA, Kazuki; MIYAZAWA, Masahiro
- 3C6-19** Synthesis and Biological Activity of Biselyngbyasides (Fac. Sci. Tech., Keio Univ.) ○SATO, Miho; SATO, Eisuke; TANABE, Yurika; NAKAJIMA, Naoya; OHKUBO, Akihumi; SUENAGA, Kiyotake
- 3C6-20** Synthetic Study of 17(R),18(S)-EpETE (Sch. Biosci. Biotech., Tokyo Tech.; Sch. Biosci. Biotech., Tokyo Tech.) ○SHINOHARA, Riku; NANBA, Yutaro; KOBAYASHI, Yuichi

Saturday, March 18, PM

Chair: MIYAZAWA, Masahiro (13 : 30 ~ 14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3C6-28, 3C6-29, 3C6-30, 3C6-31, 3C6-32, 3C6-33)
- 3C6-28** Synthetic study of lactonamycin (1): sequential cycloaddition of benzyne en route to highly functionalized naphthonitrile oxide (Sch. Sci., Tokyo Tech.) ○KAWADA, Takuma; SATO, Shogo; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 3C6-29** Synthetic study of lactonamycin (2): stereoselective construction of

CDEF-ring system (Sch. Sci., Tokyo Tech.) ○SATO, Shogo; TAKIKAWA, Hiroshi; SUZUKI, Keisuke

- 3C6-30** Total Synthesis of an Antibiotic, Aquayamycin (Grad. Sch. Sci. Tech., Keio Univ.) ○KOBAYASHI, Takumi; KURIKI, Hajime; MATSUMOTO, Yuka; NAKAYAMA, Harunobu; KUSUMI, Shunichi; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 3C6-31** Synthetic study on carthamin by a stereoselective approach based on symmetrization-desymmetrization (Sch. Sci., Tokyo Tech.) ○AZAMI, Kohei; HAYASHI, Taiki; OHMORI, Ken; SUZUKI, Keisuke
- 3C6-32** Synthetic study of vescalagin and castalagin as C-glycosidic ellagitannin (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○WAKAMORI, Shinnosuke; IKEUCHI, Kazutada; YAMADA, Hidetoshi
- 3C6-33** Confirmation of the absolute configuration of amphidinol 3. (Fac. Sci., Kyushu Univ.) ○WAKAMIYA, Yuma; EBINE, Makoto; OISHI, Tohru

Chair: USUKI, Toyonobu (14 : 40 ~ 15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3C6-35, 3C6-36, 3C6-37, 3C6-38, 3C6-39, 3C6-40)
- 3C6-35** [4 + 2] Cyclization Reaction Using Trisubstituted AllylAlcohols as Diene Precursors (Grad. Sch. Sci., Osaka City Univ.) ○TORIYAMA, Yohei; OGURA, Ryota; YASUNO, Yoko; SHINADA, Tetsuro
- 3C6-36** Total synthesis of cycerecane A using intramolecular transesterification reaction of 3,5-diketooester as a key step (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○ONDA, Kai; HAYAKAWA, Ichiro; SAKAKURA, Akira
- 3C6-37** Physiological Activities of Flavonoids (Fac. Eng., Kindai Univ.) OKADA, Yoshiharu; ○NAKABO, Daisuke; NOMURA, Masato
- 3C6-38** Studies on a Segment Connection Method for the Convergent Synthesis of Nigricanoside A (Fac. Sci., Hokkaido Univ.; Graduate School of Engineering Science, Akita University) ○TSUNODA, Takayuki; FUJIWARA, Kenshu; OKAMOTO, Satoshi; KONDO, Yoshihiko; AKIBA, Uichi; KATOONO, Ryo; SUZUKI, Takanori
- 3C6-39** Synthetic Study of 5,18-diHETE (Sch. Life Sci. Tech., Tokyo Tech.) SUGANUMA, Yuta; ○TANABE, Shuhei; SUGIHARA, Yusuke; KOBAYASHI, Yuichi
- 3C6-40** Synthetic Study of Resolvine D4 (Sch. Life Sci. Tech., Tokyo Tech.) ○MORITA, Masao; KOBAYASHI, Yuichi

Chair: YASUNO, Yoko (15 : 50 ~ 16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3C6-42, 3C6-43, 3C6-44, 3C6-45, 3C6-46, 3C6-47)
- 3C6-42** Synthetic study of mycolic acids using alkyl-alkyl cross-coupling reaction (Grad. Sch. Eng., Osaka Univ.) ○TERAHIGASHI, Shohei; IWASAKI, Takanori; KUNIYASU, Hitoshi; KAMBE, Nobuaki
- 3C6-43** Synthetic study on antibiotic acremoxanthone A (Sch. Sci., Tokyo Tech.) ○NAKAKOHARA, Hiroshi; HIRANO, Yoichi; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 3C6-44** Total synthesis of γ -rubromycin by exploiting intramolecular photoredox reaction (Sch. Sci., Tokyo Tech.) ○WAKITA, Fumihiko; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke
- 3C6-45** Synthesis of acylceramides in the epidermis to identify the mechanism of skin barrier system (Grad. Fac. Life Sci., Hokkaido Univ.) ○MURAI, Yuta; HASHINO, Syota; MONDE, Kenji
- 3C6-46** SDS-PAGE analysis of palytoxin (Kanagawa Univ.) ○ABE, Takahiro; NAITO, Takayuki; UEMURA, Daisuke
- 3C6-47** Synthetic approach to Yoshinone A, anti-obesity drug lead. (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○WAKATSUKI, Yuto; YAMAMOTO, Keita; IWASAKI, Arihiro; SUENAGA, Kiyotake; KOYAMA, Tomoyuki; UEMURA, Daisuke

Chair: HAYAKAWA, Ichiro (17 : 00 ~ 17 : 50)

- * 16:50-17:00: interval for laptop PC connection.(3C6-49, 3C6-50, 3C6-51, 3C6-52, 3C6-53)
- 3C6-49** Asymmetric Synthesis of JBIR-23,-24 (Grad. Sch. Sci. Eng., Univ. of Toyama) MIYAZAWA, Masahiro; ○KUNICHIKA, Ko-ki; HO-DA, Ko-ji; YOKOYAMA, Hajime
- 3C6-50** Synthetic Study on Saptomycin H : Modified Aglycon Synthesis (Sch. Sci., Tokyo Tech.) ○SHIMURA, Jun; MATSUDA, Ayumu; MAEZAWA, Yoshihiko; KITAMURA, Kei; ANDO, Yoshio; MATSUMOTO, Takashi; SUZUKI, Keisuke
- 3C6-51** synthetic study of neostriatinin (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○UEJI, Tatsuya; IKEUCHI, Kazutada; WAKAMORI, Shinnosuke; YAMADA, Hidetoshi
- 3C6-52** Synthesis of the Macaranoyl Group (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○HASHIMOTO, Hajime; KONISHI, Hayato; IKEUCHI, Kazutada; YAMADA, Hidetoshi
- 3C6-53** Total Synthesis of Cardiolipins Containing Chiral Cyclopropane Moieties (Grad. Sch. Sci. Tech., Keio Univ.) ○OHTA, Ippei; ISHIBASHI, Shunichi; TAKAMATSU, Masayuki; FUKASE, Koichi; INUKI, Shinsuke; FUJIMOTO, Yukari

Room C7

Fourth Building, Section B 23

Natural Products Chemistry

Thursday, March 16, AM

Carbohydrates

Chair: SASAKI, Kaname (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1C7-08, 1C7-09, 1C7-10, 1C7-11, 1C7-12)
- 1C7-08** Synthesis of Multibranching Oligomannosides and their Phagocytosis Promoting Effects (Sch. Mater. & Chem. Tech., Tokyo Tech.)
○SUGIYAMA, Hirotsuka; NAKAYAMA, Hitoshi; IWABUCHI, Kazuhisa; TANAKA, Hiroshi
- 1C7-09** Synthesis of β (1,3)-oligoglucans containing branched chains via β (1,6) linkage (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HAMAGAMI, Hiroki; TANAKA, Hiroshi
- 1C7-10** Synthesis of Complex Type N-glycans via Efficient α -Mannosylation Using Suitable Protecting Groups (Grad. Sch. Sci., Osaka Univ.)
○SHOMURA, Hiroki; MANABE, Yoshiyuki; OKAMURA, Soichiro; FUKASE, Koichi
- 1C7-11** Chemoenzymatic synthesis of multi-antennary N-glycans containing polylysosamine (Grad. Sch. Sci., Osaka Univ.) ○OKAMURA, Soichiro; SHOMURA, Hiroki; MANABE, Yoshiyuki; FUKASE, Koichi; WU, Jennifer; LIN, Chun-cheng
- 1C7-12[#]** Synthesis and biological activity of glycosyl inositol phospholipid from *Entamoeba histolytica* (Grad. Sch. Sci., Osaka Univ.; Fac. Sci. Tech., Keio Univ.; Bernhard Nocht Institute for Tropical Medicine) ○AIBA, Toshihiko; SUEHARA, Sae; BERNIN, Hannah; LOTTER, Hannelore; INUKI, Shinsuke; FUKASE, Koichi; FUJIMOTO, Yukari

Chair: MANABE, Yoshiyuki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1C7-15, 1C7-17, 1C7-19, 1C7-20)
- 1C7-15[#]** In Vivo Pattern Recognition by Heterogeneous N-glycoclusters: Controlling Excretion and Tumor Targeting (Bio. Syn. Chem. Lab., RIKEN) ○SIBGATULLINA, Regina; LATYPOVA, Liliya; FUJIKI, Katsumasa; OGURA, Akihiro; URANO, Sayaka; TAHARA, Tsuyoshi; NOZAKI, Satoshi; WATANABE, Yasuyoshi; KURBANGALIEVA, Almira; TANAKA, Kazunori
- 1C7-17[#]** Regio- and Stereoselective Glycosylation of Unprotected Sugar Acceptors Using Boronic Acid Catalyst and Its Application to the Synthesis of Biologically Active Glycosides (Fac. Sci. Tech., Keio Univ.) ○TANAKA, Masamichi; NAKAGAWA, Akira; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 1C7-19** Regio- and Stereoselective Synthesis of Oligosaccharide derived from LPS of *E. coli* Using Organoboron Compounds. (Fac. Sci. Tech., Keio Univ.) ○NASHIDA, Junko; NISHI, Nobuyuki; KAJI, Eisuke; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 1C7-20** Direct Synthesis of a Novel Glycosyl Compound Having Bunte Salt Structure in Aqueous Media (Grad. Sch. Eng., Tohoku Univ.)
○MEGURO, Yasuhiro; NOGUCHI, Masato; LI, Gefei; SHODA, Shin-ichiro

Thursday, March 16, PM

Chair: INUKI, Shinsuke (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1C7-28, 1C7-29, 1C7-30, 1C7-31, 1C7-32)
- 1C7-28** Development of a novel glycosylation triggered by activation of a propargyl group on O-2 of D-glucose (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○MATSUMOTO, Shintaro; IKUTA, Daiki; IKEUCHI, Kazutada; YAMADA, Hidetoshi
- 1C7-29** α -selective glycosylation using 3,6-O-1,1'-(propane-1,3-diyl)dibenzene-2,2'-bis(methylene)-bridged glucose (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○SHIMADA, Hiroaki; IKEUTI, Kazutada; WAKAMORI, Shinnosuke; YAMADA, Hidetoshi
- 1C7-30** Effect of the combined electrolyte system for automated electrochemical solution phase synthesis of TMG-chitotriomycin derivatives (Grad. Sch. Eng., Tottori Univ.) ○KITAMURA, Kei; ISODA, Yuta; TAKAHASHI, Shuji; NOKAMI, Toshiki; ITOH, Toshiyuki
- 1C7-31** Neighboring group participation of alkoxyethyl group for the stereoselective glycosylation (Fac. Sci., Kyushu Univ.) ○JOH, Yohei; OISHI, Tohru; TORIKAI, Kohei
- 1C7-32** Development of S_N1-like glycosylation using 2,6-lactones as donors (Fac. Sci., Toho Univ.) ○HASHIMOTO, Yusuke; SAITO, Ryota; SASAKI, Kaname

Others

Chair: IWASAKI, Arihiro (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(1C7-34, 1C7-35, 1C7-36, 1C7-37, 1C7-38, 1C7-39)
- 1C7-34** Total synthesis of hyptoside, an anti-ATL Lignan. (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○MAEDA, Kazuto; ONITSUKA, Satoaki; HAMADA, Toshiyuki; OKAMURA, Hiroaki
- 1C7-35** Total syntheses of rotenones by using key reaction of 1,2-shift rearrangement (Sch. Sci., Tokyo Tech.) ○MATAUOKA, Seiya; NAKAMURA, Kayo; OHMORI, Ken; SUZUKI, Keisuke
- 1C7-36** Construction of Spirocycles with Three Contiguous Stereocenters by Using Organocatalyst (Fac. Sci. Tech., Keio Univ.; ICR, Kyoto Univ.)
YOSHIDA, Keisuke; ○MATSUI, Kohei; TAKAO, Ken-ichi
- 1C7-37** Structure Analysis of Crude Marine Natural Product by the Crystalline Sponge Method (Grad. Sch. Eng., The Univ. of Tokyo; MIT)
○WADA, Naoki; LEE, Shoukou; KERSTEN, Roland; WENG, Jing-ke; FUJITA, Makoto
- 1C7-38[#]** Structure Determination of Cycloclatanene A and B by the Crystalline Sponge Method (Grad. Sch. Eng., The Univ. of Tokyo; RMIT) ○LEE, Shoukou; HOSHINO, Manabu; URBAN, Sylvia; FUJITA, Makoto
- 1C7-39** Self-assemblies of chlorophylls d and f in n-hexane (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○WADA, Katsuhiko; KANJOH, Terumitsu; ISEI, Yuhta; HANAWA, Yutaka; SHIRAIWA, Yoshihiro; NAKAZATO, Masataka; MIYASHITA, Hideaki; KOBAYASHI, Masami

Chair: TORIKAI, Kohei (15 : 40~16 : 20)

- * 15:30-15:40: interval for laptop PC connection.(1C7-41, 1C7-42, 1C7-43, 1C7-44)
- 1C7-41** Biosynthetic Study of Antibiotic Agent Pleuromutilin(3) (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.; Fac. Bioresource Sci., Akita Pref. Univ.; Grad. Sch. Agric. Sci., Tohoku Univ.)
○YAMANE, Momoka; MINAMI, Atsushi; LIU, Chengwei; OZAKI, Taro; TSUKAGOSHI, Tae; TOKIWANO, Tetsuo; GOMI, Katsuya; OIKAWA, Hideaki
- 1C7-42** Reconstitution of biosynthetic machinery for indole sesquiterpene sespandole isolated from filamentous fungi (2) (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Grad. Sch. Agric. Sci., Tohoku Univ.) ○KUDO, Kousei; MATSUMOTO, Tomoyuki; LIU, Chengwei; OZAKI, Taro; GOMI, Katsuya; MINAMI, Atsushi; OIKAWA, Hideaki
- 1C7-43** Biosynthetic study of Melleolide from Basidiomycota Utilizing Heterologous Expression System (1) (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) ○NAGAMINE, Shota; MINAMI, Atsushi; LIU, Chengwei; OZAKI, Taro; OIKAWA, Hideaki
- 1C7-44** Substrate specificity of cytochrome P450 monooxygenase GfsF involved in the biosynthesis of FD-891 (Sch. Sci., Tokyo Tech.; Grad. Sch. Pharm. Sci., Tohoku Univ.) ○TAKAYANAGI, Ryuichi; FURUYA, Takashi; MIYANAGA, Akimasa; KUDO, Fumitaka; EGUCHI, Tadashi; KAWAMATA, Ayano; IWABUCHI, Yoshiharu; KANOH, Naoki

Chair: OGURI, Hiroki (16 : 30~17 : 10)

- * 16:20-16:30: interval for laptop PC connection.(1C7-46, 1C7-47, 1C7-48, 1C7-49)
- 1C7-46** Functional analysis of the iterative PKS-NRPS hybrid using heterologous expression system -1- (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) ○UGAI, Takahiro; MINAMI, Atsushi; OZAKI, Taro; YAMANE, Momoka; LIU, Chengwei; OIKAWA, Hideaki
- 1C7-47** Biosynthetic study of fungal polyketide natural products (Fac. Sci., Hokkaido Univ.; Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○LIU, Chengwei; YAMANE, Momoka; OZAKI, Taro; MINAMI, Atsushi; OIKAWA, Hideaki
- 1C7-48** Functional Analysis of Radical S-adenosyl-L-methionine C-methyltransferase involved in Fosfomycin Biosynthesis (Sch. Sci., Tokyo Tech.; Biotechnology Research Center, The Univ. of Tokyo) ○SATO, Shusuke; KUDO, Fumitaka; EGUCHI, Tadashi; KUZUYAMA, Tomohisa
- 1C7-49** The introducing mechanism of the amino group in the biosynthesis of pactamycin (Sch. Sci., Tokyo Tech.) ○HIRAYAMA, Akane; KUDO, Fumitaka; EGUCHI, Tadashi

Friday, March 17, AM

Carbohydrates

Chair: TAKAHASHI, Daisuke (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2C7-01, 2C7-02, 2C7-03, 2C7-04, 2C7-05, 2C7-06)
- 2C7-01** Stereoselective synthesis of O-methylated glycolipids related to PGLs (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SATO, Ko; TANAKA, Hiroshi
- 2C7-02** Synthesis of α (2,8)oligosialic acids using a 7O,9O-carbonyl protected sialic donor. (Sch. Mater. & Chem. Tech., Tokyo Tech.)
○KOINUMA, Ryouyusuke; AOYAGI, Taku; TANAKA, Hiroshi
- 2C7-03** Study on the synthesis of universal type chiral building blocks using D-Glucose as a starting material (Grad. Sch. Eng., Kanagawa Univ.) ○GAO,

- Yang; FUJINAGA, Kosuke; MITSUHASHI, Akari; TAKI, Ryo; AKAI, Shoji; SATO, Ken-ichi
- 2C7-04** The smallest cyclodextrin: synthesis of cyclic trimer of α -1,4-glucoside (Sch. Sci. Tech., Kwansai Gakuin Univ.) OIKUTA, Daiki; IKEUCHI, Kazutada; YAMADA, Hidetoshi
- 2C7-05** Synthetic Studies and Functional Analysis of D-glycero-D-manno-Heptose 1 β ,7-Bisphosphate (Fac. Sci. Tech., Keio Univ.; IMS, The Univ. of Tokyo) OKAWAKAMI, Shota; AIBA, Toshihiko; AKIYAMA, Taishin; INOUE, Junichiro; INUKI, Shinsuke; FUJIMOTO, Yukari
- 2C7-06** Total Synthesis of Digalactosyl Diacylglycerol from *Phleum pratense* (Fac. Sci. Tech., Keio Univ.) OKISHI, Junichiro; KASHIWABARA, Emi; AIBA, Toshihiko; INUKI, Shinsuke; FUJIMOTO, Yukari

Chair: IKEUCHI, Kazutada (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2C7-08, 2C7-09, 2C7-10, 2C7-11, 2C7-12, 2C7-13)
- 2C7-08** Synthetic study of asialo-complex-type oligosaccharide. (Fac. Sci. and Technol., Seikei Univ.) OTSUCHIMOTO, Riho; IWATA, Kodai; YOKOMIZO, Rika; HIRANO, Makoto; TOTANI, Kiichiro
- 2C7-09** Synthesis and structural analysis of plant oligoarabinofuranoside with β -1-arabinofuranoside (RIKEN) OISHIWATA, Akihiro; ITO, Yukishige
- 2C7-10** Synthesis of GPI anchor oligosaccharides based on the automated electrochemical synthesis of α -1,6-mannosidic bonds (Grad. Sch. Eng., Tottori Univ.) OSATOH, Takumi; SASAKI, Norihiko; NOKAMI, Toshiki; ITOH, Toshiyuki
- 2C7-11** Synthetic study of ABO blood type antigens applying the inhibition of intermolecular hydrogen bonding network (Grad. Sch. Sci., Osaka Univ.) OTSUTSUI, Masato; MANABE, Yoshiyuki; FUKASE, Koichi
- 2C7-12** Synthetic studies of forsythoside A and its analogues using Knoevenagel condensation as a key reaction (Pharm. and Applied Life Sci., NUPALS) KOJIMA, Masaru; OKODAMA, Hitomi; KOTAKE, Yuna; NAKAMURA, Yutaka
- 2C7-13** Investigation of Novel Organophotoacids and Their Applications to the Photo-Induced Environmentally Benign *O*-Glycosylation (Fac. Sci. Tech., Keio Univ.) OAOYAGI, Manabu; IWATA, Ryosuke; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

Chair: MANABE, Yoshiyuki (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(2C7-15, 2C7-16, 2C7-17, 2C7-18, 2C7-19)
- 2C7-15** Organ-selective in vivo metal catalyzed reaction (Bio. Syn. Chem. Lab., RIKEN; Grad. Sch. Advanced Sci. Eng., Waseda Univ.) OTSUBOKURA, Kazuki; VONG, Kenward; NAKAO, Yoichi; TANAKA, Katsunori
- 2C7-16[#]** In vivo glycan-protein conjugation via metal catalysis (Bio. Syn. Chem. Lab., RIKEN) OLIN, Yixuan; VONG, Kenward; MATSUOKA, Koji; TANAKA, Katsunori
- 2C7-17** Tumor cell recognition by collaborative recognition of peptide/oligosaccharide (Bio. Syn. Chem. Lab., RIKEN) ONOMURA, Shogo; TANAKA, Katsunori
- 2C7-18** Synthesis of a trimer of sulfated oligofucoside and its inhibitory activity against influenza virus infection (Fac. Sci. Tech., Keio Univ.) OKASAI, Akihiro; KOSONO, Shuhei; MATSUBARA, Teruhiko; SATOU, Toshinori; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 2C7-19** AGEs model derived by spermine, and oxidative stress to cells (Bio. Syn. Chem. Lab., RIKEN) OTSUTSUI, Ayumi; KITAZUME, Shinobu; TANIGUCHI, Naoyuki; TANAKA, Katsunori

Friday, March 17, PM

Amino Acid, Peptide

Chair: ISHIKAWA, Yuichi (14 : 30~15 : 20)

- * 14:20-14:30: interval for laptop PC connection.(2C7-34, 2C7-35, 2C7-36, 2C7-37, 2C7-38)
- 2C7-34** Search for muscle glucose uptake properties in Okinawan marine organism compounds (Fac. Edu., Univ. of Ryukyus) OYAMANO, Aki; OZAKI, Kaori; YAMADA, Miki; SUEYOSHI, Kosuke; SUMIMOTO, Shinpei; IWASAKI, Arihiro; SUENAGA, Kiyotake; TERUYA, Toshiaki
- 2C7-35** Isolation and structure of new cyclic depsipeptides, kohamamides A-C, from the marine cyanobacteria (Fac. Sci. Tech., Keio Univ.) OSHIOTA, Ikuma; SUMIMOTO, Shimpei; IWASAKI, Arihiro; SUENAGA, Kiyotake
- 2C7-36[#]** Synthetic Study of Phomopsin A (Grad. Sch. Sci., Osaka City Univ.) OKARITA, Yuma; YASUNO, Yoko; SHINADA, Tetsuro
- 2C7-37[#]** Synthetic Study of SF-2132 (Grad. Sch. Sci., Osaka City Univ.) OSAWAI, Akira; SEKIHARA, Ai; YASUNO, Yoko; SHINADA, Tetsuro
- 2C7-38[#]** Catalytic Asymmetric Synthesis of Diamino Dicarboxylic Acids (Grad. Sch. Sci., Osaka City Univ.) OMIZUTANI, Iho; YASUNO, Yoko; SHINADA, Tetsuro

Chair: SHINADA, Tetsuro (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(2C7-40, 2C7-42, 2C7-43, 2C7-44, 2C7-45)
- 2C7-40^{*}** Minnamide A-D, novel linear lipopeptides that contained unique fatty acid, isolated from a marine cyanobacterium. (Grad. Sch. Sci. Tech., Keio

- Univ.) OSUMIMOTO, Shimpei; SHINOMIYA, Seichi; IWASAKI, Arihiro; INUZUKA, Toshiyasu; TERUYA, Toshiaki; SUENAGA, Kiyotake
- 2C7-42** Synthetic study of a marine lipopeptide, Minnamide A (Fac. Sci. Tech., Keio Univ.) OSHINOMIYA, Seichi; SUMIMOTO, Shinpei; IWASAKI, Arihiro; SUENAGA, Kiyotake
- 2C7-43** Chichibabin Pyridine Synthesis of Elastin Cross-linking Amino Acid Isodesmopyridine (Sci. Tec., Sophia Univ.) OFUSE, Wakana; USUKI, Toyonobu
- 2C7-44** Synthesis of isodesmosine-(Ala)₄ for Elucidation of the Crosslinking Structure of Elastin (Sci. Tec., Sophia Univ.) OKURITA, Manami; MURAKAMI, Yuko; LIN, Yong Y.; USUKI, Toyonobu
- 2C7-45** Synthesis of deuterated desmosine (Sci. Tec., Sophia Univ.) OWATANABE, Daisuke; SUZUKI, Rina; USUKI, Toyonobu

Chair: SATO, Takaaki (16 : 40~17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(2C7-47, 2C7-48, 2C7-50, 2C7-51, 2C7-52)
- 2C7-47[#]** Synthetic Study of Ustiloxin D (1) (Grad. Sch. Sci., Osaka City Univ.) OYAMAGUCHI, Shunsuke; YASUNO, Yoko; SHINADA, Tetsuro
- 2C7-48[#]** Synthetic Study of Ustiloxin D (2) (Grad. Sch. Sci., Osaka City Univ.) OYASUNO, Yoko; FUKU, Kazuma; SHINADA, Tetsuro
- 2C7-50[#]** Synthetic Study of Deoxyustiloxin D (Grad. Sch. Sci., Osaka City Univ.) OSAKAI, Kenta; YASUNO, Yoko; SHINADA, Tetsuro
- 2C7-51** Synthetic study of kanamienamide, a cyclic depsipeptide containing an enamide. (Keio Univ.) OJIMA, Daisuke; IWASAKI, Arihiro; OJIMA, Daisuke
- 2C7-52** Synthetic study of jahanyne (Grad. Sch. Sci. Tech., Keio Univ.) OKAMOTO, Shinichiro; IWASAKI, Arihiro; SUENAGA, Kiyotake

Saturday, March 18, AM

Terpenes, Steroids

Chair: SHOJI, Mitsuru (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3C7-01, 3C7-03, 3C7-04, 3C7-05, 3C7-06)
- 3C7-01[#]** Synthetic Studies of Callophycoic Acid A (1) (Fac. Sci. Tech., Keio Univ.) OSAKAMA, Akihiro; OGURA, Akihiro; TAKAO, Ken-ichi
- 3C7-03** Synthetic Studies of Callophycoic Acid A (2) (Fac. Sci. Tech., Keio Univ.) OSUMIDA, Wataru; SAKAMA, Akihiro; OGURA, Akihiro; TAKAO, Ken-ichi
- 3C7-04[#]** Total Synthesis of Paracentrone Using Bifunctional C5 Diene Units (Grad. Sch. Sci., Osaka City Univ.) ONISHIOKA, Yuto; YANO, You; KINASHI, Naoto; OKU, Natsumi; TORIYAMA, Yohei; KATSUMURA, Shigeo; SHINADA, Tetsuro; SAKAGUCHI, Kazuhiko
- 3C7-05** Synthetic studies of aplysiaseosterol A, a marine secosteroid (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OTANO, Hikaru; OHYOSHI, Takayuki; KIGOSHI, Hideo
- 3C7-06** Synthetic study of swinhoeisterol A (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OHYOSHI, Takayuki; TAKANO, Atsuhiko; KIGOSHI, Hideo

Chair: KATO, Nobuki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3C7-08, 3C7-09, 3C7-10, 3C7-11, 3C7-12, 3C7-13)
- 3C7-08** Synthetic study of terpenoid containing γ -isopropenyl- γ -lactone (Fac. Pharm., Keio Univ.) OSATO, Soichiro; HANAYA, Kengo; SUGAI, Takeshi; SHOJI, Mitsuru
- 3C7-09** Synthetic studies on HIF-1 activation process inhibitor stronglylophorine analogs based on construction of chromanol using Pd catalyst. (Grad. Sch. Nanobiosci., Yokohama City Univ.) OSHIRASAWA, Takuya; OIKAWA, Masato; ISHIKAWA, Yuichi
- 3C7-10** Enantioselective total synthesis of iso-A82775C (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) OWATANABE, Soichiro; SUZUKI, Takahiro; KOBAYASHI, Susumu; TANINO, Keiji
- 3C7-11** Total synthesis of atropurpuran (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ONAKANISHI, Kenta; SUZUKI, Takahiro; KOBAYASHI, Susumu; TANINO, Keiji
- 3C7-12** Total synthesis of bioactive diterpene, parvifloron F. (Grad. Sch. Pharm. Sci., Kanazawa Univ.; Univ. of North Carolina) OSAITO, Yohei; GOTO, Masuo; NAKAGAWA-GOTO, Kyoko
- 3C7-13** Study on the modified synthesis of Taxol (Fac. Sci. Tech., Keio Univ.) OWATANABE, Ami; FUKAYA, Keisuke; YAMAMOTO, Hiroaki; SATO, Takaaki; CHIDA, Noritaka

Chair: SUZUKI, Takahiro (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3C7-15, 3C7-16, 3C7-18, 3C7-19, 3C7-20)
- 3C7-15** Catalytic asymmetric synthesis of 6-aza-artemisinins and generation of chemical probes (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OTAKAHASHI, Norihito; BONEPALLY, Karunakar Reddy; OGURI, Hiroki
- 3C7-16[#]** Design and *de novo* synthesis of anti-malarial 6-aza-artemisinins (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OREDDY, Bonepally Karunakar; TAKAHASHI, Norihito; OGURI, Hiroki

- 3C7-18** Practical Synthesis of Coronatine (Grad. Sch. Sci., Tohoku Univ.)
○KATO, Nobuki; HAYASHI, Kengo; OGURA, Yusuke; EGOSHI, Susuke; KUWAHARA, Shigefumi; UEDA, Minoru
- 3C7-19** Efficient synthesis of epoxy-decatrienoic acid unit to elucidate pathological mechanism of host-specific toxin (Grad. Sch. Sci., Tohoku Univ.) ○IMAI, Masaki; KATO, Nobuki; UEDA, Minoru
- 3C7-20*** Cholesterol interaction and membrane-permeabilizing properties of OSW-1 examined by solid-state NMR and fluorescence microscopy (Grad. Sch. Sci., Osaka Univ.) ○MALABED, Raymond; MURATA, Michio; HANASHIMA, Shinya; SAKURAI, Kaori

Room C8

Fourth Building, Section B 33

Chemical Biology

Thursday, March 16, AM

Chair: OKURO, Kou (10:00~10:50)

- * 9:50-10:00: interval for laptop PC connection.(1C8-07, 1C8-08, 1C8-09, 1C8-10, 1C8-11)
- 1C8-07** Target-Selective Photodegradation of Glycosidases by Photoactivatable Sugar Hybrids (Fac. Sci. Tech., Keio Univ.) ○OKUYAMA, Mai; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 1C8-08** Synthesis and Biological Evaluation of ROS-Responsive Fluorophore-Photoactivatable Molecule Hybrids as Theranostic Agents (Fac. Sci. Tech., Keio Univ.) ○TAKAGI, Ryoma; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 1C8-09** Identification of sulfotransferase genes related to migration of liver cancer cell and analysis of their mechanism. (Fac. Sci. Tech., Keio Univ.) ○MIYAKUNI, Kosuke; SHIBANO, Yuki; KONNO, Yusuke; SATO, Toshinori
- 1C8-10** Elucidation of glycans that regulate replication of Hepatitis C virus genome (Grad. Sch. Sci. Tech., Keio Univ.) ○YAMAGUCHI, Hirota; YAMAGUCHI, Junya; KATANO, Naoya; SUZUKI, Tetsuro; ONODERA, Masafumi; SATO, Toshinori
- 1C8-11*** Studies on asymmetric synthesis of excitatory agent IKM-154 (International Coll. Art Sci., Yokohama City Univ.; International Coll. Arts Sci., Yokohama City Univ.) ○ITAGAKI, Hiyori; ISHIKAWA, Yuichi; OIKAWA, Masato

Chair: KATO, Nobuki (11:00~11:40)

- * 10:50-11:00: interval for laptop PC connection.(1C8-13, 1C8-14, 1C8-15)
- 1C8-13** Use of chemical probes of an antitumor saponin OSW-1 for analysis of its binding proteins (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○ISOGAI, Naho; TAKESHITA, Tomoya; HIRAZUMI, Masato; SAKURAI, Kaori
- 1C8-14** Development of gold nanoparticle-based photoaffinity probes displaying bioactive small-molecule ligands (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KATO, Amane; HATAI, Yuki; SAKURAI, Kaori
- 1C8-15**** Stimuli-responsive Molecular Glues for Modulating Biomolecular Functions (Grad. Sch. Eng., The Univ. of Tokyo) ○MOGAKI, Rina; OKURO, Kou; AIDA, Takuzo

Chair: ISHIKAWA, Yuichi (11:50~12:30)

- * 11:40-11:50: interval for laptop PC connection.(1C8-18, 1C8-19, 1C8-20, 1C8-21)
- 1C8-18** Capture of intracellular glutathione by functional nanoparticles possessing maleimide units (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○ITO, Midori; KURIHARA, Ryohsuke; TANABE, Kazuhito
- 1C8-19** Development of incorporation of functional molecules into proteins using silyl protecting groups with different stability (Grad. Sch. Eng., The Univ. of Tokyo) ○KAMO, Naoki; HAYASHI, Gosuke; OKAMOTO, Akimitu
- 1C8-20** Development of the pyrene probes to analyze protein-ligand interactions (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba; PRESTO, JST) ○WATANABE, Rei; HU, Yaping; YONEDA, Kozo; IIO, Keita; KITA, Masaki; KIGOSHI, Hideo
- 1C8-21** Development of the ligand-dissociated-type amidopyrene probes to analyze protein-ligand interactions (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba; PRESTO, JST) ○HU, Yaping; IIO, Keita; WATANABE, Rei; YONEDA, Kozo; KITA, Masaki; KIGOSHI, Hideo

Thursday, March 16, PM

Chair: TAKAOKA, Yousuke (13:40~14:40)

- * 13:30-13:40: interval for laptop PC connection.(1C8-29, 1C8-31, 1C8-32, 1C8-33)
- 1C8-29*** Design of NO-responsive labeling reagent for proteome analysis (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○NISHIKAWA, Yuki; AWA, Masashi; MIKI, Takayuki; TAMURA, Tomonori; HAMACHI, Itaru

- 1C8-31** Chemical tools for organelle proteomics : (1) Development of ER-localizable Reactive Molecules (Grad. Sch. Eng., Kyoto Univ.) ○FUJISAWA, Alma; TAMURA, Tomonori; HAMACHI, Itaru
- 1C8-32** Chemical tools for organelle proteomics:(2) Addition of time resolution (Grad. Sch. Eng., Kyoto Univ.) ○TAMURA, Tomonori; HAMACHI, Itaru
- 1C8-33*** Discovery of kinetically HDAC2 selective inhibitor (Grad. Sch. of Med. Sci., Kyoto Pref. Univ. of Med.) ○TOJO, Toshifumi; ITOH, Yukihiro; LI, Ying; VAN DER WIEL, Alexander; SUZUKI, Takayoshi

Chair: SHIMOYAMA, Atsushi (14:50~15:50)

- * 14:40-14:50: interval for laptop PC connection.(1C8-36, 1C8-37, 1C8-39, 1C8-41)
- 1C8-36** Comparison of PIP seco-CBI conjugate and PIP chlorambucil conjugate which target specific sequences (Dep. Chem., Sch. Sci., Kyoto Univ.) ○MAEDA, Rina; KASHIWAZAKI, Gengo; BANDO, Toshikazu; SUGIYAMA, Hiroshi
- 1C8-37**** Analysis of Genomic DNA-Binding Sequences of an Alkylating PI Polyamide Conjugate by a High-Throughput Sequencer (Dep. Chem., Sch. Sci., Kyoto Univ.) ○KASHIWAZAKI, Gengo; TANIGUCHI, Junichi; BANDO, Toshikazu; KAMIKUBO, Yasuhiko; SUGIYAMA, Hiroshi
- 1C8-39*** Rational design of subtype-selective agonist for phytohormone receptor and its functional analyses in Arabidopsis thaliana (Grad. Sch. Sci., Tohoku Univ.) ○TAKAOKA, Yousuke; IWAHASHI, Mana; SAITO, Hiroaki; HAYASHI, Kengo; EGOSHI, Shusuke; KATO, Nobuki; ISHIMARU, Yasuhiro; CHINI, Andrea; SOLANO, Roberto; UEDA, Minoru
- 1C8-41** Development of *in vitro* fluorescent screening system for ligand of jasmonate co-receptor (Grad. Sch. Sci., Tohoku Univ.) ○NAGUMO, Keina; TAKAOKA, Yousuke; IWAHASHI, Mana; UEDA, Minoru

Chair: ITTOU, Kaori (16:00~17:00)

- * 15:50-16:00: interval for laptop PC connection.(1C8-43, 1C8-45, 1C8-47, 1C8-48)
- 1C8-43*** Visualizing water penetration of hair using Microscopic FT-IR (Beauty Care Laboratory, Kracie Home Products, Ltd.) ○FUSE, Naoya; MATSUI, Masashi
- 1C8-45**** Visualizing Lipid Droplets by a Negatively Solvatochromic Fluorescent Probe (Grad. Sch. Sci., Nagoya Univ.) ○OSAKI, Hiroshi; TAKI, Masayasu; KIM, Ju-hyun; GENSCH, Tobias; GLORIUS, Frank; YAMAGUCHI, Shigehiro
- 1C8-47** the Effect of Addition of Lanthanide Ion on the Photostability of Organic Fluorescent (Grad. Sch. Eng., Osaka Univ.) ○IMOTO, Takuma; MIZUKAMI, Shin; KIKUCHI, Kazuya
- 1C8-48** Imaging of Intracellular Mg²⁺ Dynamics during Apoptosis Using Protein-Conjugated Mg²⁺ Probe (Grad. Sch. Eng., Osaka Univ.) ○MATSUI, Yusuke; MIUKAMI, Shin; FUNATO, Yosuke; IMAMURA, Hiromi; MIKI, Hiroaki; KIKUCHI, Kazuya

Chair: KIMURA, Yu (17:10~17:50)

- * 17:00-17:10: interval for laptop PC connection.(1C8-50, 1C8-51, 1C8-52, 1C8-53)
- 1C8-50*** Polyamine-selective reactivity with glycine propargyl esters (Bio. Syn. Chem. Lab., RIKEN) ○VONG, Kenward; TANAKA, Katsunori
- 1C8-51** Interaction of Staphylococcus aureus penicillin-binding protein and vancomycin derivatives (Grad. Sch. Life Sci., Tohoku Univ.) ○SATO, Nao; HATAKEYAMA, Arisa; ITTO, Kaori; SAKAKURA, Masayoshi; INABA, Kenji; TAKAHASHI, Hideo; ARIMOTO, Hirokazu
- 1C8-52** Synthesis and functional evaluation of lipid-modified novel CD1d ligands (Grad. Sch. Sci. Tech., Keio Univ.; Grad. Sch. Sci. Tech., Keio Univ.) ○HIRATA, Natsumi; KASHIWABARA, Emi; AIBA, Toshihiko; INUKI, Shinsuke; FUJIMOTO, Yukari
- 1C8-53** Evaluation of α -GalCer Analogues Selectively Leading Th2 Cytokines (Grad. Sch. Sci. Tech., Keio Univ.) ○KASHIWABARA, Emi; HIRATA, Natsumi; AIBA, Toshihiko; INUKI, Shinsuke; FUJIMOTO, Yukari

Chair: MIZUKAMI, Shin (18:00~18:40)

- * 17:50-18:00: interval for laptop PC connection.(1C8-55, 1C8-56, 1C8-57, 1C8-58)
- 1C8-55** NIR Dye-conjugated Phosphorylcholine Polymer Probes for Tumor Imaging: Effect of Hydrophilicity/Hydrophobicity of the Terminal NIR dyes on the Pharmacokinetics of NIR-PMPC Probes (Grad. Sch. Eng., Kyoto Univ.) ○MATSUMOTO, Natsuki; YAMADA, Hisatsugu; KOMAKI, Takanori; SON, Aoi; KIMURA, Yu; AOYAMA, Yasuhiro; KONDO, Teruyuki
- 1C8-56** Synthesis and Functional Evaluation of a Novel Betaine Polymer Probe (Sch. Eng., Kyoto Univ.) ○KOMAKI, Takanori; YAMADA, Hisatsugu; MATSUMOTO, Natsuki; KIMURA, Yu; SON, Aoi; AOYAMA, Yasuhiro; KONDO, Teruyuki
- 1C8-57** Design and Synthesis of Lipase-selective Fluorescent Probe and its Spectroscopic Properties (Fac. Chem. Materials and Bioeng., Kansai Univ.; Osaka Municipal Technical Research Institute) SATO, Hirofumi; ○MIWA, Masayuki; SIZUMA, Motohiro; KASAKI, Hideya; ARAKAWA, Ryuichi
- 1C8-58** Effect of rare sugars for seed germination (Fac. Sci. Technol., TUS) ○SEMACHI, Takahiro; NAGAO, Masanari; USUKI, Sho; YAMATOYA,

Kenji; IKEKITA, Masahiko; NAKATA, Kazuya

Friday, March 17, AM

Chair: KIYONAKA, Shigeki (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2C8-01, 2C8-02, 2C8-04, 2C8-06)

2C8-01 Culture of mushroom mycelium with antitumor activity and evaluation of immunostimulation ability (Fac. Eng., KAIT) ○NAGAYAMA, Junko; HUJIKAWA, Daiti; SAITO, Takashi**2C8-02**** Development of Multicolour Activatable Protease Probes for Fluorescence and Photoacoustic Cancer Imaging (Grad. Sch. Med., The Univ. of Tokyo; Nat. Def. Med. Coll.) ○IWATATE, Ryu; KAMIYA, Mako; HIRASAWA, Takeshi; ISHIHARA, Miya; URANO, Yasuteru**2C8-04**** Design and Synthesis of a New Series of Prostate-Specific Membrane Antigen (PSMA) Targeting Ligands as PET Imaging Agents and Chemotherapeutics for Prostate Cancer (Univ. of Illinois at Chicago) ○NAKAJIMA, Ryo; KOZIKOWSKI, Alan**2C8-06** Deoxygenation of aliphatic aldehydes by modified Clemmensen reduction (Grad. Sch. Life Sci., Tohoku Univ.) ○YOSHIBA, Ayumi; ITTO, Kaori; XU, Shu; ARIMOTO, Hirokazu

Chair: SATO, Shinichi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2C8-08, 2C8-09, 2C8-10, 2C8-12, 2C8-13)

2C8-08 Visualization of glutamate receptor in brain tissue by an affinity-based chemical labeling (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○YAMAGAMI, Sadatoshi; NISHIKAWA, Yuki; OKUNO, Kyohei; KIYONAKA, Shigeki; HAMACHI, Itaru**2C8-09** Protein Labeling using Polymer-based Ligand-directed Chemistry (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○HAGI, Shinichiro; IKEDA, Ryosuke; JIANG, Yanyan; KUBOTA, Ryou; HAMACHI, Itaru**2C8-10*** Ligand-directed *N*-acyl-*N*-alkyl sulfonamide chemistry: (1) kinetics analysis and protein labeling in live cells (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○UEDA, Tsuyoshi; TSUKIDATE, Taku; GOTO, Taiki; TAMURA, Tomonori; HAMACHI, Itaru**2C8-12** Ligand-directed *N*-acyl-*N*-alkyl sulfonamide chemistry: (2) Relationship between ligand affinity and reaction properties (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○GOTO, Taiki; TSUKIDATE, Taku; UEDA, Tsuyoshi; TAMURA, Tomonori; HAMACHI, Itaru**2C8-13** Development of FUT8 inhibitor using diversity oriented synthesis. (Sch. Sci., Osaka Univ.) ○TAKAKURA, Yohei; MANABE, Yoshiyuki; KASAHARA, Satomi; FUKASE, Koichi

Chair: KABAYAMA, Kazuya (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(2C8-15, 2C8-17, 2C8-19)

2C8-15** Detection of In Vivo Oxidative Stress Based on Reduction Potential of Acrolein Biomarker, FDP (Bio. Syn. Chem. Lab., RIKEN; Grad. Sch. Sci., Osaka Univ.; RIKEN; Kazan Univ.; PRESTO, JST) ○TAKAMATSU, Masayuki; FUKASE, Koichi; OKA, Ritsuko; KITAZUME, Shinobu; TANIGUCHI, Naoyuki; TANAKA, Katsunori**2C8-17*** Chemical Biology of the Reactive Peptide Tag (1):Application of Chemical Labeling to Single Protein Detection by Transmission Electron Microscopy (Shigemoto Group, IST Austria) ○TABATA, Shigekazu; KIDO, Munetsugu; FUCHIDA, Hirokazu; SHIGEMOTO, Ryuichi; HAMACHI, Itaru; OJIDA, Akio**2C8-19** Chemical Biology of the Reactive Peptide Tag (2) : Development of the Third Generation Peptide Tag/Probe Pair and Its Imaging Application (Grad. Sch. Pharm., Kyushu Univ.) ○KURASHIGE, Nobutaka; FUCHIDA, Hirokazu; TABATA, Shigekazu; UCHINOMIYA, Shohei; OJIDA, Akio

Friday, March 17, PM

Chair: OGURI, Hiroki (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(2C8-34, 2C8-35, 2C8-36, 2C8-38)

2C8-34 Molecular design of plasma membrane-selective, inducible protein translocation system (FRIMS, Nagoya Inst. of Tech.; Grad Sch. Eng., Nagoya Inst. of Tech.) ○SAWADA, Shunsuke; NAKAMURA, Akinobu; FUJINUMA, Satoko; OKI, Choji; TSUKIJI, Shinya**2C8-35** Control of two proteins in a single cell (FRIMS, Nagoya Inst. of Tech.; Grad Sch. Eng., Nagoya Inst. of Tech.) ○NAKAMURA, Akinobu; FUJINUMA, Satoko; OKI, Choji; MARYU, Gembu; AOKI, Kazuhiro; MATSUDA, Michiyuki; TSUKIJI, Shinya**2C8-36**** Development of the Disaccharide-Type Activity-Based Probe for Sialidase (Syn. Org. Chem. Lab., RIKEN; Tokyo Med. and Dental Univ.; Grad. Sch. Pharm., Kyushu Univ.; RIKEN CSRS; CREST, AMED) ○FUKAZAWA, Ryo; OONUMA, Kana; KATO, Marie; HIRAI, Go; SODEOKA, Mikiko**2C8-38**** Synthesis and Immunological Evaluation of Self-Adjuvanting *N*-modified Clustered Sialyl-Tn Conjugate Vaccine Candidate (Grad. Sch. Sci., Osaka Univ.) ○CHANG, Tsung-che; MANABE, Yoshiyuki; FUJIMOTO, Yukari; KAMETANI, Yoshie; KABAYAMA, Kazuya; FUKASE, Koichi

Chair: MANABE, Yoshiyuki (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(2C8-41, 2C8-43, 2C8-44, 2C8-45, 2C8-46)

2C8-41** Detection and depletion of carbon monoxide in cells using the high affinity CO receptor, hemoCD (Grad. Sch. Eng., Doshisha Univ.) ○MINEGISHI, Saika; MIYOSHI, Hirotsuna; NEGI, Shigeru; KITAGISHI, Hiroaki; KANO, Koji**2C8-43** Changes of circadian rhythm induced by the selective removal of endogenous CO in mice (Grad. Sch. Eng., Doshisha Univ.) ○MINEGISHI, Saika; KITAGISHI, Hiroaki; NEGI, Shigeru; KANO, Koji**2C8-44*** Synthesis of all the possible isomers of RK460 and its activity evaluation (Syn. Org. Chem. Lab., RIKEN; RIKEN CSRS) ○MIKAME, Yu; YOSHIDA, Kazuko; NAGASAWA, Kazuo; HIRAI, Go; OSADA, Hiroyuki; SODEOKA, Mikiko**2C8-45** Development of Target-Selective Protein-Functionalization on Affinity Beads (Lab. Chem. Life Sci., Tokyo Tech.) ○TSUSHIMA, Michihiko; SATO, Shinichi; NAKAMURA, Hiroyuki**2C8-46** Development of a novel modification reagent for tyrosine residue modification using Ru photocatalysts (Lab. Chem. Life Sci., Tokyo Tech.) ○HATANO, Kensuke; SATO, Shinichi; NAKAMURA, Hiroyuki

Chair: HIRAI, Go (16 : 50~17 : 40)

* 16:40-16:50: interval for laptop PC connection.(2C8-48, 2C8-49, 2C8-51, 2C8-52)

2C8-48 Metallo-chemical genetics (1): Orthogonal Activation of Glutamate Receptor Subtypes (Grad. Sch. Eng., Kyoto Univ.) ○OJIMA, Kento; MICHIBATA, Yukiko; KUBOTA, Ryo; KIYONAKA, Shigeki; HAMACHI, Itaru**2C8-49**** Metallo-chemical genetics (2): Selective activation of adrenoceptors by metal complex-agonist conjugates (Grad. Sch. Eng., Kyoto Univ.) ○KUBOTA, Ryou; NOMURA, Wataru; HAMACHI, Itaru**2C8-51** Metallo-chemical genetics (3): Activity regulation of acetylcholine receptors by metal complex-agonist conjugates (Sch. Eng., Kyoto Univ.) ○IWASAKA, Takuma; NOMURA, Wataru; KUBOTA, Ryou; HAMACHI, Itaru**2C8-52** Chemo-enzymatic total synthesis of jorunnamycin A (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) ○TANIFUJII, Ryo; KOUKETSU, Kento; TAKAKURA, Michiko; ASANO, Ryutarou; MINAMI, Atsushi; OIKAWA, Hideaki; OGURI, Hiroki

Saturday, March 18, AM

Chair: NONAKA, Hiroshi (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3C8-01, 3C8-02, 3C8-03, 3C8-04, 3C8-05, 3C8-06)

3C8-01 One-Pot Double-Clicks for Radiotherapeutics: Preparation and Function of Cu-67-Labeled Biomolecules (Bio. Syn. Chem. Lab., RIKEN) ○FUJIKI, Katsumasa; TANAKA, Katsunori**3C8-02** Cellular uptake of DNA probe with cell penetrating peptide for RNA imaging in live cells (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○TAMAI, Makoto; HAYASHI, Gosuke; OKAMOTO, Akimitsu**3C8-03** Development of a paramagnetic metal ion tag connectable by click reaction for In-cell NMR (Syn. Org. Chem. Lab., RIKEN; RIKEN CSRS; Grad. Sch. Sci. Eng., TMU; Grad. Sch. Pharm., Kyushu Univ.; CREST, AMED) ○NATORI, Fumihiko; HIKONE, Yuya; HIRAI, Go; MISHIMA, Masaki; ITO, Yutaka; SODEOKA, Mikiko**3C8-04** Direct Monitoring of Biological Processes Using Triple-resonance NMR: Synthesis and Evaluation of Stable Isotope-labeled Nicotinamide Riboside as a Redox-sensing Probe (Grad. Sch. Biosci. Bioid., Tokushima Univ.) ○HIROKI, Shimada; HISATSUGU, Yamada; YASUHIRO, Aoyama; KONDO, Teruyuki; YOSHIHIRO, Uto**3C8-05** Fabrication of porous polymer nanosheets and their application to live imaging tools of floating cells (Sch. Eng., Tokai Univ.) ○AOKI, Takuto; ZHANG, Hong; OKAMURA, Yosuke**3C8-06** Synthetic monolignol for efficient photodegradation of plant lignin (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; PRESTO, JST) ○SUZUKI, Jumpei; UCHIDA, Naoyuki; HAGIHARA, Shinya; TORII, Keiko; ITAMI, Kenichiro

Chair: TAKI, Masayasu (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3C8-08, 3C8-09, 3C8-10, 3C8-12)

3C8-08 Visualization of nucleosome wrapping by DNA intercalating dye in histone (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○ISHIBASHI, Maho; HAYASHI, Gosuke; OKAMOTO, Akimitsu**3C8-09** Photoactivatable SERS probes for live-cell imaging (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○KATADA, Sumika; URANO, Wataru; YAMAGUCHI, Satoshi; OKAMOTO, Akimitsu**3C8-10**** Planned biomarker using analyte-responsive drug. (Keio Univ. IAB; Keio Univ. IAB) ○NISHIHARA, Tatsuya; SOGA, Tomoyoshi**3C8-12**** Application for epigenetics research using chemically synthesized histone H2A and H2B (Grad. Sch. Eng., The Univ. of Tokyo) ○SUEOKA, Takuma; HAYASHI, Gosuke; SAKARIBARA, Daisuke; OKAMOTO, Akimitsu

Chair: SAITOH, Tsuyoshi (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3C8-15, 3C8-17, 3C8-18, 3C8-19, 3C8-20)
- 3C8-15**** Near-infrared phospho-rhodamine dyes enabling in vivo fluorescence imaging (WPI-ITbM, Nagoya Univ.) ○GRZYBOWSKI, Marek; TAKI, Masayasu; SATO, Yoshikatsu; SAITOU, Takashi; IMAMURA, Takeshi; YAMAGUCHI, Shigehiro
- 3C8-17** Functional analysis of fluorescent compounds with *o*-(*p*-cyanophenyl) phenol group as a viscosity sensor (IBB, Tokyo Med. and Dental Univ.) ○KATO, Daiki; HIRANO, Tomoya; KAGECHIKA, Hiroyuki
- 3C8-18** Development of novel environment-sensitive fluorophore derived from fluorescent natural compounds (IBB, Tokyo Med. and Dental Univ.) ○YOKOO, Hidetomo; HIRANO, Tomoya; OHSAKI, Ayumi; KAGECHIKA, Hiroyuki
- 3C8-19** Development of a red-emitting calcium ion probe based on a phospho-fluorescein scaffold (Grad. Sch. Sci., Nagoya Univ.) ○OGASAWARA, Hiroaki; TAKI, Masayasu; YAMAGUCHI, Shigehiro
- 3C8-20** Photostable fluorescent probes for lipid droplet imaging in living cells (Grad. Sch. Sci., Nagoya Univ.) ○KAJIWARA, Keiji; AZEYANAGI, Saki; TAKI, Masayasu; YAMAGUCHI, Shigehiro

Saturday, March 18, PM

Chair: IOKA, Shuji (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3C8-28, 3C8-29, 3C8-30, 3C8-32)
- 3C8-28** Development of OFF-ON-OFF-type Fluorogenic Probe for Detecting Protein Degradation (Grad. Sch. Eng., Osaka Univ.) ○YAMASAKI, Kohei; HORI, Yuichiro; KIKUCHI, Kazuya
- 3C8-29** Development of pH-activatable Red Fluorescent Probe for Intravital Imaging of Osteoclast Activities (Grad. Sch. Eng., Osaka Univ.) ○OMORI, Yuta; MAEDA, Hiroki; MINOSHIMA, Masafumi; KIKUCHI, Kazuya
- 3C8-30**** High-throughput screening of ligands for regulation of Striga germination with Yoshimulactone (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; PRESTO, JST) ○YOSHIMURA, Masahiko; TSUCHIYA, Yuichiro; SATO, Ayato; SATO, Yoshikatsu; KINOSHITA, Toshinori; ITAMI, Kenichiro; HAGIHARA, Shinya
- 3C8-32**** New method for affinity-guided protein labeling (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) ○AMAIKE, Kazuma; SONG, Zhining; RI, Shin; TAMURA, Tomonori; HAMACHI, Itaru

Chair: TAKAHASHI, Daisuke (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3C8-35, 3C8-36, 3C8-37, 3C8-39)
- 3C8-35** Nanomedicines for targeting glycosidase in lysosome (Grad. Sch. Life Sci., Hokkaido Univ.) ○KOIDE, Ryosuke; NISHIMURA, Shin-ichiro
- 3C8-36** Analysis of microbe derived from marine sponge *Halichondria okadai* with fluorescence. (Kanagawa Univ.) ○ABE, Takahiro; NAITO, Takayuki; UEMURA, Daisuke
- 3C8-37*** Development of novel imaging system by using firefly bioluminescence (Grad. Sch. Sci. Tech., Keio Univ.) ○IOKA, Shuji; SAITOH, Tsuyoshi; MAKI, Shojiro; IMOTO, Masaya; NISHIYAMA, Shigeru
- 3C8-39**** Development of a bioluminescence-driven cellular signaling manipulation method using an optogenetic tool (Grad. Sch. Sci., The Univ. of Tokyo) ○KAWAMURA, Genki; KATSURA, Yoshihiro; OZAWA, Takeaki

Chair: SATO, Shinichi (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3C8-42, 3C8-43, 3C8-44, 3C8-45, 3C8-46)
- 3C8-42** Selective Derivatization of Fatty Acids for Enhancing Detection Sensitivity in Imaging Mass Spectrometry (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○OKAMURA, Takuma; SETOU, Mitsutoshi; SATO, Kohei; NARUMI, Tetsuo; WATANABE, Naoharu; MASE, Nobuyuki
- 3C8-43[#]** Latent caged cNMPs that can be photoactivated only in the target cells expressing certain enzymes (Fac. Sci., Toho Univ.) ○SAKANO, Taichi; SUZUKI, Akinobu; UENO, Taro; FURUTA, Toshiaki
- 3C8-44[#]** Uptake and response of macrophages sensing of protein needles derived from bacteriophage T4 (Sch. Life Sci. Tech., Tokyo Tech.) ○SHO, Takeya; UENO, Takafumi
- 3C8-45** Multi-photon fluorescence imaging using fiber laser excitable pyridinium derivatives (Grad. Sch. Med., Yamaguchi Univ.) ○MORITOMO, Hiroki; MAKINO, Yohei; OMURA, Yuriko; ASAMURA, Naoya; MATSUSHITA, Hirofumi; ONISHI, Shozou; SUZUKI, Yasutaka; KAWAMATA, Jun
- 3C8-46**** Novel Exciton-Controlled Hybridization-Sensitive Fluorescent Probes for Two-photon Imaging of RNA (Grad. Sch. Eng., The Univ. of Tokyo) ○GUO, Lihao; AKIMITSU, Okamoto

Chair: TAMURA, Tomonori (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(3C8-49, 3C8-50, 3C8-51, 3C8-52, 3C8-53)
- 3C8-49** Creation of an Anthraquinone-Hydrazide Hybrid as a Reducing Sugar Photodegrading Agent and Its Application to Inhibition of AGEs Formation (Fac. Sci. Tech., Keio Univ.) ○TAKAGI, Misato; TAKAHASHI, Daisuke;

TOSHIMA, Kazunobu

- 3C8-50** Synthesis of disulfide-bridged boron cluster-maleimide (SSMID) and identification of its modification site on albumin (Lab. Chem. Life Sci., Tokyo Tech.) ○ISHII, Satomu; SATO, Shinichi; NAKAMURA, Hiroyuki
- 3C8-51** Synthetic approach toward elucidation of auxin signaling (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; PRESTO, JST) ○YAMADA, Ryotaro; IWASAKI, Rie; SATO, Yoshikatsu; TAKAHASHI, Koji; UCHIDA, Naoyuki; KINOSHITA, Toshinori; TORII, Keiko; HAGIHARA, Shinya; ITAMI, Kenichiro
- 3C8-52** Live cell imaging analysis of Toll-like receptor ligands (Grad. Sch. Sci., Osaka Univ.; Fac. Sci. Tech., Keio Univ.) ○YOKOYAMA, Kohei; FENG, Qi; ARAI, Yohei; INUKI, Shinsuke; FUJIMOTO, Yukari; SHIMOYAMA, Atsushi; KABAYAMA, Kazuya; FUKASE, Koichi
- 3C8-53**** Investigation of Concerted Modulators of TLR4/MD-2 (Sch. Sci., Osaka Univ.) ○MIZOTE, Keisuke; SHIMOYAMA, Atsushi; MATSUURA, Yoshifumi; FUJII, Mayu; KANO, Hirotsuka; KABAYAMA, Kazuya; INOKUCHI, Jin-ichi; FUKASE, Koichi

Chair: HAGIHARA, Shinya (18 : 10~18 : 50)

- * 18:00-18:10: interval for laptop PC connection.(3C8-56, 3C8-57, 3C8-58)
- 3C8-56** Design and Synthesis of Low-Molecular-Weight and pH-Dependent Probes for Photoacoustic Imaging (Grad. Sch. Eng., Kyoto Univ.) ○SHIDO, Masahiro; SON, Aoi; KIMURA, Yu; TANABE, Kazuhito; KONDO, Teruyuki
- 3C8-57** Synthesis and Evaluation of Gold Nanorods for Photoacoustic Imaging of Tumor Hypoxia (Grad. Sch. Eng., Kyoto Univ.; Coll. Sci. Eng., Aoyama Gakuin Univ.) ○UMEHARA, Yui; SON, Aoi; KAGEYAMA, Toki; TANABE, Kazuhito; KONDO, Teruyuki
- 3C8-58*** Discovery of small molecules that release a drug by LSD1 inhibition (Grad. Sch. of Med. Sci., Kyoto Pref. Univ. of Med.) ○OTA, Yosuke; ITOH, Yukihiro; SUZUKI, Takayoshi

Sunday, March 19, AM

Chair: PRADIPTA, Ambara (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4C8-01, 4C8-03, 4C8-05)
- 4C8-01*** Elucidation of mechanism of action of anti-inflammatory salicylic acid (Sch. Life Sci. Tech., Tokyo Tech.) ○SAKAMOTO, Satoshi; GUPTA, Vipul; LIU, Shujie; ANDO, Hideki; TATENO, Shumpei; KANEKO, Yuki; YUGAMI, Masato; ISHII, Ryohei; NUREKI, Osamu; YAMAGUCHI, Yuki; HANDA, Hiroshi
- 4C8-03**** Sensitive β -galactosidase-targeting fluorescence probe for visualizing peritoneal metastatic tumors (Grad. Sch. Med., The Univ. of Tokyo) ○ASANUMA, Daisuke; SAKABE, Masayo; KAMIYA, Mako; YAMAMOTO, Kyoko; HIRATAKE, Jun; CHOYKE, Peter; NAGANO, Tetsuo; KOBAYASHI, Hisataka; URANO, Yasuteru
- 4C8-05**** Development of peptidase-targeted fluorescence probes with improved cellular retention (Grad. Sch. Med., The Univ. of Tokyo) ○OBARA, Rui; URANO, Yasuteru; KAMIYA, Mako

Chair: SAKAMOTO, Satoshi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4C8-08, 4C8-10, 4C8-12, 4C8-13)
- 4C8-08**** Development of peptide ligation reaction on DNA scaffold (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○YANASE, Masafumi; HAYASHI, Gosuke; OKAMOTO, Akimitsu
- 4C8-10**** Quantitative single molecular analysis to evaluate the signal transduction efficiencies of a G protein coupled receptor (Grad. Sch. Sci., The Univ. of Tokyo) ○NISHIGUCHI, Tomoki; YOSHIMURA, Hideaki; OZAWA, Takeaki
- 4C8-12*** Development of a protein module for controlling the spatiotemporal activation of TNFR1 with external light (Grad. Sch. Sci., The Univ. of Tokyo) ○KODAMA, Yuki; ENDO, Mizuki; YOSHIMURA, Hideaki; OZAWA, Takeaki
- 4C8-13*** Acrolein imaging of tumor using azide reactivity (Bio. Syn. Chem. Lab., RIKEN) ○PRADIPTA, Ambara; FUJII, Motoko; ITO, Akihiro; ARATA, Mayumi; YOSHIDA, Minoru; TANAKA, Katsunori

Chair: ASANUMA, Daisuke (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4C8-15, 4C8-17, 4C8-18, 4C8-19)
- 4C8-15*** Development of highly selective irreversible inhibitors based on CFA chemistry (Grad. Sch. Pharm., Kyushu Univ.) ○FUCHIDA, Hirokazu; SHINDO, Naoya; SATO, Mami; HATSUYAMA, Yuji; MIURA, Chizuru; OKAMOTO, Kei; WATARI, Kosuke; ONO, Mayumi; OJIDA, Akio
- 4C8-17** Structural and functional significance of *O*-glycosylations in NOTCH1 EGF domains (Grad. Sch. Life Sci., Hokkaido Univ.) ○YOKOI, Yasuhiro; NISHIMURA, Shin-ichiro
- 4C8-18** Discovery of novel cancer biomarkers focusing on the dynamic posttranslational glycosyl alteration (Grad. Sch. Life Sci., Hokkaido Univ.) ○TAKAYAMA, Risa; GEBRESELEMA GEBREHIWOT, Abriha; KATO, Yoshinori; MARIA GARCIA MARTIN, Fayna; HINO, Hiroshi; NISHIMURA, Shin-ichiro
- 4C8-19**** A theory of the dynamic epitope: Autoantibodies to the dynamic epitopes generated by aberrant glycosylation at consecutive threonine motifs in

circulating carcinoma mucins (Grad. Fac. Life Sci., Hokkaido Univ.)
○NISHIMURA, Shin-ichiro

Room D3

Fourth Building Independence Wing
D201

Organic Chemistry -Reaction and Synthesis- Organometallic Compounds

Thursday, March 16, AM

Pd

Chair: ISHIDA, Naoki (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[#] Enantioselective aza-Wacker Reaction Promoted by Pd-SPRIX. (Grad. Sch. Sci., Osaka Univ.) ○SEN, Abhijit; TAKENAKA, Kazuhiro; SASAI, Hiroaki

1D3-02[#] Pd(II)-SPRIX Catalyzed Enantioselective Annulation of Alkenylindoles: Allyl Group Assisted Construction of Quaternary Carbon Center (ISIR, Osaka Univ.) ○ABOZEID, Mohamed Ahmed; TAKIZAWA, Shinobu; TAKENAKA, Kazuhiro; SASAI, Hiroaki

1D3-03[#] The Suzuki-Miyaura Coupling of Nitroarenes (Grad. Sch. Eng., Kyoto Univ.) ○RAMU YADAV, Muntha; NAKAO, Yoshiaki

1D3-04[#] Mechanistic Studies on the Suzuki-Miyaura Coupling of Nitroarenes (Grad. Sch. Eng., Kyoto Univ.) ○NAGAOKA, Masahiro; RAMU YADAV, Muntha; NAKAO, Yoshiaki

1D3-05 The Buchwald-Hartwig Amination of Nitroarenes (Grad. Sch. Eng., Kyoto Univ.) ○INOUE, Fumiyoshi; MUNTHA, Yadav Ramu; NAKAO, Yoshiaki

1D3-06 Reductive Denitration of Nitroarenes (Sch. Eng., Kyoto Univ.) ○KASHIHARA, Myuto; MUNTHA, Yadav Ramu; SEMBA, Kazuhiko; NAKAO, Yoshiaki

Chair: SEMBA, Kazuhiko (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1D3-08, 1D3-09, 1D3-10, 1D3-11, 1D3-13)

1D3-08 Synthesis of conjugated dienes by palladium-catalyzed reaction of 2-alkanones with silylthynyl ethers (Grad. Sch. Sci. Eng., Chuo Univ.) ○YAMADA, Mayu; MINAMI, Yasunori; TSURUOKA, Chisato; HIYAMA, Tamejiro

1D3-09 Ti-Pd Alloys Catalyzed *N*-alkylation involving Hydrogen Autotransfer using Alcohols (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○TAKAHASHI, Yuya; KONDO, Ryota; OBORA, Yasushi

1D3-10 DMF-Protected Pd Nanoclusters Catalyzed Vinylation of Alcohols (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○NAKATSUJI, Masato; ITOH, Satoshi; OBORA, Yasushi

1D3-11[#] Direct Amination of Allyl Alcohol and Benzyl Alcohol Promoted by Pd/Phosphine-Borane Catalyst System (Grad. Sch. Eng., Nagasaki Univ.) ○HIRATA, Goki; KUMAGAE, Hidenobu; ONODERA, Gen; KIMURA, Masanari

1D3-13 Direct Allylic Alkylation of Allyl Alcohol by Use of Pd/Phosphine-Borane Catalyst System (Grad. Sch. Eng., Nagasaki Univ.) ○SHIMIZU, Aika; HIRATA, Goki; ONODERA, Gen; KIMURA, Masanari

Chair: MINAMI, Yasunori (11 : 20 ~ 12 : 10)

* 11:10-11:20: interval for laptop PC connection.(1D3-15, 1D3-17, 1D3-19)

1D3-15[#] Palladium-Catalyzed Synthesis of Thiophene Derivatives via the Cleavage of Carbon-Sulfur Bonds in Aryl Sulfides (Grad. Sch. Eng., Osaka Univ.) ○TOBISU, Mamoru; ○MASUYA, Yoshihiro; CHATANI, Naoto

1D3-17[#] Pd-Catalyzed Synthesis of Cyclic Diarylborinic Acids Using a Dihydroaminoborane Reagent and its Application to the Construction of π -Extended Heteroarenes (Grad. Sch. Eng., Osaka Univ.) ○TOBISU, Mamoru; ○IGARASHI, Takuya; CHATANI, Naoto

1D3-19 Palladium-Catalyzed Ring-Opening Cross-Coupling Reaction of Cyclobutenols (Fac. Sci., TUS) ○MATSUMOTO, Takeshi; MATSUDA, Takanori

Thursday, March 16, PM

Chair: ITO, Shigekazu (14 : 40 ~ 15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1D3-35, 1D3-38, 1D3-40)

1D3-35[#] CSJ Award for Young Chemists Development of Novel Chain-Growth Polymerizations Based on Retrosynthetic Strategy (Grad. Sch. Eng., The Univ. of Tokyo) ○ITO, Shingo

1D3-38[#] Regio- and Stereoselective Halothiolation of Alkynes Catalyzed by Palladium or Iron (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIIS, Okayama Univ.; Dept. Chem., Aichi Univ. of Educ.) ○IWASAKI, Masayuki; FUJII, Tomoya; MICHIIHIRO, Nozomi; YAMAMOTO, Arisa;

NAKAJIMA, Kiyohiko; NISHIHARA, Yasushi

1D3-40 Copper-Catalyzed Regioselective Aminothiolation of Alkenes (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIIS, Okayama Univ.; Dept. Chem., Aichi Univ. of Educ.) ○SAWANAKA, Yuta; FUJII, Tomoya; SHINOZAKI, Takaaki; IWASAKI, Masayuki; NAKAJIMA, Kiyohiko; NISHIHARA, Yasushi

Chair: IWASAKI, Masayuki (15 : 50 ~ 16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1D3-42, 1D3-43, 1D3-44, 1D3-45, 1D3-46, 1D3-47)

1D3-42 Palladium-Catalyzed Arylation and alkynylation of gem-Dibromophosphathene (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SHINOZAKI, Tomokazu; MIKAMI, Koichi; ITO, Shigekazu

1D3-43 Palladium-Catalyzed Coupling of Acyl Fluorides with Boronic Acids for Synthesis of Ketones (Fac. Sci. Technol., TUS) ○SAKINO, Daisuke; OGIWARA, Yohei; SAKAI, Norio

1D3-44 Palladium-Catalyzed Intramolecular Cyclization of Salicylic Acid Derivatives Bearing an Alkynyl Group (Fac. Sci. Technol., TUS) ○SUZUKI, Yui; SATO, Kazuya; OGIWARA, Yohei; SAKAI, Norio

Rh

1D3-45 Catalytic Synthesis of Cyclic Peptides by the Intramolecular [2+2+2] Cycloaddition of Peptide-Tethered Branched Triynes (Sch. Advanced Sci. Eng., Waseda Univ.) ○OBINATA, Shuhei; TAHARA, Yu-ki; KANYIVA, Kyalo Stephen; SHIBATA, Takanori

1D3-46 Rhodium(III)-catalyzed Sequential Formal Lossen Rearrangement/Oxidative [3+2] Annulation of *N*-Acylxybenzamides with Alkynes (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○YAMADA, Takayuki; SHIBATA, Yu; YOSHIZAKI, Soichi; TANAKA, Ken

1D3-47 Synthesis and Catalytic Activity of Functionalized Indenyl-Rhodium (III) Complexes by Reductive Complexation (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TERASAWA, Jyunichi; SHIBATA, Yu; KIMURA, Yuki; TANAKA, Ken

Chair: KONDO, Teruyuki (17 : 00 ~ 18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1D3-49, 1D3-51, 1D3-52, 1D3-53, 1D3-54)

1D3-49[#] Enantioselective Synthesis of C_3 -Symmetric [3]Cycloparaphenylene-cyclopropanes (Grad. Sch. Eng., Kyoto Univ.) ○NAKAMURO, Takayuki; STEWART, Scott; MIURA, Tomoya; MURAKAMI, Masahiro

1D3-51 Rhodium-Catalyzed Asymmetric Cyclotrimerization Reaction of 1-Mesylyl-4-(5-vinylthiophene-3-yl)-1,2,3-triazole (Grad. Sch. Eng., Kyoto Univ.) ○ISHIHARA, Yumi; NAKAMURO, Takayuki; MIURA, Tomoya; MURAKAMI, Masahiro

1D3-52 Synthesis and Catalytic Activity of Cyclopentadienyl Rhodium(III) Complexes Bearing a Pendant Amide Moiety (Sch. Mater. & Chem. Tech., Tokyo Tech.) YOSHIZAKI, Soichi; ○SHIBATA, Yu; TANAKA, Ken

1D3-53 Synthesis of Chiral Cyclopentadienyl Rhodium(III) Complexes Bearing a Pendant Amide Moiety and Their Application to Asymmetric Catalysis (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KAWASAKI, Kazuma; SHIBATA, Yu; YOSHIZAKI, Soichi; TANAKA, Ken

1D3-54 Rhodium-Catalyzed Carbonylation of (2-Pyridylmethylene)cyclobutanes (Fac. Sci., TUS) ○FUKUHARA, Keisuke; YUIHARA, Itaru; MATSUMOTO, Takeshi; MATSUDA, Takanori

Chair: MIURA, Tomoya (18 : 10 ~ 18 : 50)

* 18:00-18:10: interval for laptop PC connection.(1D3-56, 1D3-57, 1D3-58, 1D3-59)

1D3-56 Highly Selective 1,1-Addition of Diboron to Terminal Alkynes catalyzed by Rhodium complex (Grad. Sch. Eng., Kyoto Univ.) ○ABE, Kenichi; HIROTA, Tsuyoshi; KIMURA, Yu; KONDO, Teruyuki

1D3-57 Ruthenium-Catalyzed Highly Selective 1,2-*trans*-Addition of Allyl Sulfides to Electron-Deficient Terminal Alkynes (Grad. Sch. Eng., Kyoto Univ.) ○HIROTA, Tsuyoshi; ABE, Kenichi; KIMURA, Yu; KONDO, Teruyuki

1D3-58 Rh(I)-Catalyzed Asymmetric Cyclization between Allylic Alcohols and Alkynes (Grad. Sch. Pharm., Hokkaido Univ.) ○MASUSAKI, Shuichi; SAKAMOTO, Shunki; OONISHI, Yoshihiro; SATO, Yoshihiro

1D3-59 Rh(I)-catalyzed intermolecular [6+2] cycloaddition of 4-allenyl carbonyl compound (Fac. Pharm., Hokkaido Univ.) ○HAMANO, Taisuke; TAKEDA, Kenya; OONISHI, Yoshihiro; SATO, Yoshihiro

Friday, March 17, AM

Chair: SHIBATA, Yu (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2D3-01, 2D3-02, 2D3-03, 2D3-04, 2D3-05, 2D3-06)

2D3-01 Rhodium-catalyzed peri-selective coupling reaction through thioether-directed C-H cleavage (Grad. Sch. Eng., Osaka Univ.) ○SHIGENO, Masanori; NISII, Yuji; SATOH, Tetsuya; MIURA, Masahiro

2D3-02 Regioselective Synthesis of Benzophosphole Derivatives via Rhodium Catalyzed Direct Alkenylation of Arylthiophosphinamides (Graduate School of Engineering, Osaka University) ○UNOH, Yuto; SATOH, Tetsuya; HIRANO, Koji; MIURA, Masahiro

- 2D3-03** Catalytic Enantioselective Synthesis of the Tribezothiepins Fused with Dibenzothiophene by the Intramolecular Cycloaddition (Sch. Advanced Sci. Eng., Waseda Univ.) ○FUSAMAE, Toru; MITAKE, Akihito; KANYIVA, Kyalo Stephen; SHIBATA, Takanori
- 2D3-04** Catalytic and Enantioselective Synthesis of the Tribezo-1,4-dithiocins by the Intramolecular Cycloaddition (Sch. Advanced Sci. Eng., Waseda Univ.) ○MITAKE, Akihito; AKIYAMA, Yosuke; KANYIVA, Kyalo Stephen; SHIBATA, Takanori
- 2D3-05** Synthesis of Borylalkenes via Rhodium-Catalyzed Decarbonylative Borylation of α, β -Unsaturated Thioesters (RIKEN CLST) ○OCHIAI, Hidenori; NIWA, Takashi; HOSOYA, Takamitsu
- 2D3-06** Synthesis of *gem*-Diborylalkenes via Rh-Catalyzed 1,1-Diborylation of Vinyl Sulfides (Center for Life Science Technologies, RIKEN) ○ISODA, Motoyuki; UETAKE, Yuta; NIWA, Takashi; HOSOYA, Takamitsu

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

- * 10:00-10:10: interval for laptop PC connection.(2D3-08, 2D3-09, 2D3-10, 2D3-11, 2D3-13)
- 2D3-08** Rhodium-Catalyzed Transformation of Heteroaryl Aryl Ethers into Heteroaryl and Aryl Fluorides (Grad. Sch. Pharm. Sci., Tohoku Univ.) ○TANII, Saori; TAZAWA, Takeru; ARISAWA, Mieko; YAMAGUCHI, Masahiko
- 2D3-09** Synthesis of Unsymmetric Di(heteroaryl) Sulfides by Rhodium-Catalyzed Heteroarylthio Exchange Reaction of Heteroaryl Ethers and Heteroaryl Thioesters (Grad. Sch. Pharm. Sci., Tohoku Univ.) ARISAWA, Mieko; ○TAZAWA, Takeru; TANII, Saori; YAMAGUCHI, Masahiko
- 2D3-10** Rhodium-Catalyzed Isomerization and Alkyne Exchange Reactions of 1,4-Dithiins (Grad. Sch. Pharm. Sci., Tohoku Univ.) ARISAWA, Mieko; ○SAWAHATA, Kyousuke; ICHIKAWA, Takuya; YAMAGUCHI, Masahiko
- 2D3-11*** Electron-Deficient Rhodium(III) Complex-Catalyzed Oxidative sp^2 C-H Bond Alkenylation and Allylation (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TAKAHAMA, Yuji; SHIBATA, Yu; TANAKA, Ken
- 2D3-13** Rhodium(III)-Catalyzed Oxidative and Decarboxylative [2+2+2] Annulation of Benzoic Acids with Internal Alkynes at Room Temperature (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HONJO, Yusaku; SHIBATA, Yu; KUDO, Eiji; NAMBA, Tomoya; MASUTOMI, Koji; TANAKA, Ken

Chair: MIURA, Masahiro (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2D3-15)
- 2D3-15# CSJ Award for Creative Works** Development of Rhodium-Catalyzed Asymmetric [2+2+2] Cycloaddition Reactions (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TANAKA, Ken

Friday, March 17, PM

Pd

Chair: SATOH, Tetsuya (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2D3-28, 2D3-29, 2D3-30, 2D3-31, 2D3-32, 2D3-33)
- 2D3-28** Triarylmethane-Monophosphines: Synthesis, Coordination Properties, and Application to Pd-Catalyzed Conjugate Addition Reactions (Fac. Sci., Hokkaido Univ.) ○IWAI, Tomohiro; TANAKA, Ryotaro; SAWAMURA, Masaya
- 2D3-29** Palladium-catalyzed C2-selective dimerization of pyridines (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○YAMADA, Shuya; KANEDA, Takeshi; MURAKAMI, Kei; ITAMI, Kenichiro
- 2D3-30** Synthesis and Application of Axially Chiral Aminophosphine Ligands with 2-Adamantyl Group (Grad. Sch. Eng., Chiba Univ.) MINO, Takashi; ○EBISAWA, Toshiumi; YOSHIDA, Yasushi; SAKAMOTO, Masami
- 2D3-31** Palladium-Catalyzed Allylic Isocyanation of Allyl Alcohol Derivatives (Sch. Eng., Hokkaido Univ.) ○TANI, Ryutarou; YURINO, Taiga; OHKUMA, Takeshi
- 2D3-32#** Palladium-Catalyzed Coupling of Aryl Bromides with 2,2-Diaryl-2-hydroxyacetates via C-C Bond Cleavage (Grad. Sch. Eng., Kyoto Univ.) ○LIAO, Wenqing; MASUDA, Yusuke; ISHIDA, Naoki; MURAKAMI, Masahiro
- 2D3-33** Palladium-Catalyzed ortho-Selective C-H Chlorination of Benzamide Derivatives under Anodic Oxidation Conditions (Fac. Sci. Tech., Keio Univ.) ○KONISHI, Miki; TSUCHIDA, Kazuya; KOCHI, Takuya; KAKIUCHI, Fumitoshi

Chair: YURINO, Taiga (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2D3-35, 2D3-36, 2D3-37, 2D3-38, 2D3-39, 2D3-40)
- 2D3-35** Dehydrogenative Formation of Resorcinol Derivatives Using Pd/C-Ethylene Catalytic System (Faculty of Science, Kobe University) ○SHIMOMOTO, Yuya; YUSSIF EL-DEEB, Ibrahim; FUNAKOSHI, Tatsuya; MATSUBARA, Ryosuke; HAYASHI, Masahiko
- 2D3-36** Diastereo- and Enantioselective Allylation Reaction of Aldehydes with 4,4-Diborylbutene Catalyzed by Palladium(I) and (R)-TRIP (Grad. Sch. Eng., Kyoto Univ.) ○NAKAHASHI, Junki; MIURA, Tomoya;

MURAKAMI, Masahiro

- 2D3-37** Palladium-catalyzed Sonogashira-type Cross-coupling of 2,2-Difluorovinyl tosylate with Terminal Alkynes (Grad. Sch. Sci., Osaka City Univ.) ○FUJINO, Takumi; HINOUE, Tomoaki; USUKI, Yoshinosuke; SATOH, Tetsuya
- 2D3-38** Pd/NHC-catalyzed Regioselective Suzuki-Miyaura Arylation of 2-Alkoxy carbonylaziridines (Grad. Sch. Eng., Osaka Univ.) ○MATSUNO, Tetsuya; TAKEDA, Youhei; MINAKATA, Satoshi
- 2D3-39** Palladium-Catalyzed Arylation of Alkenes Possessing a Distant Acetoxy Group via Chain Walking (Fac. Sci. Tech., Keio Univ.) ○KUMAGAI, Takaaki; KAKIUCHI, Fumitoshi; KOCHI, Takuya
- 2D3-40** Preparation of Chiral Abnormal N-Heterocyclic Carbenes and Application in Asymmetric Suzuki-Miyaura Cross-Coupling Reaction (Grad. Sch. Sci. Eng., Chuo Univ.) HARAGUCHI, Ryosuke; ○HOSHINO, Shun; FUKUZAWA, Shin-ichi

Chair: SEMBA, Kazuhiko (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(2D3-42, 2D3-43, 2D3-44, 2D3-45, 2D3-46)
- 2D3-42** Palladium-Catalyzed Reaction of Benzocyclobutenones with Silacyclobutenes: σ -Bond Metathesis between C-C and C-Si Bonds (Grad. Sch. Eng., Kyoto Univ.) ○OKUMURA, Shintaro; SUN, Fangzhu; ISHIDA, Naoki; MURAKAMI, Masahiro
- 2D3-43** Palladium-catalyzed double sulfonamidation of 2-fluoroallylic acetates (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○TSUCHI, Yukiko; KOGAWA, Masaki; WATANABE, Hirotsuka; KAWATSURA, Motoi
- 2D3-44#** α -Functionalization of Carbonyl Compounds Based on Palladium Enolate Umpolung (ISIR, Osaka Univ.) ○NOMOTO, Yuya; SAWADA, Kazuya; TAKENAKA, Kazuhiro; SASAI, Hiroaki
- 2D3-45** New Synthetic Method of *N,N*-Divinylamides (Sch. Life Sci. Tech., Tokyo Tech.) ○MIZUMOTO, Shiina; OGAWA, Shin; SIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
- 2D3-46** Direct C-H arylation of aromatic thioamides (Fac. Eng., Gifu Univ.) ○ASAI, Yusuke; YAMAUCHI, Takayuki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki

Chair: SHIBAHARA, Fumitoshi (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(2D3-48, 2D3-49, 2D3-50, 2D3-51, 2D3-52)
- 2D3-48** Arylboration of Aliphatic Alkenes by Cooperative Palladium/Copper Catalysis (Grad. Sch. Eng., Kyoto Univ.) ○OHTAGAKI, Yasuhiro; SEMBA, Kazuhiko; NAKAO, Yoshiaki
- 2D3-49** Regioselective Introduction of a Carbon Chain to Tetrazoles with a Palladium Catalyst and Sulfonyllalenes (Sch. Life Sci. Tech., Tokyo Tech.) ○OKURA, Koki; KOYANAGI, Tetsuya; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
- 2D3-50** Pd-Catalyzed Asymmetric Reactions Using a Chiral-Guest-Responsive Helical Polymer Ligand (Grad. Sch. Eng., Kyoto Univ.) ○KOMATSU, Satoko; MURAKAMI, Ryo; YAMAMOTO, Takeshi; SUGINOME, Michinori
- 2D3-51** Comprehensive Synthesis of Optically Active Diastereomers by Sequential Asymmetric Reactions Using a Chirality-Switchable Helical Polymer Catalyst (Grad. Sch. Eng., Kyoto Univ.) ○AMANO, Takuya; YAMAMOTO, Takeshi; AKAI, Yuto; SUGINOME, Michinori
- 2D3-52** Switching the Regioselectivity in *ortho*-Bromination of Mesoionic 1,3-Diphenyltetrazolium Compounds (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○WATANABE, Harue; HIRASHITA, Tsunechisa; ARAKI, Shuki

Saturday, March 18, AM

Chair: MINAMI, Yasunori (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3D3-01, 3D3-02, 3D3-03, 3D3-04, 3D3-05)
- 3D3-01** Benzoxazole-directed halogen dance of bromofuran (Grad. Sch. Eng., Kobe Univ.) ○MIYAGAWA, Naoki; MURASE, Yuki; OKANO, Kentaro; MORI, Atsunori
- 3D3-02** Palladium-Catalyzed C(sp³)-H Arylation of 2-Methylpyridine Derivatives with Aryl Sulfides (Dep. Chem., Sch. Sci., Kyoto Univ.) ○YAMAMOTO, Keita; GAO, Ke; NOGI, Keisuke; YORIMITSU, Hideki
- 3D3-03#** Pd-Catalyzed Homo-benzannulation of 4-Bromothiazoles for Synthesis of Benzotriazolones (WPI-AIMR, Tohoku Univ.) ○XU, Zhanqiang; YAMAMOTO, Yoshinori; JIN, Tienan
- 3D3-04** Palladium/o-Chloroanil-Catalyzed Homocoupling of Arylsilanes (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○SHIBATA, Mari; ITO, Hideto; ITAMI, Kenichiro
- 3D3-05*** Design of Catalytic Asymmetric Fluorination of β -Ketoesters by Using CoMFA (RIKEN CSRS; Syn. Org. Chem. Lab., RIKEN) ○YAMAGUCHI, Shigeru; SODEOKA, Mikiko

Chair: ITO, Hideto (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3D3-08, 3D3-10, 3D3-11, 3D3-12)
- 3D3-08#** Development of synthetic reactions for exo-bismethylene cycles via C-H bond activation by multiple bonds and palladium catalysts (Research and Development Initiative, Chuo Univ.) ○MINAMI, Yasunori; SAKAI,

Megumi; HIYAMA, Tamejiro

- 3D3-10** Synthesis of Oxyfunctionalized Benzosilole via Intramolecular *anti*-hydroarylation (Grad. Sch. Sci. Eng., Chuo Univ.) ○NOGUCHI, Yuta; MINAMI, Yasunori; HIYAMA, Tamejiro
- 3D3-11** Hydroarylation of alkynes with arenes via aryl C-H bond activation catalyzed by palladium(0) and Brønsted acid (Chuo Univ.) ○FURUYA, Yuki; MINAMI, Yasunori; KODAMA, Tatsuro; HIYAMA, Tamejiro
- 3D3-12[#]** Palladium-Catalyzed Enantioselective Side Chain C(α) Allylation of 2-Alkylazaarenes (Fac. Sci., Hokkaido Univ.) ○MURAKAMI, Ryo; IWAI, Tomohiro; SAWAMURA, Masaya

Chair: IWAI, Tomohiro (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(3D3-15, 3D3-17, 3D3-19)
- 3D3-15[#]** Palladium-Catalyzed Asymmetric Synthesis of Silicon-Stereogenic 5,10-Dihydrophenazasilines via Enantioselective 1,5-Palladium Migration (Grad. Sch. Eng., The Univ. of Tokyo) ○SATO, Yosuke; TAKAGI, Chihiro; SHINTANI, Ryo; NOZAKI, Kyoko
- 3D3-17[#]** Synthesis of Planar Chiral Ferrocene Derivatives through Alkynoxy-Directed C-H Activation/Cyclization (Grad. Sch. Sci. Eng., Chuo Univ.) ○HARAGUCHI, Ryosuke; SUGITA, Kengo; HARADA, Masato; TOKORO, Yuichiro; MINAMI, Yasunori; FUKUZAWA, Shin-ichi; HIYAMA, Tamejiro
- 3D3-19** Palladium-Catalyzed Chemoselective Transformation via Oxidation of Alcohols (Grad. Sch. Eng., Nagasaki Univ.) ○FUJIKAWA, Sara; YONEKURA, Atsushi; MORI, Takamichi; ONODERA, Gen; KIMURA, Masanari

Asian International Symposium -Organic and Green Chemistry-

Saturday, March 18, PM

(13 : 00~13 : 10)

- 3D3-25[#]** Opening Remarks (Gakushuin Univ.) ○Akiyama, Takahiko (13:00~13:10)

Chair: Ito, Toshiyuki (13 : 10~14 : 30)

- 3D3-26[#] Keynote Lecture** Dual-Catalytic Asymmetric Radical Functionalization of Alkenes (South University of Science and Technology of China) ○Liu, Xin-Yuan (13:10~13:40)
- 3D3-29[#] Invited Lecture** Development of Extremely Active Nucleophilic Catalyst for Enantioselective Transformations (Okayama Univ.) ○Mandai, Hiroki (13:40~14:00)
- 3D3-31[#] Keynote Lecture** Prins Cyclization in Natural Product Synthesis (Shanghai Institute of Organic Chemistry) ○Li, Ang (14:00~14:30)

(14 : 30~14 : 40)

- 3D3-34[#]** Computer Setting and Break (14:30~14:40)

Chair: Nakagawa, Yoshiki (14 : 40~15 : 50)

- 3D3-35[#] Keynote Lecture** Aza-heteroaromatic Zwitterions as the New Reactants of Cycloaddition Reactions (Kangwon National University) ○Yoo, Eun Jeong (14:40~15:10)
- 3D3-38[#] Invited Lecture** Asymmetric Copper Catalysis with Phenol-Carbene Chiral Ligands (Hokkaido Univ.) ○Ohmiya, Hirohisa (15:10~15:30)
- 3D3-40[#] Invited Lecture** A Study on Synthetic Transformations Exploiting Light as the Energy Source (Kyoto Univ.) ○Ishida, Naoki (15:30~15:50)

(15 : 50~16 : 00)

- 3D3-42[#]** Computer Setting and Break (15:50~16:00)

Chair: Tomooka, Katsuhiko (16 : 00~17 : 10)

- 3D3-43[#] Keynote Lecture** Carbene Organic Catalysis: Toward New Activation Modes and Rapid Synthesis of Functional Molecules (Nanyang Technological University) ○Chi, Yonggui Robin (16:00~16:30)
- 3D3-46[#] Invited Lecture** Development and Application of Nucleophilic Addition to Amides (Keio Univ.) ○Sato, Takaaki (16:30~16:50)
- 3D3-48[#] Invited Lecture** Fine Design of Photoredox Systems for Catalytic Fluoromethylation (Tokyo Tech) ○Koike, Takashi (16:50~17:10)

(17 : 10~17 : 20)

- 3D3-50[#]** Closing Remarks (Institute for Molecular Science) ○Uozumi, Yasuhiro (17:10~17:20)

Organic Chemistry -Reaction and Synthesis- Organometallic Compounds

Sunday, March 19, AM

Pd

Chair: SUGA, Takuya (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[#]** Remarkable steric effect of carboxylic acid ligands on Pd-catalyzed carbon-hydrogen bond arylation reactions (Grad. Sch. Eng., Kyoto Univ.) ○TANJI, Yutaka; FUJIHARA, Tetsuaki; TERAO, Jun; TSUJI, Yasushi
- 4D3-02** Coordination Copolymerization of Ethylene and 1,1-Disubstituted Ethylenes Using Pd/IzQO Catalysts (Grad. Sch. Eng., The Univ. of Tokyo) ○YASUDA, Hina; NAKANO, Ryo; ITO, Shingo; NOZAKI, Kyoko
- 4D3-03** Pd-Catalyzed synthesis of 6-aza-12-oxaanthanthrene derivatives and their properties (Dept. of Chem. Eng., NNCT) KAMEI, Toshiyuki; ○MATSUYAMA, Naoki; SHIMADA, Toyoshi
- 4D3-04** Palladium-catalyzed synthesis of polyaromatic hydrocarbons (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○KOGA, Yoshito; KANEDA, Takeshi; SAITO, Yutaro; MURAKAMI, Kei; ITAMI, Kenichiro
- 4D3-05** Synthesis of Thioesters through Palladium-Catalyzed Insertion of Isocyanides into Heteroaryl Sulfides (Dep. Chem., Sch. Sci., Kyoto Univ.) ○OTSUKA, Shinya; NOGI, Keisuke; YORIMITSU, Hideki
- 4D3-06** Pd-Catalyzed Borylation of Aryl Sulfonium Salts with Diborons (Dep. Chem., Sch. Sci., Kyoto Univ.) ○MINAMI, Hiroko; OTSUKA, Shinya; NOGI, Keisuke; YORIMITSU, Hideki

Chair: MORIMOTO, Tsumoru (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4D3-08, 4D3-09, 4D3-10, 4D3-11, 4D3-12, 4D3-13)
- 4D3-08** Controllable stereoselective synthesis of homoallylic alcohols by a palladium-catalyzed three-component reaction of 3-pinacoloboryl allyl benzoates, aldehydes, and aryl stannanes (Fac. Eng., Univ. of Toyama) ○MUTSUURA, Itaru; SUGATA, Miki; HORINO, Yoshikazu; ABE, Hitoshi
- 4D3-09** Pd-Mediated Rapid ¹¹C-Cyanation of Arylborenic Acid Derivatives (RIKEN CLST) ZHANG, Zhouen; ○NIWA, Takashi; WATANABE, Yasuyoshi; HOSOYA, Takamitsu
- 4D3-10** Palladium-catalyzed direct coupling of benzothiophenes and electron-rich aryl bromides (Graduate School of Engineering, Osaka University) ○ITAI, Yuhei; ICHIOKA, Fumiki; NISHII, Yuji; MIURA, Masahiro
- 4D3-11[#]** Palladium-Catalyzed Asymmetric Benzylic Substitution of Secondary Benzyl Carbonates with Nitrogen and Oxygen Nucleophiles (Grad. Sch. Eng., Osaka Univ.) ○NAJIB, Atifah; HIRANO, Koji; MIURA, Masahiro
- 4D3-12** Palladium-Catalyzed Formylation of Arylzinc Reagents with S-Phenyl Thiophosphate (Grad. Sch. Sci. Eng., Chuo Univ.) HARAGUCHI, Ryosuke; ○TANAZAWA, Sho-go; FUKUZAWA, Shin-ichi
- 4D3-13** P-C cross-coupling reaction of aryl bromides and triflates (Grad. Sch. Sci., Eng., Ehime Univ.) ○XUE, Qian; OHTA, Hidetoshi; HAYASHI, Minoru

Chair: FUJIHARA, Tetsuaki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4D3-15, 4D3-16, 4D3-17, 4D3-18, 4D3-19, 4D3-20)
- 4D3-15** Palladium(0)-Catalyzed Carbonylative Coupling Reactions of Aryl Halides Using Photodecarbonylation of an α -Diketone (Grad. Sch. Mat. Sci., NAIST) MORIMOTO, Tsumoru; ○UEDA, Tatsuya; YAMADA, Hiroko; KAKIUCHI, Kiyomi
- 4D3-16[#]** Catalytic Asymmetric Synthesis of C₂-Symmetric Axially Chiral Allenes by Palladium-Catalyzed Double-Nucleophilic Substitution on 3-Bromopenta-2,4-dienyl Esters (Grad. Sch. Sci. Tech., Tokushima Univ.; Grad. Sch. Life Sci., Hokkaido Univ.) ○CHEN, Yen-chou; OGASAWARA, Masamichi
- 4D3-17** Synthesis of tetrasubstituted olefins by the palladium-catalyzed amination through the intramolecular construction of trifluoromethyl group (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○OTAKE, Keisuke; HANAKAWA, Taisyun; ISA, Kazuki; KAWATSURA, Motoi
- 4D3-18** Intramolecular construction of trifluoromethyl group in the palladium-catalyzed reaction of fluorine-containing allylic carbonates with oxygen nucleophiles (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○HOSHINO, Yuji; HANAKAWA, Taisyun; ISA, Kazuki; KAWATSURA, Motoi
- 4D3-19** Palladium-catalyzed reaction of 2,3,3-trifluoroallylic carbonates with aryl boronic acids (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○TAKEHARA, Ikuma; HANAKAWA, Taisyun; ISA, Kazuki; KAWATSURA, Motoi
- 4D3-20** Palladium-Catalyzed One-Shot Annulative π -Extension of Aromatic Compounds (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○MATSUOKA, Wataru; ITO, Hideto; ITAMI, Kenichiro

Room D4

Fourth Building Independence Wing
D202Organic Chemistry - Reaction and Synthesis-
Organometallic Compounds

Thursday, March 16, AM

Ni

Chair: OOHASHI, Masato (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1D4-01, 1D4-02, 1D4-03, 1D4-05, 1D4-06)

1D4-01 Synthesis of β -Keto Acid via Nickel-Catalyzed Three-Component Coupling of Cyclic Carbonate, Alkyne, and Organoaluminum (Grad. Sch. Eng., Nagasaki Univ.) OMASUCHI, Ryusei; NINOKATA, Ryo; YAMAHIRA, Tatsuya; ONODERA, Gen; KIMURA, Masanari

1D4-02 Ni-Catalyzed Three-Component Coupling Reaction of Cyclic Carbamate, Alkyne, and Organoaluminum (Grad. Sch. Eng., Nagasaki Univ.) OYAMAHIRA, Tatsuya; NINOKATA, Ryo; ONODERA, Gen; KIMURA, Masanari

1D4-03** Photo-Induced Arylation of Benzylic C-H Bonds Catalyzed by Nickel (Grad. Sch. Eng., Kyoto Univ.) OMASUDA, Yusuke; ISHIKAWA, Norikazu; ISHIDA, Naoki; MURAKAMI, Masahiro

1D4-05 Photo-induced carboxylation of benzylic C-H bonds with carbon dioxide promoted by ketone/nickel cocatalysis (Grad. Sch. Eng., Kyoto Univ.) OIMAMURA, Yuuya; MASUDA, Yusuke; ISHIDA, Naoki; MURAKAMI, Masahiro

1D4-06 Nickel-catalyzed Cyanation of Aryl Halides in the Presence of Organosilicon Reductant (Grad. Sch. Eng. Sci., Osaka Univ.) OUEDA, Yohei; YURINO, Taiga; TSURUGI, Hayato; MASHIMA, Kazushi

Chair: ONODERA, Gen (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1D4-08, 1D4-10, 1D4-12, 1D4-13)

1D4-08* Ni(0)-catalyzed highly-selective cross-tetramerization reaction of tetrafluoroethylene with unsaturated compounds (Grad. Sch. Eng., Osaka Univ.) OKAWASHIMA, Takuya; KIKUSHIMA, Kotaro; OHASHI, Masato; OGOSHI, Sensuke

1D4-10** Enantioselective Desymmetrization Strategy by Oxidative Cyclization on Nickel: Expedient Access to Fused Tricyclic Scaffolds (Grad. Sch. Eng., Osaka Univ.) OKUMAR, Ravindra; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke

1D4-12 Nickel-Catalyzed Cross-Coupling of Aryl Fluorides with Primary Amines (Fac. Sci., Hokkaido Univ.) OHARADA, Tomoya; IWAI, Tomohiro; SAWAMURA, Masaya

1D4-13 Ni(0)-Catalyzed Enantioselective [2+2+1] Cycloaddition of Imines and Alkenes with Carbon Monoxide (Grad. Sch. Eng., Osaka Univ.) OASHIDA, Keita; SASAOKA, Yukari; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke

Chair: ISHIDA, Naoki (11 : 20 ~ 12 : 10)

* 11:10-11:20: interval for laptop PC connection.(1D4-15, 1D4-16, 1D4-17, 1D4-18, 1D4-19)

1D4-15 Allylic C-N bond Cleavage Catalyzed by Nickel Complexes to Construct Quaternary Chiral Carbon Center (Sch. Eng. Sci., Osaka Univ.) OSHOJI, Koya; HIGASHIDA, Kosuke; NAGAE, Haruki; MASHIMA, Kazushi

1D4-16* Nickel-Catalyzed Hydrogenolysis of Diarylamines with Hydrosilane (Grad. Sch. Eng., Kyoto Univ.) OHOGI, Akito; ALASTAIR, Herron; YAMAMOTO, Shunya; NAKAO, Yoshiaki

1D4-17 Development of Nickel catalyzed C-C bond forming reaction of aryl halide and aldehyde (Gifu Pharm. Univ.) OISHIDA, Seima; YAMAGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika

1D4-18* Ni-Catalyzed Reductive Coupling of Conjugated Diene and Carbon Dioxide (Grad. Sch. Eng., Nagasaki Univ.) OLUO, Ying; MORI, Yasuyuki; ONODERA, Gen; KIMURA, Masanari

1D4-19 Nickel-catalyzed multicomponent reaction of perfluoroarenes, aryl Grignard reagents, and two molecules of 1,3-butadiene and its mechanistic study (Grad. Sch. Eng., Osaka Univ.) OYOKOYAMA, Wataru; FUKUOKA, Asuka; MIN, Xin; IWASAKI, Takanori; KUNIASU, Hitoshi; KAMBE, Nobuaki

Thursday, March 16, PM

Fe

Chair: MASHIMA, Kazushi (14 : 40 ~ 15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1D4-35)

1D4-35* CSJ Award for Creative Works Studies on Selective Syn-

thetic Organic Reactions Catalyzed by Iron (ICR, Kyoto Univ.) ONAKAMURA, Masaharu

Chair: OGASAWARA, Masamichi (15 : 50 ~ 16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1D4-42, 1D4-43, 1D4-44, 1D4-45, 1D4-46, 1D4-47)

1D4-42* Iron-Catalyzed Oxyalkylation of Styrenes Using Hypervalent Iodine Reagents (Grad. Sch. Pharm., The Univ. of Tokyo) OWANG, Zijia; KANAI, Motomu; KUNINOBU, Yoichiro

1D4-43 Iron-Catalyzed Enantioselective Synthesis of α -Arylpropionic Acid Derivatives (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) OKUZONO, Chiemi; IWAMOTO, Takahiro; ADAK, Laksmikanta; JIN, Masayoshi; TAKAYA, Hikaru; NAKAMURA, Masaharu

1D4-44 Borylation Catalyzed by Iron Complexes Bearing PNP-Type Pincer Ligand Based on Pyrrole Skeleton (Grad. Sch. Eng., The Univ. of Tokyo) OKATO, Takeru; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

1D4-45 Iron-Catalyzed C-H/Olefin Coupling of Aromatic Ketones (Fac. Sci. Tech., Keio Univ.) OKIMURA, Naoki; KOCHI, Takuya; KAKIUCHI, Fumitoshi

1D4-46 Withdrawn

1D4-47 Iron-Catalyzed Alkyl-Alkyl Coupling with Organoaluminum Reagents (ICR, Kyoto Univ.) OAGATA, Ryosuke; KAWAMURA, Shintaro; NAKAMURA, Masaharu

Chair: TAKAYA, Hikaru (17 : 00 ~ 18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1D4-49, 1D4-50, 1D4-51, 1D4-52, 1D4-53, 1D4-54)

1D4-49* Iron-Catalyzed Synthesis of Indenones through Cyclization of Carboxamides with Alkynes (Grad. Sch. Sci., The Univ. of Tokyo) OILIES, Laurean; ARSLANOGLU, Yasin; MATSUBARA, Tatsuki; NAKAMURA, Eiichi

1D4-50* Coupling of Aromatic Carbonyl Compounds with Alkynes via Iron-Catalyzed C-H Activation (Grad. Sch. Sci., The Univ. of Tokyo) OGO, Toki; SHANG, Rui; ILIES, Laurean; NAKAMURA, Eiichi

1D4-51 Synthesis and Application of Novel Chiral Phosphine Ligands with Ferrocenylphosphino Donor Moieties (Grad. of Sci. Tech., Tokushima Univ.; Grad. Sch. Life Sci., Hokkaido Univ.) OHU, Hao; SEKI, Naoki; OGASAWARA, Masamichi

1D4-52 Enantioselective Synthesis of Metallocene-Fused Planar-Chiral 4-Dialkylaminopyridine Derivatives and Their Applications (1) (Grad. Sch. Sci., Chiba Univ.; Grad. Sch. Sci. Tech., Tokushima Univ.; Grad. Sch. Life Sci., Hokkaido Univ.) OKIMURA, Ryosuke; LIU, Qiang; WADA, Shiro; OGASAWARA, Masamichi; YOSHIDA, Kazuhiro

1D4-53 Enantioselective Synthesis of Metallocene-Fused Planar-Chiral 4-Dialkylaminopyridine Derivatives and Their Applications (2) (Grad. Sch. Sci. Tech., Tokushima Univ.; Grad. Sch. Life Sci., Hokkaido Univ.; Grad. Sch. Sci., Chiba Univ.) OLIU, Qiang; KIMURA, Ryosuke; WADA, Shiro; YOSHIDA, Kazuhiro; OGASAWARA, Masamichi

1D4-54* Iron-Catalyzed Oxidative Cross-Coupling of Two sp² C-H Bonds (Fac. Sci., The Univ. of Tokyo) ODOBA, Takahiro; MATSUBARA, Tatsuki; ILIES, Laurean; NAKAMURA, Eiichi

Chair: ILIES, Laurean (18 : 10 ~ 18 : 50)

* 18:00-18:10: interval for laptop PC connection.(1D4-56, 1D4-57, 1D4-58, 1D4-59)

1D4-56 Development of a novel reaction using different C1-substituted diene-iron complex (Grad. Sch. Eng., KIT) OBANDO, Kotaro; KITAMURA, Mitsuru; OKAUCHI, Tatsuo

1D4-57 Iron-catalyzed Regio- and Stereoselective Substitution of 2,4-Dienyl Carboxylates with Aryl Grignard Reagents. (Sch. Life Sci. Tech., Tokyo Tech.) MIYANAKA, Kento; OHARADA, Tomona; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu

1D4-58* Development of Enantioselective Reactions Using Fe Catalysts (ISIR, Osaka Univ.) OYONEYAMA, Shin; NIIDA, Yasuaki; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki

1D4-59 Synthesis of diazaporphyrin iron complexes and application to catalytic oxidation of alkanes (Grad. Sch. Eng., Nagoya Univ.) ONISHIMURA, Tsubasa; MIYAKE, Yoshihiro; SHINOKUBO, Hiroshi

Friday, March 17, AM

Cu

Chair: HIRANO, Koji (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2D4-01, 2D4-02, 2D4-03, 2D4-05, 2D4-06)

2D4-01 Copper-Catalyzed Boraacylation of Allenes Using Diborones and Carboxylic Anhydride (Grad. Sch. Eng., Kyoto Univ.) OSAWADA, Ayumi; FUJIHARA, Tetsuaki; TERAOKA, Jun; TSUJI, Yasushi

2D4-02 Cu-Catalyzed Stereoselective Synthesis of Acrylic Acid Derivatives from Terminal Alkynes, Organoboranes, and Carbon Dioxide (Grad. Sch. Eng., Nagasaki Univ.) OFUJITA, Yuki; KUGE, Kentar; MORI, Yasuyuki; ONODERA, Gen; KIMURA, Masanari

2D4-03** Cross-coupling of Aryl(trialkyl)silanes (Grad. Sch. Sci. Eng., Chuo Univ.) OKOMIYAMA, Takeshi; MINAMI, Yasunori; HIYAMA, Tamejiro

- 2D4-05** Copper catalyzed tertiary-alkylative Sonogashira couplings (Fac. Eng., Yamaguchi Univ.) ○MIWA, Naoki; YAMANE, Yu; NISHIKATA, Takashi
- 2D4-06** Copper-catalyzed tertiary-alkyl-nitrogen bond formations (Fac. Eng., Yamaguchi Univ.) NISHIKATA, Takashi; ISHIDA, Syo; ○TAKEUCHI, Kentaro

Chair: MINAMI, Yasunori (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2D4-08, 2D4-09, 2D4-10, 2D4-12)
- 2D4-08** Copper-Catalyzed Regioselective Aminoboration of Unactivated Terminal Alkenes (Grad. Sch. Eng., Osaka Univ.) ○KATO, Kodai; HIRANO, Koji; MIURA, Masahiro
- 2D4-09** A divergent approach to indoles and oxazoles from Enamides by Directing-Group-Controlled Copper-Catalyzed Intramolecular C-H Amination and Alkoxylation (Graduate School of Engineering, Osaka University) ○YAMAMOTO, Chiaki; HIRANO, Koji; MIURA, Masahiro
- 2D4-10**[#] Copper-Mediated Decarboxylative Coupling of Benzamides with Benzoic Acids via Directed C-H Cleavage (Grad. Sch. Eng., Osaka Univ.) ○TAKAMATSU, Kazutaka; HIRANO, Koji; MIURA, Masahiro
- 2D4-12**[#] Copper-Catalyzed Enantioselective Boracarbonylation of Vinylarenes with Carbon Dioxide and Diboron (Organometallic Chemistry Laboratory, RIKEN) ○ZHANG, Liang; LUO, Yong; CHENG, Jianhua; CARRY, Beatrice; HOU, Zhaomin

Fe

Chair: IWASAKI, Takanori (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(2D4-15, 2D4-17, 2D4-19)
- 2D4-15**[#] Development of Iron-Catalyzed C-H Borylation of 2-Phenylpyridines and Their Analogues and Optical Properties of The Products (Grad. Sch. Pharm., The Univ. of Tokyo) ○YOSHIGOE, Yusuke; KUNINOBU, Yoichiro
- 2D4-17**[#] Group VIII Metal-Mediated Amination of Unsaturated Carbon-Carbon Bonds Utilizing Oxime Esters (Grad. Sch. Eng., Kyoto Univ.) ○SHIMBAYASHI, Takuya; OKAMOTO, Kazuhiro; OHE, Kouichi
- 2D4-19** The Novel Synthetic Method Using Tricarbonyl (Vinylketenimine) iron Complexes (Grad. Sch. Eng., KIT) ○TABUCHI, Nagomi; URAKAWA, Akihiro; KITAMURA, Mitsuru; OKAUCHI, Tatsuo

Friday, March 17, PM

Chair: OKAMOTO, Kazuhiro (13 : 20~14 : 20)

- * 13:10-13:20: interval for laptop PC connection.(2D4-27, 2D4-28, 2D4-29, 2D4-30, 2D4-31, 2D4-32)
- 2D4-27**[#] Chemoselective N-Arylation of Diarylamines Catalyzed by Iron (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○AOKI, Yuma; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 2D4-28**[#] One-Pot Synthesis of Dihydrophenazines by Iron-Catalyzed Tandem C-F Amination Reactions (Grad. Sch. Eng., Kyoto Univ.) ○AOKI, Yuma; O'BRIEN, Harry; TAKAYA, Hikaru; NAKAMURA, Masaharu

Ni

- 2D4-29**[#] Nickel-Mediated Decarbonylation of Aromatic Ketones through the Cleavage of a Carbon-Carbon Bond (Grad. Sch. Eng., Osaka Univ.) TOBISU, Mamoru; ○MORIOKA, Toshifumi; NISHIZAWA, Akihiro; CHATANI, Naoto
- 2D4-30** Nickel-Catalyzed Decarboxylative Amination of Aryl Carbamates Using a Polystyrene-Cross-Linking Bisphosphine Ligand (Grad. Sch. Eng., Osaka Univ.; Grad. Sch. Eng., Osaka Univ.) TOBISU, Mamoru; ○NISHIZAWA, Akihiro; TAKAHIRA, Tsuyoshi; IWAI, Tomohiro; SAWAMURA, Masaya; CHATANI, Naoto
- 2D4-31** Nickel-Catalyzed Oxidative Cycloaddition of Aromatic Amides with Alkynes (Faculty of Engineering, Osaka University) ○OBATA, Atsushi; CHATANI, Naoto
- 2D4-32**[#] Nickel-Catalyzed Alkene-Alkene-Silylene [2+2+1] Cycloaddition with Use of (Aminosilyl)boronic Esters as a Synthetic Equivalent of Silylene (Grad. Sch. Eng., Kyoto Univ.) OHMURA, Toshimichi; ○SASAKI, Ikuo; SUGINOME, Michinori

Chair: TAKAYA, Hikaru (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(2D4-34, 2D4-36, 2D4-38)
- 2D4-34**[#] Ni(0)-Catalyzed Intramolecular Reductive Coupling of Carbonyl Compounds with Alkenes (Grad. Sch. Eng., Osaka Univ.) ○HAYASHI, Yukari; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke
- 2D4-36**[#] Three-Component Coupling Reaction of Tetrafluoroethylene and Aldehydes with Hydrosilanes via Oxa-Nickelacycle (Grad. Sch. Eng., Osaka Univ.) ○SHIRATAKI, Hiroshi; KIKUSHIMA, Kotaro; OHASHI, Masato; OGOSHI, Sensuke
- 2D4-38**[#] From Stoichiometry to Catalysis: Hydrocarboxylation of Ynamides with Nickel Complex Employing CO₂ (Grad. Sch. Pharm., Hokkaido Univ.) ○ABDULLAH, Iman; DOI, Ryohei; SAITO, Nozomi; SATO, Yoshihiro

Chair: HOSHIMOTO, Yoichi (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(2D4-41, 2D4-43, 2D4-45)
- 2D4-41**[#] A Phosphine Cross-Linked Method for Producing Highly Active Heterogeneous Transition Metal Catalysts (Fac. Sci., Hokkaido Univ.) ○IWAI, Tomohiro; HARADA, Tomoya; SHIMADA, Hajime; ASANO, Kiichi; ZHANG, Deliang; CHIBA, Shigenori; SAWAMURA, Masaya
- 2D4-43**[#] Development of Catalytic Decarbonylative Transformations of Aromatic Esters (Sch. Advanced Sci. Eng., Waseda Univ.; Grad. Sch. Sci., Nagoya Univ.) ○TAKISE, Ryosuke; OKITA, Toshimasa; ISSHIKI, Ryota; KUMAZAWA, Kazushi; ITAMI, Kenichiro; MUTO, Kei; YAMAGUCHI, Junichiro
- 2D4-45**[#] Ni-Catalyzed Multicomponent Coupling Reaction of Alkene, Carbon Dioxide, and Organoaluminum Reagent (Grad. Sch. Eng., Nagasaki Univ.) ○MORI, Yasuyuki; SHIGENO, Chieko; ONODERA, Gen; KIMURA, Masanari

Chair: IWASAKI, Takanori (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(2D4-48, 2D4-49, 2D4-50, 2D4-51, 2D4-52)
- 2D4-48**[#] Tetraarylglycols as Recyclable Reductants for Reductive Coupling of Organic Halides (Grad. Sch. Eng., Kyoto Univ.) ○SUN, Fangzhu; MASUDA, Yusuke; ISHIDA, Naoki; MURAKAMI, Masahiro
- 2D4-49** Stereoselective Synthesis of Allyl Amine via Aza-aldol Condensation of Boron Aza-enolate with Aldehyde (Grad. Sch. Eng., Kyoto Univ.) ○MIYAKAWA, Sho; NAKAMURO, Takayuki; MIURA, Tomoya; MURAKAMI, Masahiro
- 2D4-50** Synthesis of formimides and aldehydes through nickel-catalyzed three-component coupling of isocyanides, hydrosilanes, and alkyl halides (Fac. Sci., Hokkaido Univ.) ○UENO, Masato; HOJOH, Kentaro; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 2D4-51** Catalytic Synthesis of Acrylic Acid from Ethylene and CO₂ by using N-Phosphinomethyl-Substituted NHC-Nickel (0) Complex (Grad. Sch. Sci., Eng., Tokyo Tech.) ○CHO, Kinryo; YAMADA, Ryosuke; ITO, Tatsuyoshi; TAKAHASHI, Kohei; IWASAWA, Nobuharu
- 2D4-52**[#] *para*-Selective Alkylation of *N*-substituted Anilides by Cooperative Nickel/Aluminum Catalysis (Grad. Sch. Eng., Kyoto Univ.) ○OKUMURA, Shogo; SHIGEKI, Erika; NAKAO, Yoshiaki

Saturday, March 18, AM

Cu

Chair: NAKAJIMA, Kazunari (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3D4-01, 3D4-02, 3D4-03, 3D4-04, 3D4-06)
- 3D4-01** Chemical Modification of Biomolecules with a Cyclooctyne-Copper Complex (IBB, Tokyo Med. and Dental Univ.; RIKEN CLST) ○YOSHIDA, Suguru; KURIBARA, Tomoko; ITO, Harumi; KII, Isao; HATAKEYAMA, Yasutomo; KARAKI, Fumika; HOSOYA, Takamitsu
- 3D4-02** Sequential Conjugations Based on Selective Alkyne-Copper Complexation of a Platform Molecule Bearing Two Cycloalkynes (IBB, Tokyo Med. and Dental Univ.) ○MAKIO, Naoki; YOSHIDA, Suguru; IGAWA, Kazunobu; TOMOOKA, Katsuhiko; HOSOYA, Takamitsu
- 3D4-03** Synthesis of Monofluoroalkenes via Cu-Catalyzed Regioselective Defluoroborylation of *gem*-Difluoroalkenes (RIKEN CLST) ○UETAKE, Yuta; NIWA, Takashi; HOSOYA, Takamitsu
- 3D4-04**[#] Experimental and computational investigations on the enantioselective alkylation of α -ketoesters via copper catalysis (Coll. Sci., Ibaraki Univ.) ○SCHWARZER, Martin Christoph; ISCHII, Takaoki; OHMIYA, Hirohisa; SAWAMURA, Masaya; MORI, Seiji

B

- 3D4-06** Transition-Metal-Free α -Aminoalkylation of Organic Halides Using α -Aminoalkylboron Reagents (Grad. Sch. Eng., Kyoto Univ.) OHMURA, Toshimichi; ○SUGIHARA, Kousuke; SUGINOME, Michinori

Chair: YASUDA, Makoto (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**[#] Organocatalytic Silaboration of Alkynes through Activation of Boron-Silicon Bond by Pyridines (Grad. Sch. Eng., Kyoto Univ.) ○MORIMASA, Yohei; OHMURA, Toshimichi; SUGINOME, Michinori
- 3D4-09** Platinum-Catalyzed Regioselective Diboration of Alkynes with an Unsymmetrical Diboron Bearing an Anthranilamide Substituent (Grad. Sch. Eng., Hiroshima Univ.; Fac. Sci. Eng., Iwate Univ.) YOSHIDA, Hiroto; ○KAGEYUKI, Ikuo; OSAKA, Itaru; KORENAGA, Toshinobu
- 3D4-10** Palladium-Catalyzed Borylation of Aryl Halides with an Unsymmetrical Diboron Bearing an Anthranilamide Substituent (Grad. Sch. Eng., Hiroshima Univ.) YOSHIDA, Hiroto; ○KAMIO, Shintaro; KAGEYUKI, Ikuo; OSAKA, Itaru
- 3D4-11** Copper-Catalyzed Highly Regioselective Formal Hydroboration of Terminal Alkynes with an Unsymmetrical Diboron Bearing an Anthranilamide Substituent (Grad. Sch. Eng., Hiroshima Univ.) YOSHIDA, Hiroto; ○TSUSHIMA, Takumi; KAGEYUKI, Ikuo; OSAKA, Itaru

In

- 3D4-12** Indium-catalyzed Mannich-Type Reaction of *N*-Aryl Glycine Ester (Dep. Chem., Sch. Sci., Kyoto Univ.) OOKAMURA, Izumi; PARK, Soyung; SUGIYAMA, Hiroshi
- 3D4-13** Synthesis and Photochemical Reactions of Organoindium Tetraphenylporphyrin Complexes (Grad. Sch. Eng., Nagoya Inst. of Tech.) OCHANAMURA, Koki; HIRASHITA, Tsunehisa; ARAKI, Shuki

Chair: YOSHIDA, Suguru (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(3D4-15, 3D4-17)

- 3D4-15**** Synthesis of Isocoumarin by Intramolecular Oxyindation of Alkynes with Indium Triiodide (Grad. Sch. Eng., Osaka Univ.) OKITA, Yuji; NISHIMOTO, Yoshihiro; YASUDA, Makoto
- 3D4-17** Young Scholar Lectures of CSJ Development of Carbometallation by Heavier Main-Group Metals with Moderate Lewis Acidity and High π -Electron Affinity (Grad. Sch. Eng., Osaka Univ.) ONISHIMOTO, Yoshihiro

Saturday, March 18, PM

Zn

Chair: CHATANI, Naoto (13 : 20~14 : 20)

* 13:10-13:20: interval for laptop PC connection.(3D4-27)

- 3D4-27#** CSJ Award for Creative Works Development of Novel Molecular Transformations Based on Molecular Recognition and Reaction Integration Using Methylene Dizinc Species (Grad. Sch. Eng., Kyoto Univ.) OMATSUBARA, Seijiro

Cu

Chair: FUJIHARA, Tetsuaki (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(3D4-34, 3D4-35, 3D4-36, 3D4-37, 3D4-38, 3D4-39)

- 3D4-34** Synthesis of chiral MOF using (*R*)-BINOL-3,3'-dibenzoic acid and its application to asymmetric catalyst and enantiomer separation. (Fac. Chem. Materials and Bioeng., Kansai Univ.) OUNO, Ryosuke; TANAKA, Koichi
- 3D4-35** Asymmetric ring-opening reaction with aniline derivative in the presence of chiral MOF derived from (*R*)-BINOL-6,6'-dicarboxylic acid. (Fac. Chem. Materials and Bioeng., Kansai Univ.) OUZAKI, Takayuki; TANAKA, Koichi
- 3D4-36** Substituent effect at meta position of copper catalyzed 1,3-alkoxy rearrangement of *N*-alkoxyaniline (Grad. Sch. Sci., Tohoku Univ.; Grad. Sch. Sci., Tohoku Univ.) OTASHIRO, Hiroki; JO, Takeru; ISHIDA, Yasuhiro; NAKAMURA, Itaru; TERADA, Masahiro
- 3D4-37** Copper-Catalyzed Domino Rearrangement Reaction of *ortho*-alkyl substituted *N*-Alkoxy Anilines (Grad. Sch. Sci., Tohoku Univ.) OISHIDA, Yasuhiro; NAKAMURA, Itaru; TERADA, Masahiro
- 3D4-38** Enantioselective Diels-Alder reaction using homochiral MOF as heterogeneous catalyst (Fac. Chem. Materials and Bioeng., Kansai Univ.) OUEBAYASHI, Yutaro; ANAMI, Taku; TANAKA, Koichi; LIPKOWSKA, Zofia
- 3D4-39** Asymmetric ring opening of cyclohexene oxide with aniline derivatives in the presence of homochiral MOF derived from (*R*)-BINOL-5,5'-dicarboxylic acid (Fac. Chem. Materials and Bioeng., Kansai Univ.) OKINOSHITA, Maya; TANAKA, Koichi

Chair: NAKAMURA, Itaru (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(3D4-41, 3D4-42, 3D4-43, 3D4-44, 3D4-45, 3D4-46)

- 3D4-41#** Synthesis of 1,3-Azaphosphole Derivatives Based on Copper-Catalyzed [3+2] Cycloaddition Reactions of Phosphaalkynes with Isoyanides (Grad. Sch. Eng., The Univ. of Tokyo) OLIANG, Wenbin; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 3D4-42** Development and Theoretical Investigations of Cross-coupling Reaction for Bulky Substrates Based on Characteristics of Copper Reagents (Grad. Sch. Pharm., The Univ. of Tokyo; RIKEN CSRS) OOI, Miku; OTSUKA, Mai; KANAZAWA, Junichiro; TAKITA, Ryo; UCHIYAMA, Masanobu
- 3D4-43** Synthesis of α -quaternary formimides and aldehydes through copper-catalyzed asymmetric three-component coupling reaction of isocyanides, hydrosilanes, and allylic electrophiles (Fac. Sci., Hokkaido Univ.) HOJOH, Kentaro; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 3D4-44** Intramolecular Cyclization of Functionalized ω -Iodoalkenes Affording Cyclopropanes (Sch. Life Sci. Tech., Tokyo Tech.) NARIAI, Satoru; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
- 3D4-45#** Synthesis of bulky carboxylic acids bearing poly(ethylene)glycol chains and their use in catalysis (Grad. Sch. Eng., Kyoto Univ.) OSATOU, Motoi; FUJIHARA, Tetsuaki; TERAU, Jun; TSUJI, Yasushi
- 3D4-46#** Copper-catalyzed [4+2] cycloaddition using 2-pyridylketimines and terminal alkynes (Grad. Sch. Eng., Kyoto Univ.) OTATSUMI, Kenta; FUJIHARA, Tetsuaki; TERAU, Jun; TSUJI, Yasushi

Chair: HATA, Takeshi (16 : 50~17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(3D4-48, 3D4-49, 3D4-50, 3D4-51, 3D4-53)
- 3D4-48** Copper-Catalyzed Asymmetric Cyclopropanation Reaction with Helically Chiral Polyquinoxaline-based Bipyridine Ligand (Grad. Sch. Eng., Kyoto Univ.) OYOSHINAGA, Yukako; YAMAMOTO, Takeshi; SUGINOME, Michinori
- 3D4-49** Divergent Synthesis of (*E*)- and (*Z*)- β -Monofluoroalkene through Copper(I) Catalysis (FCC, Hokkaido Univ.) OKOJIMA, Ryoto; KUBOTA, Koji; ITO, Hajime
- 3D4-50** Copper-Mediated Synthesis of Aryl Tetrafluoroethyl Ether Derivatives through Oxycupration of Tetrafluoroethylene (Grad. Sch. Eng., Osaka Univ.) OKIKUSHIMA, Kotaro; ADACHI, Takuya; OHASHI, Masato; OGOSHI, Sensuke

Pt

- 3D4-51**** Reaction of Olefins with Phenylplatinum Complexes Supported by Mixed Donor Ligands (Grad. Sch. Eng., The Univ. of Tokyo) OPAL, Shrinwantu; KUSUMOTO, Shuhei; NOZAKI, Kyoko
- 3D4-53#** Platinum-Catalyzed Borylation of Aromatic Carbon-Hydrogen Bonds at the Congested Position (Grad. Sch. Eng., Osaka Univ.) TOBISU, Mamoru; OFURUKAWA, Takayuki; CHATANI, Naoto

Rh

Chair: MAKIDA, Yusuke (18 : 00~18 : 50)

- * 17:50-18:00: interval for laptop PC connection.(3D4-55, 3D4-56, 3D4-57, 3D4-59)
- 3D4-55** Rhodium-Catalyzed Asymmetric [2+2+2] Cycloaddition of 1,6-Diynes with Acenaphthylene (Sch. Mater. & Chem. Tech., Tokyo Tech.) OIDA, Yukimasa; SHIBATA, Yu; TANAKA, Ken
- 3D4-56** Rhodium-Catalyzed Asymmetric Cyclizations of 1,6-Enynes with Aliphatic Alkenes (Sch. Mater. & Chem. Tech., Tokyo Tech.) OUEDA, Hiroki; MASUTOMI, Koji; SHIBATA, Yu; TANAKA, Ken
- 3D4-57**** Construction of Stereogenic Silicon Centers by Rhodium-Catalyzed Cycloisomerization Involving 1,2-Silicon/1,3-Carbon Migration (Sch. Mater. & Chem. Tech., Tokyo Tech.) ONAMBA, Tomoya; SHIBATA, Yu; TANAKA, Ken
- 3D4-59** Rhodium-Catalyzed Transformation of Allylbenzene Derivatives via Carbon-Carbon Bond Cleavage (Fac. Sci. Tech., Keio Univ.) ONODERA, Shunsuke; KOCHI, Takuya; KAKIUCHI, Fumitoshi

Sunday, March 19, AM

Sr

Chair: KIKUSHIMA, Kotaro (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** Preparation of Metallacycle Intermediates Using Metallic Strontium and Its Application for New Reaction (Fac. Integrated Arts Sci., Tokushima Univ.) ONISHIZAWA, Takahiro; KITAKATA, Saki; OHMURA, Satoshi; UENO, Masaharu; MIYOSHI, Norikazu
- 4D4-02** Development of a new synthetic method using strontium alkoxide (Fac. Integrated Arts and Sci., Tokushima Univ. Grad. Sch.) OSHIMODA, Ryosuke; ABIRU, Honami; KOMATSU, Sho; OHMURA, Satoshi; UENO, Masaharu; MIYOSHI, Norikazu

Cu

- 4D4-03#** Development of New Mono-*N*-Alkylation of Amides by using Disilyl Peroxides (Dep. Chem., Sch. Sci., Kyoto Univ.) OSAKURAI, Shunya; SAKAMOTO, Ryu; MARUOKA, Keiji
- 4D4-04** Cu-Catalyzed C-H Arylation of *peri*-xanthenoxanthenes (Dept. of Chem. Eng., NNCT) KAMEI, Toshiyuki; ONISHINO, Soshi; SHIMADA, Toyoshi
- 4D4-05** Sulfenamide Synthesis via Copper-Catalyzed Coupling of Thiosulfonates with Amines (Sch. of Med., Fukushima Med. Univ.) OTANIGUCHI, Nobukazu
- 4D4-06** Chiral Bicyclic NHC/Cu Complexes for Copper Catalyzed Enantioselective β -Boration of α, β -Unsaturated Ester (Grad. Sch. Sci., Chiba Univ.) OSATO, Kiyooki; KAMIMURA, Takumi; YOSHIDA, Kazuhiro

Chair: UENO, Masaharu (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** Copper-catalyzed Odorless Thiolation of Terminal Alkynes Using Thiosulfonates (IBB, Tokyo Med. and Dental Univ.) OKANEMOTO, Kazuya; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 4D4-09** Facile Synthesis of Multisubstituted Thioxanthenes Using Copper-Catalyzed Thiolation and Application to the Development of Organic Field Effect Transistors (IBB, Tokyo Med. and Dental Univ.; JNC Petrochemical Corporation) OMUTSUURA, Kotaro; UCHIDA, Keisuke; MATSUSHITA, Takeshi; KONDO, Masakazu; YAMANASHI, Yusuke;

- TAKAHASHI, Akira; YOSHIDA, Suguru; HOSOYA, Takamitsu
4D4-10 Electrophilic Amidation using *N*-Methoxyamides (Grad. Sch. Sci. Tech., Keio Univ.) ○BANJO, Shona; MEGURO, Tatsuhiro; NAKASUJI, Eiko; SATO, Takaaki; CHIDA, Noritaka
4D4-11 Development of Planar Chiral Six-Membered Cyclic (Amino)(ferrocenyl)carbene Ligands (Grad. Sch. Sci., Chiba Univ.) ○MIYAUCHI, Masaru; YASUE, Risa; YOSHIDA, Kazuhiro
4D4-12 Synthesis and Application of Planar Chiral Seven-Membered Cyclic (Amino)(ferrocenyl)carbene Copper Complexes (Grad. Sch. Sci., Chiba Univ.) ○YASUE, Risa; MIYAUCHI, Masaru; YOSHIDA, Kazuhiro
4D4-13 Transmetalation of Planar Chiral Seven-Membered Cyclic (Amino)(ferrocenyl)carbene Copper Complexes (Grad. Sch. Sci., Chiba Univ.) ○SHIKATA, Yuta; YASUE, Risa; YOSHIDA, Kazuhiro

Chair: YOSHIDA, Kazuhiro (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4D4-15, 4D4-16, 4D4-17, 4D4-19, 4D4-20)

- 4D4-15** Catalytic Pentafluoroethylation Reaction via Fluorocupration of Tetrafluoroethylene (Grad. Sch. Eng., Osaka Univ.) ○ISHIDA, Naoyoshi; KIKUSHIMA, Kotaro; OHASHI, Masato; OGOSHI, Sensuke
4D4-16 Copper-Catalyzed Defluoroborylation of Fluoroalkenes (Grad. Sch. Eng., Osaka Univ.) ○SAKAGUCHI, Hironobu; KIKUSHIMA, Kotaro; OHASHI, Masato; OGOSHI, Sensuke
4D4-17* Ligand-Controlled Chemoselectivity of Copper(I)-Catalyzed Borylation Reaction and Development of Borylative Radical Cyclization (FCC, Hokkaido Univ.) ○IWAMOTO, Hiroaki; KUBOTA, Koji; AKIYAMA, Sota; ITO, Hajime
4D4-19 Copper(I)-Catalyzed Borylative Radical Cyclization of α -Haloacetals (FCC, Hokkaido Univ.) ○AKIYAMA, Sota; IWAMOTO, Hiroaki; HAYAMA, Keiichi; ITO, Hajime
4D4-20 Copper(I)-Catalyzed Regio- and Stereoselective Intramolecular Borylative Cyclization of Propargyl Ethers and Propargyl Amines (FCC, Hokkaido Univ.) ○OZAWA, Yu; IWAMOTO, Hiroaki; KUBOTA, Koji; ITO, Hajime

Room E1
 Fourth Building Independence Wing
 D301

Materials Chemistry

Thursday, March 16, AM

Carbon Materials

Chair: SHIRAKI, Tomohiro (9 : 10 ~10 : 10)

* 9:00-9:10: interval for laptop PC connection.(1E1-02, 1E1-04, 1E1-05, 1E1-06, 1E1-07)

- 1E1-02*** Preparation and electrocatalytic performance of Pt nanocluster - polymer - carbon nanotube composite catalysts (Grad. Sch. Sci., Nagoya Univ.) ○MURATSUGU, Satoshi; ICHIHASHI, Kentaro; MIYAMOTO, Shota; SAKAMOTO, Kana; TADA, Mizuki
1E1-04 Graphene Quantum Dots Covalently Functionalized with Porphyrins (Grad. Sch. Eng., Kyoto Univ.) ○MIZUNO, Satoshi; BAEK, Jinseok; FUKUDA, Ryosuke; UMEYAMA, Tomokazu; IMAHORI, Hiroshi
1E1-05* Formation of porphyrin dimers on single-walled carbon nanotubes and their photophysical properties (Grad. Sch. Eng., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○BAEK, Jinseok; UMEYAMA, Tomokazu; IMAHORI, Hiroshi
1E1-06 Preparation and porous properties of pillared carbons with various pillar densities (Grad. Sch. Eng., Univ. of Hyogo) ○AOTO, Ai; MATSUO, Yoshiaki
1E1-07 Synthesis and Property of BCN-Graphite Using BN Containing π -Conjugated Molecules as Precursors (Fac. Sci. Eng., Chuo Univ.; Fac. Sci. Eng., Waseda Univ.; Grad. Sch. Eng., Nagoya Univ.) ○KOBAYASHI, Jun; SUZUKI, Katsunori; SUGAHARA, Yoshiyuki; YAMASHITA, Makoto

Chair: UMEYAMA, Tomokazu (10 : 20~11 : 40)

* 10:10-10:20: interval for laptop PC connection.(1E1-09, 1E1-11, 1E1-13, 1E1-14, 1E1-15, 1E1-16)

- 1E1-09*** Formation of Graphene Nanoribbon Mediated by Coordination Nanospaces (Grad. Sch. Eng., Kyoto Univ.) ○MACLEAN, Michael W. A.; KITAO, Takashi; HONGU, Ryoto; UEMURA, Takashi; KITAGAWA, Susumu
1E1-11* Control of Near-IR Photoluminescence of Carbon Nanotubes Based on Molecularily Designed Modifications (Grad. Sch. Eng., Kyushu Univ.) ○SHIRAIISHI, Tomonari; SHIRAKI, Tomohiro; NAKASHIMA, Naotoshi
1E1-13 Near-infrared photoluminescence tuning of phenylboronic acid-modified single-walled carbon nanotubes through saccharide recognition (Grad. Sch. Eng., Kyushu Univ.) ○ONITSUKA, Hisashi; SHIRAKI, Tomohiro; NAKASHIMA, Naotoshi

- 1E1-14** Photochemical modification of single-walled carbon nanotubes and their metal nanoparticles attachment (AIST) ○NAKAMURA, Takako; OHANA, Tsuguyori; TSUCHIYA, Tetsuo
1E1-15 Exchange Reaction of Intercalates for Graphite Intercalation Compounds Based on Fluorocomplex Anions (Grad. Sch. Energy Sci., Kyoto Univ.) ○YAMAMOTO, Hiroki; MATSUMOTO, Kazuhiko; HAGIWARA, Rika
1E1-16 Synthesis of diamond from the solvent adjusted CHO ratio by using microwave assisted plasma in-liquid method (Fac. Sci. Technol., TUS) ○MIYASAKA, Kazuya; SAKURAI, Yusei; HARADA, Yohei; TERASHIMA, Chiaki; UETSUKA, Hiroshi; SUZUKI, Takahiro; NAKATA, Kazuya; KATSUMATA, Ken-ichi; KONDOU, Takeshi; YUASA, Makoto; FUJISHIMA, Akira

Thursday, March 16, PM

Composite Materials

Chair: MATSUBARA, Masaki (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(1E1-34, 1E1-36, 1E1-38)

- 1E1-34*** Space accommodation for enhanced narrow-pressure range storage in flexible MOF (Air Liquide Labo.) ○LAVENN, Christophe; GINET, Patrick; BONNEAU, Mickael; BARBIER, Françoise; HOSONO, Nobuhiko; KUSAKA, Shinpei; SATO, Yohei; SEN, Susan; MATSUDA, Ryotaro; KITAGAWA, Susumu
1E1-36* Synthesis of hydroxyapatite thin films with periodic surface-relief patterns through approaches inspired by biomineralization (Grad. Sch. Eng., The Univ. of Tokyo) ○NISHIMURA, Tatsuya; HAN, Yulai; IIMURA, Misato; SAKAMOTO, Takeshi; KATO, Takashi
1E1-38* Preparation of Fluorescent Metal-Organic Frameworks through an Interfacial Reaction (FIRST, Konan Univ.) ○TSURUOKA, Takaaki; MIYANAGA, Ayumi; OHASHI, Takashi; TAKASHIMA, Yohei; AKAMATSU, Kensuke

Chair: TANAKA, Kazuo (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(1E1-41, 1E1-45)

- 1E1-41*** CSJ Award for Technical Development Development of reaction-induced nano-phase separated epoxy resin for high-performance carbon fiber-reinforced plastics (Toray Industries, Inc.) HONDA, Shiro; ○HIRANO, Noriyuki; TOMIOKA, Nobuyuki; FUJIWARA, Takayuki; SAKATA, Hiroaki
1E1-45* Liquid-Crystalline Organic-Inorganic Hybrid Dendrimer: Photoluminescence Behavior of Self-Organized CdS Nano-Cores (Sendai Nat. Coll. of Tech.; IMRAM, Tohoku Univ.; University of Sheffield) ○MATSUBARA, Masaki; YABUKI, Jun; UNGAR, Goran; MURAMATSU, Atsushi; KANIE, Kiyoshi

Chair: KOKADO, Kenta (16 : 50~17 : 50)

* 16:40-16:50: interval for laptop PC connection.(1E1-48, 1E1-49, 1E1-50, 1E1-51, 1E1-52, 1E1-53)

- 1E1-48** Synthetic Study of Polyhedral Oligomeric Silsesquioxane Monomers as a Novel Insulating Material and their Reaction Analyses (Yazaki Corporation) ○TONOSAKI, Keiju; NISHIAKI, Yasuhiro; YOKOUCHI, Naoki; KAKUTA, Takahiro; TANAKA, Kazuo; CHUJO, Yoshiki
1E1-49 Preparation of zinc oxide supported bulk-type porous silica as desulfurizing agent (Fac. Sci. Technol., TUS) ○OHASHI, Masahiro; TSUKADA, Satoru; GUNJI, Takahiro
1E1-50 Synthesis of polyhedral oligomeric silsesquioxanes using alkoxysilane (Fac. Sci. Technol., TUS) ○SUSAMI, Yuma; TSUKADA, Satoru; GUNJI, Takahiro
1E1-51 Synthesis and formation mechanism of oligosiloxanes (Fac. Sci. Technol., TUS) ○ABE, Iori; TSUKADA, Satoru; GUNJI, Takahiro
1E1-52 Metal salt/metal oxide free synthesis of Metal-Organic framework from Metal substrate or metal powder (NIPPON STEEL & SUMITOMO METAL CORPORATION) ○KAJIRO, Hiroshi; KINOSHITA, Kentaro; MURAYAMA, Naohiro; NISHIMURA, Yuki; KATADA, Naonobu
1E1-53 Preparation and water separation properties of reverse osmosis membranes based on organically bridged polysilsesquioxane with amino groups (Fac. Eng., Hiroshima Univ.) ○SASAHARA, Kenji; KOUGE, Sayako; YAMAMO, Kazuki; OHSHITA, Joji; TSURU, Toshinori

Chair: OHSHITA, Joji (18 : 00~18 : 40)

* 17:50-18:00: interval for laptop PC connection.(1E1-55, 1E1-56, 1E1-57, 1E1-58)

- 1E1-55** Elucidation of Formation Mechanism of Coordination Polymer Using an Interfacial Growth Approach (FIRST, Konan Univ.) ○OHASHI, Takashi; TSURUOKA, Takaaki; FUJIMOTO, Seiya; TAKASHIMA, Yohei; AKAMATSU, Kensuke
1E1-56 Effect of Counter Cations in Proton Conduction of Porous Ionic Crystals (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○HOSONO, Reina; UCHIDA, Sayaka
1E1-57* Application to a Light-Harvesting Material of POSS Derivatives Having Radially-Integrated Luminophores (Grad. Sch. Eng., Kyoto Univ.) ○SATO, Keita; GON, Masayuki; TANAKA, Kazuo; CHUJO, Yoshiki
1E1-58 Encapsulation of functional materials in the hollow of polyhedral

Chair: FUNAHASHI, Masahiro (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3E1-08, 3E1-09, 3E1-10, 3E1-11)

- 3E1-08** Liquid-crystalline and photoluminescence properties of fluorine-containing 1,4-bis(phenylethynyl)benzene derivatives with a push-pull system (KIT) ○MIYANO, Kazuya; YAMADA, Shigeyuki; KONNO, Tsutomu
- 3E1-09** Novel synthesis of fluorine-containing 1,4-bis(phenylethynyl)benzene derivatives with a push-pull system and their photoluminescence behavior (KIT) ○MORITA, Masato; YAMADA, Shigeyuki; KONNO, Tsutomu
- 3E1-10** Development of a pentacene-based composite material for Triplet-DNP (Fac. Eng., Kyushu Univ.) ○FUJIWARA, Saiya; HOSOYAMADA, Masanori; YANAI, Nobuhiro; KIMIZUKA, Nobuo
- 3E1-11[#]** Young Scholar Lectures of CSJ Precise Supramolecular Polymerization (RIKEN CEMS) ○MIYAJIMA, Daigo

Chair: ITOH, Yoshimitsu (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3E1-15, 3E1-17, 3E1-19)

- 3E1-15[#]** 2D *sp*²-Carbon Covalent Organic Frameworks (Sch. Physical Sci., SOKENDAI) ○JIN, Enquan; DONGLIN, Jiang
- 3E1-17[#]** 2D Covalent organic frameworks for CO₂ capture and separation (Sch. Physical Sci., SOKENDAI) ○ZHAI, Lipeng; JIANG, Donglin
- 3E1-19[#]** High-Rate Proton Conduction in Crystalline and Porous Covalent Organic Frameworks (Sch. Physical Sci., SOKENDAI) ○TAO, Shanshan; XU, Hong; JIANG, Donglin

Saturday, March 18, PM

Chair: SADA, Kazuki (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3E1-28, 3E1-30, 3E1-32)

- 3E1-28[#]** A Two-dimensional COF for All Solid State Lithium Ion Conductivity (Sch. Physical Sci., SOKENDAI) ○XU, Qing; JIANG, Donglin
- 3E1-30[#]** Angstrom-level molecular discrimination in covalent organic frameworks (Sch. Physical Sci., SOKENDAI) ○WANG, Ping; JIANG, Donglin
- 3E1-32[#]** Amplified Sensing of Volatile Amines by Highly Emissive Covalent Organic Frameworks (Sch. Mat. Sci., JAIST) ○DALAPATI, Sasanka; JIANG, Donglin

Chair: TERANISHI, Toshiharu (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(3E1-35)

- 3E1-35** CSJ Award for Creative Works Design and Functional Exploration of Two-dimensional Covalent Organic Framework Materials (Sch. Mat. Sci., JAIST) ○JIANG, Donglin

Chair: IKEMOTO, Koki (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(3E1-42, 3E1-43, 3E1-44, 3E1-46)

- 3E1-42** Locational design of reaction points in crystal crosslinking method using pillared layer MOFs (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○FUKUSHIMA, Kanta; SUNAGA, Soukuro; KOKADO, Kenta; SADA, Kazuki
- 3E1-43** Charge transport properties of multilayered organic semiconductor film by using impedance spectroscopy method (Fac. Eng., Chiba Univ.) ○MINAMIDA, Eisuke; OKA, Kaoru; MINAMI, Haruki; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 3E1-44^{*}** Control of major carriers in an ambipolar semiconductor by self-assembled monolayers (RIKEN CEMS) ○NAKANO, Masahiro; TAKIMIYA, Kazuo
- 3E1-46[#]** Proton conductivity of polymer electrolyte membrane prepared by poly(acrylic acid)-b-polystyrene coated silica and polycarbonate (Grad. Sch. Sci., Eng., Yamagata Univ.) ○SHITO, Keiji; TAKAHASHI, Yuki; MASUHARA, Akito; ARITA, Toshihiko

Chair: KOBAYASHI, Norihisa (17 : 00~18 : 10)

* 16:50-17:00: interval for laptop PC connection.(3E1-49, 3E1-50, 3E1-51, 3E1-52, 3E1-54, 3E1-55)

- 3E1-49** Modular Synthesis of Aromatic Hydrocarbon Macrocycles for Single-layer Organic Light-emitting Devices (Grad. Sch. Sci., Tohoku Univ.) ○YOSHII, Asami; IKEMOTO, Koki; IZUMI, Tomoo; TAKA, Hideo; KITA, Hiroshi; XUE, Jin; KOBAYASHI, Ryo; SATO, Sota; ISOBE, Hiroyuki
- 3E1-50** Blue fluorescent organic light-emitting devices with a single-layer architecture solely of aromatic hydrocarbon macrocycles (Grad. Sch. Sci., The Univ. of Tokyo; ERATO, JST; WPI-AIMR, Tohoku Univ.; KONICA MINOLTA, INC; Grad. Sch. Sci., Tohoku Univ.; RIKEN CEMS) ○IKEMOTO, Koki; IZUMI, Tomoo; TIAN, Yi; YOSHII, Asami; KORETSUNE, Takashi; ARITA, Ryotaro; KITA, Hiroshi; TAKA, Hideo; SATO, Sota; ISOBE, Hiroyuki
- 3E1-51** Applications of disilane-bridged biaryls as new silane coupling agents. (Grad. Sch. Eng., Hiroshima Univ.) ○KAI, Takashi; ARASE, Hidekazu; OSHITA, Joji; KUNUGI, Yoshihito; TSUTSUMI, Jyunya
- 3E1-52[#]** Creation of Functional Fiber Materials by Direct Electrospinning of Cyclodextrin (Fac. Textile Sci. Technol., Shinshu Univ.) ○YOSHIDA, Hiroaki; KIKUTA, Ken; SUGIYAMA, Yuji; KIDA, Toshiyuki
- 3E1-54** Creation of Cucurbit[6]uril Nonwovens by Direct Spinning (Fac. Textile Sci. Technol., Shinshu Univ.) ○MIYAZAWA, Koki; YOSHIDA,

Hiroaki; KIDA, Toshiyuki

- 3E1-55[#]** Steering hydrogel networks utilizing liner macromolecule and application to artificial muscle (Fac. Eng., Niigata Univ.) ○ENDO, Takuo; TAMESUE, Shingo; YAMAUCHI, Takeshi

Sunday, March 19, AM

Inorganic Materials

Chair: SARUYAMA, Masaki (9 : 00~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4E1-01, 4E1-02, 4E1-03, 4E1-04, 4E1-05)

- 4E1-01** Hydrothermal Synthesis of Zn₂SiO₄:Mn²⁺ green emission phosphor using a water soluble silicon compound (Grad. Sch. Eng., Hiroshima Univ.) ○SAMIZO, Hayata; KATAGIRI, Kiyofumi; INUMARU, Kei
- 4E1-02** Synthesis of GaN:ZnO solid solution by using Zn-Ga Layered Double Hydroxide and Urea as precursors (Grad. Sch. Eng., Hiroshima Univ.) ○HAYASHI, Yuki; KATAGIRI, Kiyofumi; INUMARU, Kei
- 4E1-03** Modification of oxide particles by plasma generated in aqueous system (IMR, Tohoku Univ.) ○MIZUKOSHI, Yoshiteru; NAKANISHI, Hodaka; NISHIMURA, Yoshimi; HORI, Fuminobu; OKITSU, Kenji
- 4E1-04** Development of surface-coated zinc oxide for cosmetics (Sumitomo Osaka Cement Company, Limited) ○MATSUSHITA, Hirokazu; FUJIHASHI, Gaku; ITAGAKI, Tetsuro
- 4E1-05[#]** Wearing Noble Metals on Cu Nanotemplates: From Core-Shell Nanocrystals to 3D-Open Nanoframes toward Energy-Conversion Reactions (Inst. of Chem., Academia Sinica) ○KUO, Chun-hong

Chair: TSURUOKA, Takaaki (10 : 10~10 : 50)

* 10:00-10:10: interval for laptop PC connection.(4E1-08, 4E1-10)

- 4E1-08[#]** Coordination Polymers as Precursors for Helical Metal Sulfide (Fac. Sci., Hokkaido Univ.) ○HIRAI, Kenji; YEOM, Bongjun; SADA, Kazuki
- 4E1-10[#]** Size selective synthesis and size dependency for CO oxidation reaction of tin oxide clusters containing divalent and tetravalent tin sites (Lab. Chem. Life Sci., Tokyo Tech.; ERATO, JST) ○INOMATA, Yusuke; ALBRECHT, Ken; YAMAMOTO, Kimihisa

Chair: ASahi, Toru (11 : 00~11 : 40)

* 10:50-11:00: interval for laptop PC connection.(4E1-13, 4E1-15)

- 4E1-13^{*}** High pressure synthesis and antiferromagnetic metallic state of A-site-ordered perovskite LaCu₃Cr₂O₁₂ with unusually high valence ions. (ICR, Kyoto Univ.) ○SAITO, Takashi; ZHANG, Shoubao; ATTFIELD, Paul; SHIMAKAWA, Yuichi
- 4E1-15^{*}** Novel oxides with unusually high valence Fe obtained by topochemical reactions and their unusual charge properties (ICR, Kyoto Univ.) ○SHIMAKAWA, Yuichi; HOSAKA, Yoshiteru; GUO, Haichuan; ROMERO, Fabio Denis; ICHIKAWA, Noriya; SAITO, Takashi

Chair: SHIBATA, Masashi (11 : 50~12 : 40)

* 11:40-11:50: interval for laptop PC connection.(4E1-18, 4E1-19, 4E1-20, 4E1-21, 4E1-22)

- 4E1-18[#]** Preparation of Mesoporous Silica Nanoparticles with Closed Pores through Hydrothermal Treatment (Sch. Advanced Sci. Eng., Waseda Univ.) ○CHENG, Lulu; MORI, Seiya; YAMAMOTO, Eisuke; SHIMOJIMA, Atsushi; WADA, Hiroaki; KURODA, Kazuyuki
- 4E1-19[#]** Selective preparation of Janus-type colloidal mesoporous silica nanoparticles by using organoalkoxysilanes with aromatic groups (Sch. Advanced Sci. Eng., Waseda Univ.) ○ISHIKAWA, Yukino; YAMAMOTO, Eisuke; SHIMOJIMA, Atsushi; WADA, Hiroaki; KURODA, Kazuyuki
- 4E1-20** Enantioselective/Stereoselective Recognition at Surface of Mesoporous Pd@Pt Nanoparticle (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○FANG, Yuxi; YAMAUCHI, Yusuke; ASahi, Toru
- 4E1-21[#]** Mesoporous Gold Film electrode for high performance non-enzymatic glucose detection (Grad. Sch. Advanced Sci. Eng., Waseda Univ.; MANA, NIMS) ○NUGRAHA, Asep; LI, Cuiling; YAMAUCHI, Yusuke; ASahi, Toru
- 4E1-22** Fabrication of mesoporous Cu film for the application to dopamine sensor (Grad. Sch. Advanced Sci. Eng., Waseda Univ.; MANA, NIMS) ○BABA, Daisuke; YAMAUCHI, Yusuke; ASahi, Toru

Room E2

Fourth Building Independence Wing
D303Organic Chemistry - Reaction and Synthesis-
Organometallic Compounds

Thursday, March 16, AM

Al

Chair: NAKAMURA, Itaru (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1E2-01, 1E2-02, 1E2-03, 1E2-04, 1E2-05, 1E2-06)

1E2-01 Efficient Al-salen-catalyzed Asymmetric 1,4-cyanation of α, β -unsaturated Imides Based on Self-assembly Cooperative Activation (Grad. Sch. Chem. Sci. Technol., TUS) ○SUGIYAMA, Hirota; KITAHARA, Yusuke; IMAHORI, Tatsushi**1E2-02** *anti*-Carboalumination of Alkynes by Direct Use of Aluminum Trihalide (Grad. Sch. Eng., Osaka Univ.) NISHIMOTO, Yoshihiro; ○HIRASE, Rina; YASUDA, Makoto**1E2-03** Diisobutylaluminum hydride-promoted benzocyclization and its application to natural product synthesis (Grad. Sch. Sci., Eng., Saitama Univ.) ○YAGUCHI, Kazuki; KINOSHITA, Hidenori; MIURA, Katsukiyo**1E2-04** Synthesis of benzosiloles and siloles by intramolecular carbon-silicon bond formation using diisobutylaluminum hydride (Grad. Sch. Sci., Eng., Saitama Univ.) ○FUKUMOTO, Hiroki; UEDA, Akihiro; KINOSHITA, Hidenori; MIURA, Katsukiyo

Au

1E2-05 Synthesis of Unsaturated Medium-Membered Lactones by Late Transition Metal Catalyzed Cyclization of Alkynoic Acids (Fac. Sci., Kyushu Univ.) ○IKEDA, Takaaki; YAMAMOTO, Eiji; MURAYAMA, Haruno; TOKUNAGA, Makoto**1E2-06** Gold(I)-Catalyzed Regioselective [2 + 3] Cycloaddition of Difluoroallenes with Epoxides (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○SUTO, Kyosuke; FUCHIBE, Kohei; ICHIKAWA, Junji

Chair: KINOSHITA, Hidenori (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1E2-08, 1E2-09, 1E2-10, 1E2-11, 1E2-12, 1E2-13)

1E2-08 Synthesis of dibenzazepine derivatives containing a carbazole skeleton via Au(I)-catalyzed cycloisomerization (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○KAWASAKI, Ryosuke; ITO, Mamoru; KANYIVA, Kyalo Stephen; SHIBATA, Takanori**1E2-09** Synthesis of Dibenzazepine Derivatives Containing an Indoline Skeleton via Au(I)-Catalyzed Cycloisomerization (Sch. Advanced Sci. Eng., Waseda Univ.) ○INOUE, Daisuke; ITO, Mamoru; KANYIVA, Stephen Kyalo; SHIBATA, Takanori**1E2-10** Enantioselective Synthesis of Carbohelicenes by Gold-Catalyzed Sequential Intramolecular Hydroarylation (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SATO, Masakazu; SHIBATA, Yu; TANAKA, Ken**1E2-11** Gold-Catalyzed Skeletal Rearrangement of *O*-Propargylic Oximes Bearing an Ester Group at the Oxime Moiety (Grad. Sch. Sci., Tohoku Univ.) ○GIMA, Shinya; SHIGA, Keigo; NAKAMURA, Itaru; TERADA, Masahiro**1E2-12** Gold-Catalyzed Skeletal Rearrangement of *O*-Propargylic Oximes via N-O bond cleavage (Sch. Sci., Tohoku Univ.) ○SHIGA, Keigo; NAKAMURA, Itaru; TERADA, Masahiro**1E2-13** Thiolate-Protected Au NCs Catalyzed Hydroamination of Alkynes (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○NAGATA, Tatsuki; ADACHI, Yurina; OBORA, Yasushi

Chair: TSURUGI, Hayato (11 : 20 ~ 12 : 10)

* 11:10-11:20: interval for laptop PC connection.(1E2-15, 1E2-16, 1E2-17, 1E2-18, 1E2-19)

1E2-15 Synthesis of Indole-Based Ladder-Type Compounds by Au/Rh-Catalyzed Consecutive Intramolecular Cyclization (Fac. Sci., TUS) ○ITO, Hirota; MATSUDA, Takanori**1E2-16** Evaluation of the Reactivity of Metallocatalytic Cavities in the Dimerization of Terminal Alkynes (Grad. Sch. Sci. Tech., Ryukoku Univ.) ○ENDO, Naoki; KANAURA, Mao; IWASAWA, Tetsuo

Cr

1E2-17 Structural Characterization and Application to Catalytic Transformation of *gem*-Bis(dichlorochromio)silyl methane Complexes (Fac. of Eng., Okayama Univ.) ○TANIGUCHI, Ryuji; HOSOKAWA, Naoki; MIMACHI, Hiroko; MURAI, Masahito; OSHIKI, Toshiyuki; TAKAI, Kazuhiko**1E2-18** Chromium(II)-Promoted Stereoselective Borylcyclopropanation of Alkenes (Fac. of Eng., Okayama Univ.) ○MIZUTA, Chisato; MURAI, Masahito; TAKAI, Kazuhiko**1E2-19** Self-assembly Cr(III)-salen Complex For Epoxide Ring-Opening Reaction with Azide (Grad. Sch. Chem. Sci. Technol., TUS) ○KOGA, Toshihiko; IMAHORI, Tatsushi

Thursday, March 16, PM

Mn

Chair: SHIBATA, Yu (14 : 40 ~ 15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1E2-35, 1E2-36, 1E2-37, 1E2-38, 1E2-39, 1E2-40)

1E2-35 Manganese-Catalyzed Ring-Opening of Benzofurans and its Application to Insertion of Heteroatom into the C2-O Bond. (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TSUCHIYA, Shun; SAITO, Hayate; NOGI, Keisuke; YORIMITSU, Hideki**1E2-36** Catalytic Asymmetric Synthesis of Planar-Chiral (Phosphacyclopentadienyl)manganese(I) Complexes by Molybdenum-Catalyzed Ring-Closing Metathesis (Grad. Sch. Sci. Tech., Tokushima Univ.; Inst. for Cat., Hokkaido Univ.; Grad. Sch. Life Sci., Hokkaido Univ.; Grad. Sch. Sci., Osaka Pref. Univ.; Osaka Pref. Univ.) ○URYU, Mizuho; TSENG, Ya-yi; ISHIMOTO, Hiroto; OHYA, Naoki; TAKAHASHI, Tamotsu; KAMIKAWA, Ken; OGASAWARA, Masamichi

Nb

1E2-37[#] Hydrodehalogenation Reactions of Haloalkanes Catalyzed by Niobium Complexes Bearing α -Diimine Ligands (Grad. Sch. Eng. Sci., Osaka Univ.) ○NISHIYAMA, Haruka; TSURUGI, Hayato; MASHIMA, Kazushi**1E2-38** Niobium/diamine catalyzed [2+2+2] cycloaddition of alkynes with alkenes leading to 1,3-cyclohexadiene derivatives (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○TERATANI, Kosei; KASHIMA, Koki; FUJII, Maito; OBORA, Yasushi

Mo

1E2-39 Molybdenum-Catalyzed Synthesis of Pyridoisoindoles via Deoxygenation of Carbonyl Compounds (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○ISHIHARA, Seina; ASAKO, Sobi; TAKAI, Kazuhiko**1E2-40** Molybdenum-Catalyzed Synthesis of Pyridoisoindoles via Retrocyclopropanation (Fac. of Eng., Okayama Univ.) ○KOBASHI, Takaaki; ASAKO, Sobi; TAKAI, Kazuhiko

Re

Chair: FUJIHARA, Tetsuaki (15 : 50 ~ 16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1E2-42, 1E2-43, 1E2-44, 1E2-45, 1E2-46, 1E2-47)

1E2-42 Rhenium-Catalyzed Reduction of Alcohols with Et₃SiH (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○KAMIGUCHI, Kyohei; UMEDA, Rui; NISHIYAMA, Yutaka**1E2-43** Rhenium-Catalyzed Synthesis of 1,3-Disubstituted Dihydroisoquinolines (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○ISHIDA, Tetsuya; UMEDA, Rui; NISHIYAMA, Yutaka**1E2-44** Effect of Amine-N-Oxide Additives on the Rhenium-Catalyzed Regioselective Addition of *N*-Alkylimines to Terminal Alkynes Leading to Allylamines (Grad. Sch. Eng., Osaka Univ.) FUKUMOTO, Yoshiya; ○OKAZAKI, Natsuki; CHATANI, Naoto**1E2-45** Rhenium-Catalyzed Oxygenative Anti-Markovnikov Addition of Amines to Terminal Alkynes in the Presence of Amine-N-oxides Leading to Carboxamides (Grad. Sch. Eng., Osaka Univ.) FUKUMOTO, Yoshiya; ○IYORI, Yasuaki; CHATANI, Naoto**1E2-46** Rhenium-Catalyzed Selective Migration of Carbon-Carbon Double Bonds (Fac. of Eng., Okayama Univ.) ○NISHIMURA, Kengo; MURAI, Masahito; TAKAI, Kazuhiko**1E2-47** Rhenium-Catalyzed Synthesis of Benzopyran Derivatives via the Regioselective Alkenylation of Phenols with Alkynes (Fac. of Eng., Okayama Univ.) ○YAMAMOTO, Masaki; MURAI, Masahito; TAKAI, Kazuhiko

Co

Chair: KAMIKAWA, Ken (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 Cobalt-Catalyzed Oxidative Annulation of Aromatic Tertiary Amines with *N*-Substituted Maleimides leading to Tetrahydroquinoline Derivatives (Fac. Sci. Technol., TUS) ○MATSUMOTO, Shun; OGIWARA, Yohei; SAKAI, Norio**1E2-50** Epoxide Ring-opening Reaction with Self-assembly Co(III)-salen Catalyst. (TUS) ○KOYAMA, Kenta; IMAHORI, Tatsushi**1E2-51** Co-catalyzed cross-coupling reaction of alkyl fluorides with alkyl Grignard reagents (Grad. Sch. Eng., Osaka Univ.) ○YAMASHITA, Koji;

- IWASAKI, Takanori; KUNIYASU, Hitoshi; KAMBE, Nobuaki
1E2-52[#] Cobalt-Catalyzed Chelation Assisted C-H Alkylation of Aromatic Amides with Unactivated Olefins (Grad. Sch. Eng., Osaka Univ.)
 ○KOMMAGALLA, Yadagiri; YAMAGUCHI, Takuma; AIHARA, Yoshinori; CHATANI, Naoto
1E2-53 Cobalt-catalyzed construction of cyclobutene ring using alkynes and acrylates (Grad. Sch. Eng., Kyoto Univ.) ○YAGI, Yuki; KUKITA, Susumu; FUJIHARA, Tetsuaki; TERAU, Jun; TSUJI, Yasushi
1E2-54 Cobalt-catalyzed construction of cyclobutene ring using alkynes and acrylates in the presence of a suitable electrophile (Grad. Sch. Eng., Kyoto Univ.) ○KUKITA, Susumu; YAGI, Yuki; FUJIHARA, Tetsuaki; TERAU, Jun; TSUJI, Yasushi

Ag

Chair: IWASAKI, Takanori (18 : 10~18 : 50)

- * 18:00-18:10: interval for laptop PC connection.(1E2-56, 1E2-57, 1E2-58, 1E2-59)
1E2-56 Synthesis of Enol Esters through Silver-promoted Nucleophilic Addition of Carboxylic Acids to Alkynes (Grad. Sch. Sci., Osaka City Univ.) ○KIKUI, Nanae; HINOUE, Tomoaki; USUKI, Yoshinosuke; SATOH, Tetsuya
1E2-57 Silver-Catalyzed Decarbonylative α -Aminoalkylation for the Synthesis of Oxindoles (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○MAKINO, Sohei; KANYIVA, Kyalo Stephen; SHIBATA, Takanori
1E2-58 Ag-Metalloporphyrin Complex : Synthesis and Catalytic Reactivity (Grad. Sch. Eng., Kyoto Univ.) ○MAEDA, Kazuki; KURAHASHI, Takuya; MATSUBARA, Seijiro
1E2-59 Oxidation of Alcohols Catalyzed by Silver Acetylides (Dept. Chem., Tokyo Med. Univ.) ○ISHIKAWA, Shingo; FUGAMI, Keigo

Friday, March 17, AM

Si

Chair: ASAKO, Sobi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2E2-01, 2E2-02, 2E2-03, 2E2-04, 2E2-05, 2E2-06)
2E2-01[#] Boron-Catalyzed C-Si/Si-H Cross Metathesis of Hydrosilanes (Organometallic Chemistry Laboratory) ○MA, Yuanhong; ZHANG, Liang; HOU, Zhaomin

Ge

- 2E2-02[#]** Diastereoselective Aldol Reaction of Cyclic Germanium Enolates from α, β -Unsaturated Ketones with Ge(II) Salt and its Application to Synthesis of Functionalized Compounds (Grad. Sch. Eng., Osaka Univ.) KONISHI, Akihito; ○MINAMI, Yohei; YASUDA, Makoto

Sn

- 2E2-03** Dibutylidotin Hydride-catalyzed Coupling Reaction of Dienes with Aldehydes (Grad. Sch. Eng., Osaka Univ.) ○UJI, Yuki; SUZUKI, Itaru; SHIBATA, Ikuya
2E2-04 Tin-catalyzed Annulation of Methylencyclopropanes (Grad. Sch. Eng., Osaka Univ.) ○MIZUKAMI, Hiroki; SUZUKI, Itaru; SHIBATA, Ikuya

Li

- 2E2-05** Stereoselective Synthesis of Poly-substituted Enamides from Adducts between 1-Bromo-1-alkynes and *N*-Alkyltriflamides (Sch. Life Sci. Tech., Tokyo Tech.) ○MATSUMOTO, Tsubasa; KOSAKA, Kyohei; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
2E2-06 Stereoselective Synthesis of Poly-substituted Enamides Utilizing the Inversion of Olefinic Stereochemistry of Lithio(bromo)enamides (Sch. Life Sci. Tech., Tokyo Tech.) ○KOSAKA, Kyohei; MATSUMOTO, Tsubasa; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu

Na

Chair: ITO, Hajime (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2E2-08, 2E2-09, 2E2-10, 2E2-11, 2E2-13)
2E2-08 Synthesis of Sodium 2,2,6,6-Tetramethylpiperidide Using Sodium Dispersion and Its Synthetic Application (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KODERA, Masato; ASAKO, Sobi; TAKAI, Kazuhiko

Mg

- 2E2-09** Synthesis of Benzimidazoles by Using Nitrenes Prepared from Nitroarenes and Grignard Reagents (Sch. Life Sci. Tech., Tokyo Tech.) HATA, Takeshi; ○TOYA, Eitaro; TAKAHASHI, Naoto; TANAKA, Naomi; SHIGETA, Masayuki; URABE, Hirokazu

Y

- 2E2-10** Catalytic C(sp³)-H Bond Alkenylation of 2-Methylpyridines Mediated by Yttrium Complexes and Their Mechanistic Study (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAKAMOTO, Masami; NAGAE, Haruki; KUNDU, Abhinanda; TSURUGI, Hayato; MASHIMA, Kazushi
2E2-11[#] Mechanistic investigation of aminoalkylation reaction of *N*-heteroaromatics catalyzed by yttrium complexes with *N,N*-diarylethylenediamine ligands. (Grad. Sch. Eng. Sci., Osaka Univ.) ○KUNDU, Abhinanda; NAGAE, Haruki; NAKAMOTO, Masami; TSURUGI, Hayato; MASHIMA, Kazushi

Hf

- 2E2-13** Palladium-Catalyzed Reductive Cross-Coupling from Alkynes and Organoiodides via Formation of Alkenylhafniums by a Combination of Hafnium and Hydrosilane (Fac. Sci. Technol., TUS) ○TAKAHASHI, Keita; OGIWARA, Yohei; SAKAI, Norio

In

Chair: HOSHIMOTO, Yoichi (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(2E2-15, 2E2-16, 2E2-17, 2E2-18, 2E2-19)
2E2-15 Indium-Catalyzed Reductive Conversions of C-O Bonds in Benzyl Alcohols into C-S and C-C Bonds (Fac. Sci. Technol., TUS) ○KATAYAMA, Masahiro; OGIWARA, Yohei; SAKAI, Norio
2E2-16 Indium-Catalyzed Reductive *N*-Alkylation of Secondary Amines using Carboxamides as an *N*-Alkylating Reagent (Fac. Sci. Technol., TUS) ○IDE, Keisuke; SHIMODA, Wataru; OGIWARA, Yohei; SAKAI, Norio
2E2-17 Indium-Catalyzed Reductive Conversion of Carboxylic Acids into Thioacetals Using a Hydrosilane (Fac. Sci. Technol., TUS) ○MINATO, Kohei; OGIWARA, Yohei; SAKAI, Norio
2E2-18 Indium-Catalyzed Oppenauer Oxidation of Alcohols leading to Aldehydes or Ketones and Its Application (Fac. Sci. Technol., TUS) ○ONO, Yuji; OGIWARA, Yohei; SAKAI, Norio
2E2-19 Indium-Promoted Oxidative Coupling of Terminal Alkynes with Aldehydes and Its Application (Fac. Sci. Technol., TUS) ○KUBOTA, Masahito; IINO, Yurika; OGIWARA, Yohei; SAKAI, Norio

Friday, March 17, PM

B

Chair: NISHIMOTO, Yoshihiro (13 : 20~14 : 20)

- * 13:10-13:20: interval for laptop PC connection.(2E2-27, 2E2-28, 2E2-29, 2E2-30, 2E2-32)
2E2-27 Synthesis and reaction of transformable 9-aza-10-boraanthracene derivatives (Fac. Sci. Eng., Chuo Univ.; Grad. Sch. Eng., Nagoya Univ.) ○ISHIKAWA, Yutaro; NEMA, Shinya; HAYASHI, Kohei; SUZUKI, Katsunori; YAMASHITA, Makoto
2E2-28 Synthesis of Acylboron Compounds by Ozonolysis of Alkenyl Boronates (FCC, Hokkaido Univ.) ○TAKAHASHI, Rina; IKEDA, Toshiki; TAGUCHI, Junpei; SASAKI, Ikuo; BODE, Jeffrey W.; ITOH, Hajime
2E2-29 Synthesis of amino acid type acylboron compounds by ozonolysis and their application to oligopeptide synthesis (Grad. Sch. Eng., Hokkaido Univ.) ○TAGUCHI, Junpei; IKEDA, Toshiki; RINA, Takahashi; SASAKI, Ikuo; BODE, Jeffrey W.; ITO, Hajime
2E2-30[#] Controlling Generation of Frustrated Lewis Pairs from Carbene-Borane Complexes: Mechanism and Application (Grad. Sch. Eng., Osaka Univ.) ○KINOSHITA, Takuya; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke
2E2-32 Development of Organic Boranes Introduced Heteroatoms (Grad. Sch. Eng., Osaka Univ.) ○ASADA, Takahiro; HAZRA, Sunit; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke

Zn

Chair: OGIWARA, Yohei (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(2E2-34, 2E2-35, 2E2-36, 2E2-37, 2E2-38, 2E2-39)
2E2-34 Development of Stimuli-Responsive Organometallic Catalyst: Switching Aggregation by Stimuli-Responsive Ligand (Grad. Sch. Chem. Sci. Technol., TUS) ○OHASHI, Satoshi; IMAHORI, Tatsushi
2E2-35[#] Synthesis of β -Aryloxyalkenylzincs via Regio- and Stereoselective Carbozincation of Ynol Ethers (Grad. Sch. Eng., Osaka Univ.) NISHIMOTO, Yoshihiro; ○KANG, Kyoungmin; YASUDA, Makoto
2E2-36 Reaction Path on the Addition of Allyl- and Benzylmetal Reagents to Pyridines at Their 4-Positions and Its Synthetic Application. (Sch. Life Sci. Tech., Tokyo Tech.) ○MIYANAKA, Kento; MITSUI, Takahiro; MIZUMORI, Tomoya; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
2E2-37 Esterification of Amides Compounds via Acyl Rearrangement

Chair: NISHIMURA, Takahiro (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(3E2-41, 3E2-42, 3E2-43, 3E2-45, 3E2-46)
- 3E2-41** Enantioselective Formal C-H Conjugate Addition of Anilide Derivatives by Iridium Catalysts (1): condition Optimization and Substrate Scope (Sch. Advanced Sci. Eng., Waseda Univ.) ○MICHINO, Masamichi; KURITA, Hisaki; TAHARA, Yu-ki; KANYIVA, Kyalo Stephen; SHIBATA, Takanori
- 3E2-42** Enantioselective Formal C-H Conjugate Addition of Anilide Derivatives by Iridium Catalysts (2): Directing Group Screening and Reaction Mechanism Analysis (Sch. Advanced Sci. Eng., Waseda Univ.) ○KURITA, Hisaki; MICHINO, Masamichi; KANYIVA, Kyalo Stephen; SHIBATA, Takanori
- 3E2-43[†]** Iridium-Catalyzed Enantioselective Intramolecular Addition of *N*-Methyl C-H Bond across C-C Double Bond Giving Dihydroindoles (Grad. Sch. Eng., Kyoto Univ.) ○TORIGOE, Takeru; OHMURA, Toshimichi; SUGINOME, Michinori
- 3E2-45** Iridium-Catalyzed Intramolecular Addition of Methoxy C-H Bond across C-C Double Bond (Grad. Sch. Eng., Kyoto Univ.) OHMURA, Toshimichi; OKUSAKA, Satoshi; TORIGOE, Takeru; SUGINOME, Michinori
- 3E2-46** Selective Hydrogenolysis of C-O Bonds by Iridium Catalyst (Grad. Sch. Eng., The Univ. of Tokyo) ○NISHIUCHI, Toru; KUSUMOTO, Shuhei; NOZAKI, Kyoko

Chair: MURAI, Masahito (16 : 50~17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(3E2-48, 3E2-49, 3E2-50, 3E2-51, 3E2-52, 3E2-53)
- 3E2-48** Enantioselective Synthesis of Homoallyl Nitriles by Iridium-Catalyzed Allylation (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○TAKIZAWA, Kazuki; SATO, Hiroaki; TAKEUCHI, Ryo
- 3E2-49** Iridium-Catalyzed Enantioselective Allylation of Indoles (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○ITOU, Yuta; TAKEUCHI, Ryo
- 3E2-50** *N*-Alkylation of Amines with Alcohols under Mild Conditions Catalyzed by NHC Iridium Complexes (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○MORISHIMA, Namino; FUJITA, Ken-ichi
- 3E2-51** Iridium-Catalyzed Coupling Reactions of Primary Alcohols Leading to Esters and Ethers (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○ONODA, Mitsuki; FUJITA, Ken-ichi
- 3E2-52** Ir-catalyzed peri-selective C-H borylation of 1-hydrosilylnaphthalene (RIKEN CLST) ○SUMIDA, Yuto; HARADA, Ryu; HOSOYA, Takamitsu
- 3E2-53** Iridium-Catalyzed Diastereoselective Hydroarylation of Glycols (Dep. Chem., Sch. Sci., Kyoto Univ.) ○NAGAI, Masaki; EBE, Yusuke; NISHIMURA, Takahiro; YORIMITSU, Hideki

Chair: YAMAMOTO, Takeshi (18 : 00~18 : 50)

- * 17:50-18:00: interval for laptop PC connection.(3E2-55, 3E2-56, 3E2-57, 3E2-58, 3E2-59)
- 3E2-55** Sequential Silylation and Borylation of Heteroarenes Based on the Regioselective C-H Bond Activation (Fac. of Eng., Okayama Univ.) ○NISHINAKA, Naoki; MURAI, Masahito; TAKAI, Kazuhiko
- 3E2-56[†]** Iridium-Catalyzed C(sp³)-H Silylation of 2-Alkylpyridines at the Benzylic Position with Hydrosilanes (Sch. Eng., Osaka Univ.) FUKUMOTO, Yoshiya; ○HIRANO, Masaya; CHATANI, Naoto
- 3E2-57[†]** Iridium-Catalyzed Oxidative Cyclization of *N*-Sulfonyl Alkenamides and Alkenoic Acids (Dep. Chem., Sch. Sci., Kyoto Univ.) ○NAGAMOTO, Midori; NISHIMURA, Takahiro; YORIMITSU, Hideki
- 3E2-58** Iridium-Catalyzed Hydroalkylation of Simple Alkenes with β -Ketoesters (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○OGIHARA, Kei; SAGAWA, Jun; TAKEUCHI, Ryo
- 3E2-59** Hydroxoiridium-Catalyzed *Ortho*-Alkenylation of Aromatic Amides with Alkynes (Dep. Chem., Sch. Sci., Kyoto Univ.) ○FUKUDA, Junichi; NAGAMOTO, Midori; HATANNO, Miyuki; NISHIMURA, Takahiro; YORIMITSU, Hideki

Sunday, March 19, AM

Rh

Chair: IWAI, Tomohiro (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4E2-01, 4E2-02, 4E2-03, 4E2-04, 4E2-05, 4E2-06)
- 4E2-01** Rhodium-Catalyzed Ring-Opening Diborylation of Dibenzothiophene (Dep. Chem., Sch. Sci., Kyoto Univ.) ○SAITO, Hayate; OTSUKA, Shinya; NOGI, Keisuke; YORIMITSU, Hideki
- 4E2-02** Rhodium-Catalyzed C-H Bond Arylation with Aryl Carbamates (Sch. Eng., Osaka Univ.) TOBISU, Mamoru; ○YASUI, Kosuke; AIHARA, Yoshinori; CHATANI, Naoto
- 4E2-03** Rhodium Catalyzed P-P Bond Exchange Reaction of Diphosphine Disulfides (Grad. Sch. Pharm. Sci., Tohoku Univ.) ARISAWA, Miekko; ○YAMADA, Tomoki; TANII, Saori; YAMAGUCHI, Masahiko
- 4E2-04** Synthesis of Multi-Substituted Thienobenzothiophenes by Catalytic [2 + 2 + 2] Cycloaddition and Evaluation of Their Physical Properties (Sch. Advanced Sci. Eng., Waseda Univ.) ○KITA, Shoma; KANYIVA, Kyalo

Stephen; SHIBATA, Takanori

- 4E2-05[†]** Rhodium-Catalyzed Functionalization of Aromatic C-H Bonds with 4-Acyl-1-mesyl-1,2,3-triazoles (Grad. Sch. Eng., Kyoto Univ.) ○ZHAO, Qiang; MIURA, Tomoya; MURAKAMI, Masahiro
- 4E2-06** Synthesis of Isoquinoline Derivatives Catalyzed by RhCp*[†]-linked β -barrel Protein. (Grad. Sch. Eng., Osaka Univ.) ○KATO, Shunsuke; TACHIKAWA, Kengo; ONODA, Akira; NAKAO, Yoshiaki; HAYASHI, Takashi

Chair: NOGI, Keisuke (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4E2-08, 4E2-09, 4E2-10, 4E2-11, 4E2-12, 4E2-13)
- 4E2-08** Hydrosilylation of cyclic olefins with alkoxyhydrosilanes (IRC3, AIST) ○HAYASHI, Kazushi; MATSUMOTO, Kazuhiro; NAKAJIMA, Yumiko; SATO, Kazuhiko; SHIMADA, Shigeru
- 4E2-09** The Rhodium Catalyzed Direct C-H Bond Carboxylation of Simple Arenes by Using Polystyrene-Cross-Linking Bisphosphine Ligand (Sch. Sci., Tokyo Tech.; Fac. Sci., Hokkaido Univ.) ○SAITOU, Takanobu; TAKAYA, Jun; ASANO, Kiichi; CHIBA, Shigenori; IWAI, Tomohiro; SAWAMURA, Masaya; IWASAWA, Nobuharu
- 4E2-10** Rh-catalyzed Cyclization of 1-[*o*-(Bromoethynyl)phenyl]alkyl Methyl Ethers with Retention of Their Optical Activity (Sch. Life Sci. Tech., Tokyo Tech.) ○IKEDA, Joe; SUGANO, Goshi; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
- 4E2-11** Stereoselective Preparation of Pyrrolidines with a Rhodium Catalyst and Sulfonyltriazoles (Sch. Life Sci. Tech., Tokyo Tech.) WATABE, Kaori; ○MASUYAMA, Airi; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
- 4E2-12** Formation of substituted naphthalenes via rhodium(I)-catalyzed arylative cyclization of β -alkynyl ketones (Fac. Sci., TUS) ○IZUTSU, Takashi; MATSUDA, Takanori
- 4E2-13** Synthesis of Quinoidal Fused Oligosiloles by Stitching Reaction and Investigation of Their Properties (School of Engineering, The University of Tokyo) ○TSUDA, Tomohiro; SHINTANI, Ryo; NOZAKI, Kyoko

Chair: HATA, Takeshi (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4E2-15, 4E2-16, 4E2-17, 4E2-18, 4E2-19, 4E2-20)
- 4E2-15** Rhodium-catalyzed Decarbonylative Annulation of Biarylcarboxylic Acids and Alkynes Leading to Phenanthrene Derivatives (Grad. Sch. Sci., Osaka Pref. Univ.) FUKUYAMA, Takahide; ○SAKATE, Takuya; RYU, Ilhyong
- 4E2-16** Rh-Catalyzed Synthesis of Quinolinone Derivatives by Carboamination of Anthranilic Acids to Alkynes (Grad. Sch. Sci., Osaka Pref. Univ.) FUKUYAMA, Takahide; ○FURUKAWA, Takuhiro; RYU, Ilhyong
- 4E2-17** Rh-Catalyzed Synthesis of Thiochromenone Derivatives from Thio-salicylic Acids with Alkynes (Grad. Sch. Sci., Osaka Pref. Univ.) FUKUYAMA, Takahide; ○SUGIMORI, Taiki; RYU, Ilhyong
- 4E2-18** Rhodium-Catalyzed Endo-Selective Reaction of *ortho* C-H Bonds in Aromatic Amides with Norbornene (Grad. Sch. Eng., Osaka Univ.) ○NATSUI, Satoko; SHIBATA, Kaname; CHATANI, Naoto
- 4E2-19** Rhodium-Catalyzed Reaction of *ortho* C-H Bonds in Aromatic Amides with Unactivated Alkenes Using a Bidentate Directing Group (Grad. Sch. Eng., Osaka Univ.) ○YAMAGUCHI, Takuma; CHATANI, Naoto
- 4E2-20[†]** Rhodium-Catalyzed Reaction of *ortho* C-H Bonds in Aromatic Amides with Alkynes Using a Bidentate Directing Group (Grad. Sch. Eng., Osaka Univ.) ○SHIBATA, Kaname; NATSUI, Satoko; CHATANI, Naoto

Room E3

Fourth Building Independence Wing
D304

Organic Chemistry -Reaction and Synthesis-
Aliphatic and Alicyclic Compounds

Friday, March 17, PM

Chair: OKAUCHI, Tatsuo (14 : 30~15 : 20)

- * 14:20-14:30: interval for laptop PC connection.(2E3-34, 2E3-35, 2E3-36, 2E3-38)
- 2E3-34** Addition Effect of Thiols for Borohydride-Mediated Reductive Decyanation (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○ORITANI, Kyohei; KAWAMOTO, Takuji; KAMIMURA, Akio; CURRAN, Dennis, P.
- 2E3-35** Halo-Selective Substitution Reaction of α -Bromocarbonyl Compounds with Silyl Enol Ethers Using Organic Photoredox Catalyst toward Synthesis of 1,4-Dicarbonyl Compounds (Grad. Sch. Eng., Osaka Univ.) ESUMI, Naoto; ○SUZUKI, Kensuke; NISHIMOTO, Yoshihiro; YASUDA, Makoto
- 2E3-36[†]** Generation of Imidoyl Radicals from Imidoylsilanes by means of Photo-Induced Single Electron Transfer Reaction and Their Coupling

- 2E4-42** Synthesis and Absorption Properties of Novel Dithienosilole Dimers Bearing Electron Accepting Moieties (Grad. Sch. Eng., Osaka Pref. Univ.)
○BAN, Ayaka; MAEDA, Takeshi; YAGI, Shigeyuki
- 2E4-43** Synthesis of rhodanine-containing dibenzo-BODIPY for application in photoelectrochemical cells (Grad. Sch. Urban Environmental Sci., TMU; TMUReHES; Nippon Kayaku Co. Ltd.) ○HIGASHINO, Yuta; SURYANI, Okta; MULYANA, Yan Jacob; KUBO, Yuji; KANEKO, Masayoshi; SHIGAKI, Koichiro
- 2E4-44** Luminescence Properties of Water-soluble Tetraphenylethylene Bearing Sulfonate Group (Fac. Eng., Hiroshima Univ.) ○SUGINO, Michitaka; OYAMA, Yousuke; OHSHITA, Joji
- 2E4-45** Coumarin-quinoxaline dyad as a fluorescent receptor for cyanide anion in neutral media (RCSE, Osaka Univ.) ○HAYASHI, Naoto; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 2E4-46** Proton Tautomerism of a Phenol-Linked Imidazole Derivative with a Pyrenyl Moiety (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KOMETANI, Aya; MUTOH, Katsuya; KOBAYASHI, Yoichi; ABE, Jiro

Chair: OHSHITA, Joji (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(2E4-48, 2E4-49, 2E4-50, 2E4-51, 2E4-52)
- 2E4-48** Synthesis and photophysical properties of pyrrole-fused BODIPY dyes (Fac. Eng., Gifu Univ.) KUBOTA, Yasuhiro; ○KOIDE, Kenta; FUNABIKI, Kazumasa; INUZUKA, Toshiyasu; MATSUI, Masaki
- 2E4-49[#]** Synthesis and properties of liquid pyrazine dyes (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○LEE, Jaeyoung; MATSUMOTO, Shinya
- 2E4-50** The investigation of the amorphous black solids prepared from bisphenol-S type developers and a fluoran dye (Sch.Eng.Sci;Sup Cen for Gen Equ.,Yokohama Natl. Univ.; Fun Che R&D Lab; Fun Che Gro.,Nippon Kayaku Co. Ltd.) ○KIKUCHI, Takuya; OHASHI, Tatsuya; GONTANI, Saori; MIYANAGA, Kyohei; KURATA, Takaaki; AKATANI, Yoshiki; MATSUMOTO, Shinya
- 2E4-51** Synthesis and Properties of pH-Responsive Cy5 - Fluorescein Dyad (Sch. Eng., Kyoto Univ.) MIKI, Koji; ○OE, Masahiro; KOJIMA, Kentarou; OHE, Kouichi
- 2E4-52** Improved Stability of β -Carotene by Intercalation in Organoclay (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○TAGUCHI, Taiga; SHIBATA, Masashi; KOHNO, Yoshiumi; MAEDA, Yasuhisa

Saturday, March 18, AM

Sensors

Chair: TOMA, Mana (9 : 00 ~9 : 40)

- * 8:50-9:00: interval for laptop PC connection.(3E4-01, 3E4-02, 3E4-03, 3E4-04)
- 3E4-01[#]** Design of a graphene-based waveguide-integrated photonic gas sensor (Grad. Sch. Sci., The Univ. of Tokyo) ○CHENG, Zhenzhou; XIAO, Tinghui; GODA, Keisuke
- 3E4-02** Development of polymer-nanosheet electrodes for measuring neuronal signals (Center for Advanced Bio. Sci., Waseda Univ.) ○KOKUBO, Nana; YAMAGISHI, Kento; TAKEOKA, Shinji; OHTA, Hiroyuki; FUJIE, Toshinori
- 3E4-03** Development of convenient method for the detection of A β using AIE dyes (FIRST, Konan Univ.) ○TAKAYA, Hoshikawa; MURASHIMA, Takashi
- 3E4-04** Fabrication of fluorescent sensor nanosheets for pH mapping (Center for Advanced Bio. Sci., Waseda Univ.) ○SOMEYA, Daichi; YAMAGISHI, Kento; FUJIE, Toshinori; TAKEOKA, Shinji

Saturday, March 18, PM

Chair: TORIMOTO, Tsukasa (12 : 40~13 : 40)

- * 12:30-12:40: interval for laptop PC connection.(3E4-23, 3E4-25)
- 3E4-23*** Application of polydopamine coatings for surface plasmon enhanced fluorescence biosensors (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TOMA, Mana; TAWA, Keiko
- 3E4-25** CSJ Award for Technical Development Development of the Ultra-Low Power Thin Film Gas Sensor (Osaka Gas Co., Ltd.; FUJI ELECTRIC CO., LTD.) ○OHNISHI, Hisao; NONAKA, Atsushi; SUZUKI, Takuya; MURATA, Naoyoshi

Materials/measurements in environments

Chair: SUZUKI, Shushi (13 : 50~14 : 30)

- * 13:40-13:50: interval for laptop PC connection.(3E4-30, 3E4-32)
- 3E4-30*** Relative Breakthrough Time of Organic Vapor in Activated Carbon Beds (JOHAS) ○ABIKO, Hironobu; FURUSE, Mitsuya; TAKANO, Tsuguo
- 3E4-32*** Adsorption characteristics of Prussian Blue nanoparticles to metal ions for developing the vitrification processes of high-level radioactive liquid wastes (Grad. Sch. Eng., Nagoya Univ.) ○ONOE, Jun; WATANABE, Shinta; SAWADA, Yuki; SATO, Toshikazu; YOSHINO, Masahito; NAKAYA, Masato; INABA, Yusuke; TAKAHASHI, Hideharu; TAKESHITA, Kenji

Materials for Displays

Chair: KOBAYASHI, Norihisa (14 : 40~15 : 30)

- * 14:30-14:40: interval for laptop PC connection.(3E4-35, 3E4-37, 3E4-38, 3E4-39)
- 3E4-35[#]** Development of Phosphorescent Janus-Dendrimer: Organoiridium (III) Complex Bearing Hole- and Electron-Transporting Dendrons (Grad. Sch. Eng., Osaka Pref. Univ.) ○OKAMURA, Naoki; MAEDA, Takeshi; YAGI, Shigeyuki
- 3E4-37** Synthesis and Luminescence Properties of Novel Phosphorescent Organoiridium Complexes Bearing Phosphine Sulfide Moieties (Grad. Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Sci., Eng., Ehime Univ.) ○KONO, Ryota; OKAMURA, Naoki; MAEDA, Takeshi; YAGI, Shigeyuki; HAYASHI, Minoru
- 3E4-38** Luminescence Properties of Red Phosphorescent Organoiridium Complexes Bearing Dibenzoylmethanate Ancillary Ligands: Effects of Substitution on the Ancillary Ligand (Grad. Sch. Eng., Osaka Pref. Univ.; Tanaka kikinokogyo) ○TAKAHASHI, Yuya; SUN, Liwen; YAMASHITA, Kohei; MAEDA, Takeshi; YAGI, Shigeyuki; MASAHIRO, Yasushi
- 3E4-39** Luminescent Properties of Novel Red Phosphorescent Organoiridium Complexes Bearing Bulky Alkoxy Groups on a Dibenzoylmethanate Ancillary Ligand (Grad. Sch. Eng., Osaka Pref. Univ.; Tanaka kikinokogyo) ○YAMASHITA, Kohei; TAKAHASHI, Yuya; MAEDA, Takeshi; YAGI, Shigeyuki; MASAHIRO, Yasushi

Chair: YAGI, Shigeyuki (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(3E4-41, 3E4-42, 3E4-43, 3E4-44, 3E4-46)
- 3E4-41** Improvement of retention time of colored state in Ag deposition-based electrochromic device by introducing anion exchange membrane. (Fac. Eng., Chiba Univ.) ○KIMURA, Shunsuke; HONG, Jineui; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 3E4-42** Shape and size control of deposited Ag nanoparticles in Ag deposition-based electrochromic device and improvement of color appearance (Fac. Eng., Chiba Univ.) ○SUGITA, Tomoko; TEJIMA, Riho; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 3E4-43** Characterization of Light-Emitting Electrochemical Cells Fabricated with Polymeric Solid Electrolytes Based on PMMA Derivatives. (Sch. Advanced Sci. Eng., Waseda Univ.) ○SAKAMOTO, Masaki; NISHIKITANI, Yoshinori; UCHIDA, Soichi; NISHIMURA, Suzushi; NISHIDE, Hiroyuki
- 3E4-44*** Device integration with AC-driven electrochemiluminescence from Ru (II) complex and silver electrodeposition based plasmonic light modulation system (Grad. Sch. Adv. Integration Sci., Chiba Univ.; Fac. Eng., Chiba Univ.) ○TSUNEYASU, Shota; KAWARA, Masashi; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 3E4-46** Development of ionic liquids for the Use of Conducting-Bridge Random Access Memory (Grad. Sch. Eng., Tottori Univ.) ○YAMAOKA, Hiroki; SAKAGUCHI, Atsushi; YAMASHITA, Takuya; KINOSHITA, Kentaro; KISHIDA, Satoru; ITOH, Toshiyuki

Battery/electrical cell

Chair: NAKAMURA, Junji (16 : 50~17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(3E4-48, 3E4-50, 3E4-51, 3E4-53)
- 3E4-48[#]** Development of New Pt/Rh/SnO₂ Nanoparticle Catalysts for Complete Ethanol Oxidation Reaction (Grad. Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Osaka Pref. Univ.) ○MAI, Phuong Tu; CHIKU, Masanobu; HIGUCHI, Eiji; INOUE, Hiroshi
- 3E4-50** Development of High-performance Rechargeable Batteries by Using MOF Including Disulfide Ligands as Cathode Active Materials (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○SHIMIZU, Takeshi; WANG, Heng; YOSHIKAWA, Hirofumi
- 3E4-51[#]** Porous materials and their applications in Li-sulfur batteries (RCMS, Nagoya Univ.) ○ZHANG, Zhongyue; WU, Yang; AWAGA, Kunio
- 3E4-53** Positive Electrode Properties in Hydrogel Electrolyte for Aqueous Lithium-Air Batteries (Grad. Sch. Eng., Osaka Pref. Univ.) ○NAITOU, Mayu; CHIKU, Masanobu; HIGUCHI, Eiji; INOUE, Hiroshi

Chair: YOSHIKAWA, Hirofumi (18 : 00~18 : 40)

- * 17:50-18:00: interval for laptop PC connection.(3E4-55, 3E4-56, 3E4-57, 3E4-58)
- 3E4-55** Morphology of Electrodeposited Lithium and Effect of Additives in Lithium bis(fluorosulfonyl) amide / Ether -based Electrolyte (Fac. Eng., Mie Univ.) ○MATSUMOTO, Mistuhiro; INAGAKI, Toru; YAGASAKI, Eriko; IMANISHI, Nobuyuki
- 3E4-56[#]** Electrochemical property of LiNi_xMn_{1-x}O₂ thin films fabricated using molecular precursor method (Kogakuin Univ.) ○SANO, Ryo; NAGAI, Hiroki; SATO, Mitsunobu
- 3E4-57** Design of fuel cell cathode catalyst using pyridic nitrogen-containing molecule (Sch. Sci. Eng., Univ. of Tsukuba) ○SHIMOYAMA, Yuto; SHIBUYA, Riku; KONDO, Takahiro; MORI, Toshiyuki; NAKAMURA,

Junji

3E4-58 Formic acid oxidation activity of palladium-based catalysts in basic medium (Kobe City Coll. Technol.) ○MOTOISHI, Yuki; KUGAI, Junichiro

Room E5

Fourth Building Independence Wing
D307

Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Thursday, March 16, AM

Chair: HIRANO, Koji (9 : 00 ~ 9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(1E5-01, 1E5-02, 1E5-03, 1E5-04, 1E5-05)
- 1E5-01** Nitroxyl Catalyzed Bromo-esterification of Alkenes through Activation of Halogen Reagent (Grad. Sch. Sci., Chiba Univ.; Grad. Sch. Sci., Chiba Univ.) ○KURAMOCHI, Masako; MORIYAMA, Katsuhiko
- 1E5-02** Development of asymmetric epoxidation reaction of 1,4-naphthoquinone derivatives using guanidine-bisurea bifunctional organocatalyst (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KAWAGUCHI, Masaki; ODAGI, Minami; NAGASAWA, Kazuo
- 1E5-03** Tetraarylphosphonium Salt-Catalyzed Synthesis of *N*-Aryl-Substituted Oxazolidinones from Epoxides and Aryl Isocyanates (Fac. Eng., Shinshu Univ.) ○GOMYU, Shuto; TANAKA, Shoya; KOMIYAMA, Yutaka; TODA, Yasunori; SUGA, Hiroyuki
- 1E5-04** A Tetraarylphosphonium Betaine as an Ionic Catalyst for Selective Acylation of Primary Alcohols (Fac. Eng., Shinshu Univ.) ○SAKAMOTO, Tomoyuki; KOMIYAMA, Yutaka; TODA, Yasunori; SUGA, Hiroyuki
- 1E5-05** Mechanistic Aspect of Photoinduced α -Oxyamination of Aldehydes Catalyzed by Flavin-Amine Integrated Molecules (Fac. Sci. Technol., Tokushima Univ.) ○TAGAMI, Takuma; ARAKAWA, Yukihiro; MINAGAWA, Keiji; IMADA, Yasushi

Chair: ARAKAWA, Yukihiro (10 : 00 ~ 11 : 00)

- * 9:50-10:00: interval for laptop PC connection.(1E5-07, 1E5-09, 1E5-10, 1E5-11)
- 1E5-07** Highly selective activation of glycidol and catalytic transesterification using quaternary ammonium salts (IRC3, AIST) ○TANAKA, Shinji; KON, Yoshihiro; TAMURA, Masanori; SATO, Kazuhiko
- 1E5-09** Asymmetric Cycloetherification of 1,3-Diols Using Bifunctional Organocatalysts (Grad. Sch. Eng., Kyoto Univ.) ○FUJII, Yuki; ASANO, Keisuke; MATSUBARA, Seijiro
- 1E5-10** Enantioselective Cyclization of Symmetric 1,5-Diketones Using Bifunctional Organocatalysts (Grad. Sch. Eng., Kyoto Univ.) ○KURIMOTO, Yosuke; FUJII, Yuki; ASANO, Keisuke; MATSUBARA, Seijiro
- 1E5-11** Construction of Axial Chirality via Selective Halogenation Using Bifunctional Organocatalysts (Grad. Sch. Eng., Kyoto Univ.) ○MIYAJI, Ryota; ASANO, Keisuke; MATSUBARA, Seijiro

Chair: ASANO, Keisuke (11 : 10 ~ 12 : 00)

- * 11:00-11:10: interval for laptop PC connection.(1E5-14, 1E5-15, 1E5-16, 1E5-17, 1E5-18)
- 1E5-14** Trityl Cation Organocatalysis: An Efficient Method for the Intramolecular Imino-Ene Cyclization at High Pressure (Fac. Sci., Kochi Univ.) ○MURAKAMI, Hiroki; KOTSUKI, Hiroyoshi
- 1E5-15** Brønsted-Base-Catalyzed Stereoselective Diphosphination of Terminal Alkynes with Diphosphanes (Grad. Sch. Eng., Osaka Univ.) ○OKUGAWA, Yuto; HIRANO, Koji; MIURA, Masahiro
- 1E5-16** Chiral Brønsted Base-Catalyzed Enantioselective Formal [3+2]-Cycloaddition for Construction of Quaternary Stereogenic Center (Grad. Sch. Sci., Tohoku Univ.) ○AKAHIRA, Shiori; OISHI, Masafumi; KONDOH, Azusa; TERADA, Masahiro
- 1E5-17** Chiral Strong Brønsted Acid Catalyzed Asymmetric Addition Reaction of Azlactone to Styrene Derivatives (Grad. Sch. Sci., Tohoku Univ.) ○KIKUCHI, Jun; TERADA, Masahiro
- 1E5-18** Development of Chiral Brønsted Acid Catalyst Activated by Cationic Subunit Through Intramolecular Hydrogen Bond (Grad. Sch. Sci., Tohoku Univ.) ○EGAWA, Fuyuki; SHIMIZU, Masahiro; KIKUCHI, Jun; KONDOH, Azusa; TERADA, Masahiro

Thursday, March 16, PM

Chair: OOI, Takashi (13 : 30 ~ 14 : 00)

- * 13:20-13:30: interval for laptop PC connection.(1E5-28)
- 1E5-28** Young Scholar Lectures of CSJ Development of Efficient and Extremely Active Organocatalytic System (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○MANDAI, Hiroki

Chair: SHIRAKAWA, Seiji (14 : 10 ~ 15 : 00)

- * 14:00-14:10: interval for laptop PC connection.(1E5-32, 1E5-34, 1E5-35, 1E5-36)
- 1E5-32** Enantioselective Steglich rearrangement of benzofuranone derivatives with highly active chiral nucleophilic catalysts (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○FUJII, Kazuki; MANDAI, Hiroki; SUGA, Seiji
- 1E5-34** Enantioselective Addition of Allylic Silanes with α -Ketoesters Induced by *n*-Cation Catalyst (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○NIWA, Yutaro; SAKAKURA, Akira
- 1E5-35** Enantioselective Bromocyclization of 2-Geranylphenols Promoted by Chiral Phosphite-Chiral Urea Combined Catalysts (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○TERAZAKI, Miyuki; CHO, Yumeka; SAKAKURA, Akira
- 1E5-36** Enantioselective 1,3-Dipolar Cycloaddition of α -Acyloxyacroleins with Nitrones Catalyzed by Chiral Ammonium salts (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KIDOU, Chihiro; SAKAKURA, Akira

Chair: OHMATSU, Kohsuke (15 : 10 ~ 16 : 00)

- * 15:00-15:10: interval for laptop PC connection.(1E5-38, 1E5-39, 1E5-40, 1E5-41, 1E5-42)
- 1E5-38** Phosphine-catalyzed Anti-Carboration of Alkynoates with 1,1-Diborylalkanes: Synthesis of γ -Boron-substituted Allylboranes (Fac. Sci., Hokkaido Univ.) ○YAMAZAKI, Ayaka; NAGAO, Kazunori; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 1E5-39** Hydrogen-Bonding Catalysis of Quaternary Ammonium Salts in an Aza-Diels-Alder Reaction (Grad. Sch. Fish. & Env. Sci., Nagasaki Univ.; Dep. Chem., Sch. Sci., Kyoto Univ.) ○KUMATABARA, Yusuke; MARUOKA, Keiji; SHIRAKAWA, Seiji
- 1E5-40** Sulfonium Salts as Hydrogen-Bonding Catalysts (Grad. Sch. Fish. & Env. Sci., Nagasaki Univ.; Dep. Chem., Sch. Sci., Kyoto Univ.) ○KANEKO, Shioh; MARUOKA, Keiji; SHIRAKAWA, Seiji
- 1E5-41** Design of Bifunctional Quaternary Phosphonium Salt Catalysts for Carbon Dioxide Fixation Reaction (Grad. Sch. Fish. & Env. Sci., Nagasaki Univ.; Dep. Chem., Sch. Sci., Kyoto Univ.) ○LIU, Shiyao; MARUOKA, Keiji; SHIRAKAWA, Seiji
- 1E5-42** Asymmetric Michael addition of β -ketoesters with nitroolefins by optically active amino alcohol organocatalyst (Sch. Eng., Muroran Inst. of Tech.) ○SANNABE, Haruka; MIZUSHIMA, Ryosuke; SEKI, Chigusa; OKUYAMA, Yoko; KWON, Eunsang; UWAI, Koji; NAKANO, Hiroto

Chair: MAKIDA, Yusuke (17 : 20 ~ 18 : 00)

- * 17:10-17:20: interval for laptop PC connection.(1E5-51, 1E5-53, 1E5-54)
- 1E5-51** Photoexcited Ketone Catalyzed C-H Imidation of Arenes (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○OHTANI, Tsuyoshi; CHANDRA, Bhusan Tripathi; MICHEL, Thomas Corbett; OOI, Takashi
- 1E5-53** Catalysis of Photo-Excited Imine for Organic Transformations (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○TSUCHIYA, Yuto; OHTANI, Tsuyoshi; URAGUCHI, Daisuke; OOI, Takashi
- 1E5-54** Stereoselective Mannich-Type Reaction of Dihydroquinolinone under the Catalysis of Chiral Ammonium Betaine (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○KATO, Kohsuke; TORII, Masahiro; URAGUCHI, Daisuke; OOI, Takashi

Chair: NAKANO, Hiroto (18 : 10 ~ 19 : 00)

- * 18:00-18:10: interval for laptop PC connection.(1E5-56, 1E5-57, 1E5-59, 1E5-60)
- 1E5-56** Asymmetric Strecker Reaction of Ketimines with Potassium Cyanide (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○MORITA, Yusuke; OHMATSU, Kohsuke; OOI, Takashi
- 1E5-57** Dynamic Kinetic Resolution of *N*-Unprotected Amino Esters (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○NAGATO, Yuya; OHMATSU, Kohsuke; OOI, Takashi
- 1E5-59** Direct Catalytic Asymmetric α -Amination of β -Ketoesters and α -Cyanoesters (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○NAKASHIMA, Tsubasa; OHMATSU, Kohsuke; OOI, Takashi
- 1E5-60** Catalytic Asymmetric Direct α -Hydroxylation of *N*-Boc Oxindoles (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○ANDO, Yuichiro; OHMATSU, Kohsuke; OOI, Takashi

Friday, March 17, AM

Chair: HATANO, Manabu (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2E5-01, 2E5-02, 2E5-04, 2E5-05)
- 2E5-01** Theoretical study of the spiro chiral iminophosphorane catalyzed Michael reaction of azlactones to methyl propiolate (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST; Coll. Sci., Rikkyo Univ.) ○SATO, Makoto; YAMANAKA, Masahiro
- 2E5-02** Development and Theoretical Analysis of Catalytic Asymmetric Glycolate Aldol Reaction via Intramolecular Acyl Migration Process (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○YAMADA, Kohei; SATO, Makoto; URAGUCHI, Daisuke; OOI, Takashi

2E5-04 1,6-Selective Michael Addition of Alkenyl Dienyl Ketones Under the Catalysis of Chiral Iminophosphorane (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○YOSHIOKA, Ken; URAGUCHI, Daisuke; OOI, Takashi

2E5-05* Halogen-Bond Donor-Accelerated Allyl-, Crotyl-, Prenylation Reaction of *N*-Heteroaromatics catalyst. (LCCMS, IMS) ○IZUMISEKI, Atsuto; MOMIYAMA, Norie

Chair: URAGUCHI, Daisuke (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2E5-08, 2E5-10, 2E5-11, 2E5-13)

2E5-08** Boron Tribromide-Assisted Chiral Phosphoric Acid Catalysts for Enantioselective [4 + 2] and [2 + 2] Cycloaddition Reactions (Grad. Sch. Eng., Nagoya Univ.) ○GOTO, Yuta; HATANO, Manabu; ISHIIHARA, Kazuaki

2E5-10 Tris(pentafluorophenyl)borane-Assisted Chiral Phosphoric Acid Catalysts for Enantioselective Carbonyl-Ene Cyclization (Grad. Sch. Eng., Nagoya Univ.) ○ISHIHARA, Hideyuki; HATANO, Manabu; ISHIIHARA, Kazuaki

2E5-11** Chiral Nucleophilic Amidophosphate-Catalyzed Enantioselective Iodocyclization (Grad. Sch. Eng., Nagoya Univ.) ○LU, Yanhui; NAKATSUJI, Hidefumi; OKUMURA, Yukimasa; ISHIIHARA, Kazuaki

2E5-13 Halogen-based Lewis Acid-Thiourea Lewis Base Cooperative Catalysts for Iodochlorination of Alkenes (Grad. Sch. Eng., Nagoya Univ.) ○TSUJI, Yasutaka; HORIBE, Takahiro; ISHIIHARA, Kazuaki

Chair: MANDAI, Hiroki (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(2E5-15, 2E5-17, 2E5-18, 2E5-19)

2E5-15** Chiral Binaphthylsulfonate Cluster Catalysts for Enantioselective Addition-Cyclization Cascade Reaction of Styrenes with Aldimines (Grad. Sch. Eng., Nagoya Univ.) ○NISHIKAWA, Keisuke; HATANO, Manabu; ISHIIHARA, Kazuaki

2E5-17 Enantioselective Aza-Friedel-Crafts Reaction of Indoles with Ketimines Catalyzed by Chiral Potassium Binaphthylsulfonates (Graduate School of Engineering, Nagoya Univ.) ○MOCHIZUKI, Takuya; HATANO, Manabu; ISHIIHARA, Kazuaki

2E5-18 Enantioselective Strecker-type Reaction of Aldimines Catalyzed by Chiral Lithium Binaphthylsulfonates (Graduate School of Engineering, Nagoya Univ.) ○NISHIO, Kosuke; NISHIKAWA, Keisuke; HATANO, Manabu; ISHIIHARA, Kazuaki

2E5-19 New design of halogen-bonding donors and their application for catalytic reaction (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○UNO, Hiroto; MATSUZAKI, Kohei; TOKUNAGA, Etsuko; SHIBATA, Norio

Friday, March 17, PM

Chair: KIYOKAWA, Kensuke (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(2E5-34, 2E5-35, 2E5-36, 2E5-37, 2E5-38, 2E5-39)

2E5-34 Hypoiodite-catalyzed Oxidative Tandem Reactions via *ortho*-Quinone Methides (Grad. Sch. Eng., Nagoya Univ.) ○NISHIOKA, Kohei; UYANIK, Muhammet; ISHIIHARA, Kazuaki

2E5-35 Chiral Hypoiodite-catalyzed Enantioselective Oxidative Dearomatization to Azaspiroindolenine Derivatives (Grad. Sch. Eng., Nagoya Univ.) ○UKEGAWA, Naoya; UYANIK, Muhammet; ISHIIHARA, Kazuaki

2E5-36 Chiral Hypoiodite-catalyzed Enantioselective Oxidative Cascade Cyclization (Grad. Sch. Eng., Nagoya Univ.) ○IWATA, Hirokazu; UYANIK, Muhammet; ISHIIHARA, Kazuaki

2E5-37 Oxidative Cleavage of 1,2-Diamines Catalyzed by Triarylbi-sulfur (Grad. Sch. Eng., Osaka Univ.) NISHIMOTO, Yoshihiro; ○NAKAO, Shuichi; YASUDA, Makoto

2E5-38 Simple and Easy Oxidation Reactions Using Bismuth Salt as a Catalyst (Faculty of Science and Technology, Tokushima University) ○UENO, Masaharu; KITA, Akiko; MUROI, Tyouki; OHMURA, Satoshi; WADA, Makoto; MIYOSHI, Norikazu

2E5-39 Development of the Environmentally Benign Ritter Reaction Using Bismuth Salt as a Catalyst (Fac. Integrated Arts Sci., Tokushima Univ.) ○KUSAKA, Ryo; OHMURA, Satoshi; MIYOSHI, Norikazu; UENO, Masaharu

Chair: HASHIMOTO, Takuya (15 : 40~16 : 30)

* 15:30-15:40: interval for laptop PC connection.(2E5-41, 2E5-43, 2E5-44, 2E5-45)

2E5-41** IBS-Catalyzed Site-selective Oxidation of Phenols to 1,2-Quinols (Grad. Sch. Eng., Nagoya Univ.) ○MUTSUGA, Tatsuya; UYANIK, Muhammet; ISHIIHARA, Kazuaki

2E5-43 Chiral Hypervalent Iodine(III)-catalyzed Enantioselective Oxidative Spirolactonization of Biaryl Hydroxy Carboxylic Acids (Grad. Sch. Eng., Nagoya Univ.) ○SAEDA, Kirara; UYANIK, Muhammet; ISHIIHARA, Kazuaki

2E5-44 Intramolecular C-H Amination of Sulfamate Esters Using *tert*-Butyl Hypoiodite (Grad. Sch. Eng., Osaka Univ.) ○IWAIDA, Kohji; KIYOKAWA, Kensuke; MINAKATA, Satoshi

2E5-45 Oxidation of benzylamines by ClO₂ (Grad. Sch. Fac. Sci., Kanagawa

Univ.) ○ITO, Daiki; KIHARA, Nobuhiro

Chair: OHMURA, Satoshi (16 : 40~17 : 30)

* 16:30-16:40: interval for laptop PC connection.(2E5-47, 2E5-48, 2E5-49, 2E5-50)

2E5-47 Guanidinium-iodide/TBHP-catalyzed spirolactamization of oxindole at C3 position (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KATO, Takanari; YASUI, Koji; NAGASAWA, Kazuo

2E5-48 Chiral selenium-catalyzed enantioselective synthesis of amides (Dep. Chem., Sch. Sci., Kyoto Univ.) ○NAGAOKA, Hitoshi; HASHIMOTO, Takuya; MARUOKA, Keiji

2E5-49 Design of new chiral iodine catalyst based on indanol scaffold (Fac. Sci., Kyoto Univ.) ○SHIMAZAKI, Yuto; OMATSU, Yamato; HASHIMOTO, Takuya; MARUOKA, Keiji

2E5-50** Enantioselective Williamson ether synthesis by chiral ammonium borate co-catalysis (Dep. Chem., Sch. Sci., Kyoto Univ.) ○PAWLICZEK, Martin; HASHIMOTO, Takuya; MARUOKA, Keiji

Saturday, March 18, AM

Chair: NISHIMOTO, Yoshihiro (9 : 00~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3E5-01, 3E5-02, 3E5-03, 3E5-05, 3E5-06)

3E5-01 High-Performance Hypoiodite Catalysis for Oxidative α -Azidation of Carbonyl Compounds (Grad. Sch. Eng., Nagoya Univ.) ○SAHARA, Naoto; HATTORI, Yuhei; TSUKAHARA, Mayuko; UYANIK, Muhammet; ISHIIHARA, Kazuaki

3E5-02 Chiral Hypoiodite-catalyzed Enantioselective Oxidative Dearomatization of Phenols (Sch. Eng., Nagoya Univ.) ○KATADE, Outa; SAHARA, Naoto; UYANIK, Muhammet; ISHIIHARA, Kazuaki

3E5-03** Ritter-Type Amination of C-H Bonds at Tertiary Carbon Centers Using Iodic Acid as an Oxidant (Grad. Sch. Eng., Osaka Univ.) ○KIYOKAWA, Kensuke; TAKEMOTO, Kenta; MINAKATA, Satoshi

3E5-05 Decarboxylative Ritter-Type Amination Using Hypervalent Iodine Reagents (Grad. Sch. Eng., Osaka Univ.) ○WATANABE, Tomoki; KIYOKAWA, Kensuke; MINAKATA, Satoshi

3E5-06 Oxygenation of C-H Bonds at Tertiary Carbon Centers Using Iodine Pentoxide (Grad. Sch. Eng., Osaka Univ.) ○ITO, Ryo; TAKEMOTO, Kenta; KIYOKAWA, Kensuke; MINAKATA, Satoshi

Chair: UENO, Masaharu (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3E5-08, 3E5-09, 3E5-10)

3E5-08 I₂-Catalyzed Oxidative Vicinal Diamination of Olefins with a Sulfonamide as a Nitrogen Source (Grad. Sch. Eng., Osaka Univ.) ○MIWA, Hayato; MINAKATA, Satoshi

3E5-09 Stereoselective Aziridination of α, β -Unsaturated Carbonyl Compound with *tert*-Butyl Carbamate Utilizing Sodium Hypochlorite Pentahydrate (Grad. Sch. Eng., Osaka Univ.) ○UMEDA, Takehiro; MINAKATA, Satoshi

3E5-10* CSJ Award for Young Chemists Development of Selective Oxidation Reactions Using Designer Iodine Catalysts (Grad. Sch. Eng., Nagoya Univ.) ○UYANIK, Muhammet

Saturday, March 18, PM

Chair: AIKAWA, Kohsuke (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(3E5-25, 3E5-26, 3E5-27, 3E5-28, 3E5-29)

3E5-25 Investigation of the stability and reactivity of *p*-quinone monoacetals having fluorine atoms at the β position (Sch. Sci., Tokyo Tech.) ○ABE, Noriko; REINHARDT, Katja; MATSUSHITA, Kyohei; OHMORI, Ken; SUZUKI, Keisuke

3E5-26 Transformation of the Functionalized Monofluoromethyl Aromatics (Grad. Sch. Sci. Tech., Gunma Univ.) ○SHIMOKAWA, Ai; MORIOKA, Ryo; SUGIISHI, Tsuyuka; AMII, Hideki

3E5-27 Synthesis of optically active fluorinated carbohydrates via enzymatic kinetic resolution (Grad. Sch. Eng., Tottori Univ.) ○HAYASHI, Shiho; THUKAHARA, Ayana; TAKAYANAGI, Keisuke; NOKAMI, Toshiaki; ITOH, Toshiyuki

3E5-28 The development of asymmetric fluorination using noble phase-transfer catalyst (Univ. of Shizuoka) ○NIWA, Tomoki; SATO, Hitomi; HOTTA, Ryo; KAWATO, Yuji; EGAMI, Hiromichi; HAMASHIMA, Yoshitaka

3E5-29* Orbital theory in diastereoselectivity of electrophilic addition to 4-fluoro-1-methylenadamantane (Fac. Eng., Gifu Univ.) ○NARUSE, Yuji

Chair: NARUSE, Yuji (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(3E5-32, 3E5-33, 3E5-34, 3E5-35, 3E5-36, 3E5-37)

3E5-32 Carbon-carbon bond formation using aryldifluoromethyl anion species. (Grad. Sch. Sci. Tech., Gunma Univ.) ○KABUTOYA, Wataru; SUGIISHI, Tsuyuka; AMII, Hideki

3E5-33 S_N2' type alkylation of α -gem-difluoromethylene-substituted alkenes. (Grad. Sch. Eng., Tottori Univ.) ○TANAKA, Toshiaki; FURUKAWA, Yuji; MASUHARA, Yoshihiro; NOKAMI, Toshiaki; ITOH, Toshiyuki

- 3E5-34** Palladium-Catalyzed Aromatic Difluoromethylation using Difluoroiodomethane as Difluoromethyl Source (Grad. Sch. Sci., Eng., Tokyo Tech.)
○NITTA, Junki; AIKAWA, Kohsuke; MIKAMI, Koichi
- 3E5-35** Copper-Catalyzed Asymmetric Difluoromethylation with (Difluoromethyl)zinc Reagent (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○ISHII, Koki; AIKAWA, Kohsuke; MIKAMI, Koichi
- 3E5-36** Catalytic Asymmetric Synthesis of gem-Difluorinated Cyclopropanes (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○USHIYAMA, Aina; AIKAWA, Kohsuke; MIKAMI, Koichi
- 3E5-37** Iodine rearrangement of gem-difluorocyclopropane via ring-opening reaction by the visible light irradiation (Grad. Sch. Eng., Tottori Univ.) MASUHARA, Yoshihiro; ○TAKENAKA, Hiroaki; NOKAMI, Toshiaki; ITOH, Toshiyuki

Chair: SUGIISHI, Tsuyuka (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(3E5-39, 3E5-40, 3E5-41, 3E5-42, 3E5-43, 3E5-44)
- 3E5-39** Development of an easy synthetic method to gem-difluorocyclopropanes and their further transformation (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○GOTO, Toshihito; KAWASAKI-TAKASUKA, Tomoko; YAMAZAKI, Takashi
- 3E5-40** Synthesis of α -aryl- α -trifluoromethyl alcohols based on the reaction of functionalized aryl Grignard reagents with trifluoroacetic acid ester (Fac. Eng., Gifu Univ.) ○HAYAKAWA, Ayaka; FUNABIKI, Kazumasa; KUBOTA, Yasuhiro; INUZUKA, Toshiyasu; MATSUI, Masaki
- 3E5-41** Synthetic Study of Trifluoromethylation using Fluoroform (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○SAITO, Takuya; HIRANO, Kazuki; MATSUZAKI, Kohei; TOKUNAGA, Etsuko; SHIBATA, Norio
- 3E5-42** Benzylic C_{sp3}-H trifluoromethylation of benzophenones (Univ. of Shizuoka) ○IDE, Takafumi; MASUDA, Shuya; KAWATO, Yuji; EGAMI, Hiromichi; HAMASHIMA, Yoshitaka
- 3E5-43** Payne rearrangement of 3-CF₃-2,3-epoxyalcohols with a substituent at the 2-position (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.)
○TANAKA, Yuuki; KAWASAKI-TAKASUKA, Tomoko; YAMAZAKI, Takashi
- 3E5-44** Perfluoroalkylthiolation of Active Methylene Compounds under Mild Conditions with DAST reagents (Grad. Sch. Eng., Nagoya Inst. of Tech.)
○YOSHIOKA, Takuya; SAIDALIMU, Ibrayim; SUZUKI, Shugo; TOKUNAGA, Etsuko; SHIBATA, Norio

Chair: NOKAMI, Toshiaki (16 : 30~17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(3E5-46, 3E5-48, 3E5-49, 3E5-50, 3E5-51)
- 3E5-46*** Development of perfluoroalkylation of unactivated alkenes by using perfluoro acid anhydrides (RIKEN CSRS) ○KAWAMURA, Shintaro; SODEOKA, Mikiko
- 3E5-48** Synthesis of New Ir Photoredox Catalysts bearing Super Electron-withdrawing SF₅ group and visible-light reaction. (Lab. Chem. Life Sci., Tokyo Tech.) ○KONISHI, Yusuke; TOMITA, Ren; CHINZEI, Tatsuya; KOIKE, Takashi; AKITA, Munetaka
- 3E5-49** Photocatalytic Fluoromethylation of Olefins Using Perylene (Lab. Chem. Life Sci., Tokyo Tech.) ○NOTO, Naoki; KOIKE, Takashi; AKITA, Munetaka
- 3E5-50** Remarkable cross coupling reaction of tetrafluoroethylene-containing silyl reagent with various haloarenes (KIT) ○YAKUSHIJIN, Ryosuke; TAMAMOTO, Ken; YAMADA, Shigeyuki; KONNO, Tsutomu
- 3E5-51** Highly regioselective cobalt-catalyzed [2+2+2] cycloaddition reaction of various fluorine-containing alkynes (KIT) ○KUMON, Tatsuya; YAMADA, Shigeyuki; KONNO, Tsutomu

Chair: FUNABIKI, Kazumasa (17 : 40~18 : 40)

- * 17:30-17:40: interval for laptop PC connection.(3E5-53, 3E5-54, 3E5-56, 3E5-57, 3E5-58)
- 3E5-53** Study of visible photoinduced hydroperfluoroalkylation to terminal alkene using Eosin Y as a catalyst (Grad. Sch. Of Humanities and Sci., Ochanomizu Univ.) ○SHIGENAGA, Satsuki; YAJIMA, Tomoko
- 3E5-54*** Electrophilic Cyanation of Boron Enolates (Grad. Sch. Eng., Osaka Univ.) ○NAGATA, Takaya; KIYOKAWA, Kensuke; MINAKATA, Satoshi
- 3E5-56** Spontaneous absolute asymmetric synthesis of highly enantioenriched α -aminonitrile in the aqueous media (Grad. Sch. Eng., Univ. of Fukui)
○AIBA, Shohei; TAKAMATSU, Naoya; MIYAGAWA, Shinobu; KAWAMOTO, Hajime; TOKUNAGA, Yuji; KAWASAKI, Tsuneomi
- 3E5-57** Enantioselective Strecker Synthesis Using Enantiotopic Crystal Face of Achiral Intermediate Imine as a Source of Chirality (Grad. Sch. Eng., Univ. of Fukui) ○MIYAGAWA, Shinobu; YOSHIMURA, Kouji; YAMAZAKI, Yusuke; TAKAMATSU, Naoya; AIBA, Shohei; KURAISHI, Tetsuya; TOKUNAGA, Yuji; KAWASAKI, Tsuneomi
- 3E5-58** Highly Stereoselective Strecker Synthesis of α -Aminonitriles by the Enhancement of Solid-state Chirality (Grad. Sch. Eng., Univ. of Fukui)
○TAKAMATSU, Naoya; TOKUNAGA, Yuji; KAWASAKI, Tsuneomi

Sunday, March 19, AM

Chair: KITANOSONO, Taku (9 : 00~9 : 40)

- * 8:50-9:00: interval for laptop PC connection.(4E5-01, 4E5-02, 4E5-03, 4E5-04)
- 4E5-01** Biological Evaluation of the Modified Tamoxifen Derivatives Prepared by the Three-component Coupling Reaction among Aromatic Aldehydes, Allyltrimethylsilane and Methoxybenzene (Fac. Sci., TUS) SHIINA, Isamu; OTA, Nozomi; ○SHIBATA, Natsumi; TAKANO, Tomohiro; NAKATA, Kenya
- 4E5-02** Improved Synthesis of the Modified Tamoxifen Derivatives and Its Peptide Conjugated Compounds (Fac. Sci., TUS) SHIINA, Isamu; ○OTA, Nozomi; SHIBATA, Natsumi; MIZUSAWA, Akihito; NAKATA, Kenya
- 4E5-03** Aryl ketone-catalyzed allylation of C(sp³)-H bonds under photoirradiation (Fac. Sci., Yamaguchi Univ.) ○MARUOKA, Kiyotaka; KAMIJO, Kaori; MURAFUJI, Toshihiro; KAMIJO, Shin
- 4E5-04** Attempt of novel bis-sulfonimide-catalyzed asymmetric reaction (Fac. Sci., Hiroshima Univ.) ○YAMASAKI, Yuhei; TAKAGI, Ryukichi; ABE, Manabu

Chair: NAKATA, Kenya (9 : 50~10 : 30)

- * 9:40-9:50: interval for laptop PC connection.(4E5-06, 4E5-07, 4E5-08, 4E5-09)
- 4E5-06** Development of Catalytic Addition Reactions of Alkylarenes with Imines Using Strong Bases as Catalysts (Grad. Sch. Sci., The Univ. of Tokyo) ○SUZUKI, Hirotsugu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 4E5-07** Development of Catalytic Addition Reactions of Alkylarenes with Substituted Alkenes Using Strong Bases as Catalysts (Grad. Sch. Sci., The Univ. of Tokyo) ○SATO, Io; SUZUKI, Hirotsugu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 4E5-08** Development of Catalytic Allylation Reactions of Imines Using Simple Alkenes as Substrates (Grad. Sch. Sci., The Univ. of Tokyo) YAMASHITA, Yasuhiro; ○FUKUYAMA, Ryota; SATO, Io; KOBAYASHI, Shu
- 4E5-09** Heteropoly Acid Supported on Silica Gel Catalyzed the Asymmetric Transfer Allylation of Aromatic Aldehydes under Solvent-free Conditions (Fac. Sci., Kochi Univ.) ○NUNOKAWA, Shiori; OKI, Kazuya; YAMASHITA, Keisuke; OKUYAMA, Atsushi; UEDA, Tadaharu; KOTSUKI, Hiroyoshi

Sunday, March 19, PM

Chair: NISHII, Yoshinori (12 : 40~13 : 40)

- * 12:30-12:40: interval for laptop PC connection.(4E5-23, 4E5-24, 4E5-25, 4E5-26, 4E5-28)
- 4E5-23** Iron Catalyzed Hetero Diels-Alder Reaction (Grad. Sch. Eng., Kyoto Univ.) ○TOMIFUJI, Rei; KURAHASHI, Takuya; MATSUBARA, Seiji
- 4E5-24** Theoretical Study on the catalyst-controlled regioselective azamorita-Baylis-Hillman reactions (Grad. Sch. Sci., Rikkyo Univ.; ICR, Kyoto Univ.) ○NAKANO, Katsuhiko; GONDO, Naruhiko; HYAKUTAKE, Ryuichi; KAWABATA, Takeo; YAMANAKA, Masahiro
- 4E5-25** DFT Study of DTBM-BINAP-monoxide Catalyzed Asymmetric Bromocyclization (Grad. Sch. Sci., Rikkyo Univ.; Grad. Sch. med., Univ. of Shizuoka) ○KAMEI, Yuto; NAGAO, Yoshihiro; KAWATO, Yuji; HAMASHIMA, Yoshitaka; YAMANAKA, Masahiro
- 4E5-26*** Desymmetrization of Diolefinic Amides via Catalytic Enantioselective Bromocyclization (Univ. of Shizuoka; Grad. Sch. Sci., Rikkyo Univ.) ○KAWATO, Yuji; NAGAO, Yoshihiro; HISANAGA, Tatsunari; EGAMI, Hiromichi; KAMEI, Yuto; YAMANAKA, Masahiro; HAMASHIMA, Yoshitaka
- 4E5-28** Nucleophilic Additions of Quinolinones and Hydroxypyridines to Haloalkynes and Their Ambident Reactivity (Sch. Life Sci. Tech., Tokyo Tech.) ○SHIGETA, Masayuki; SAKAGUCHI, Eriko; HATA, Takeshi; URABE, Hirokazu

Chair: HATA, Takeshi (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(4E5-30, 4E5-31, 4E5-32, 4E5-34, 4E5-35)
- 4E5-30** Construction of Seven-membered Carbocycles from 3-Dimethylaminopropionitrile (Sch. Sci., Hokkaido Univ.; Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○UDA, Shoko; DOMON, Daisuke; TANINO, Keiji
- 4E5-31** Synthesis of saturated alicyclic hydroxamic acids with pseudo-C₂ symmetry through intramolecular [2+2] cycloaddition of keteniminium salts as a key reaction. (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○TACHI, Kanako; HONDA, Kiyoshi; HOSHINO, Yujiro
- 4E5-32*** Small and forgotten diazoalkanes (RWTH Aachen University, Institute of Organic Chemistry) ○KOENIGS, Rene M.
- 4E5-34** Stereoselectivities and mechanisms of ring-opening cyclization of donor-acceptor cyclopropylcarbinols (Fac. Textile Sci. Technol., Shinshu Univ.) ○SASAZAWA, Kazuya; OTA, Ryotaro; TAKAKI, Naoya; TAKADA, Seiji; NISHII, Yoshinori
- 4E5-35** Asymmetric synthesis of highly multi-substituted dihydronaphthalenes using Lewis Acid-mediated homo-Nazarov-type cyclization of optically active

donor-acceptor cyclopropanes (Fac. Textile Sci. Technol., Shinshu Univ.)
 ○TAKADA, Seijiro; TAKAKI, Naoya; YAMADA, Kenta; MOCHIZUKI, Takehito; NISHII, Yoshinori

Chair: UCHIDA, Tatsuya (15 : 00~16 : 00)

- * 14:50-15:00: interval for laptop PC connection.(4E5-37, 4E5-38, 4E5-39, 4E5-41, 4E5-42)
- 4E5-37** Stereoselective synthesis of bicyclo[3.1.1]heptane via [2+2]photocycloaddition (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.)
 ○KUBO, Akiko; ITO, Arisa; HOSHINO, Yujiro; HONDA, Kiyoshi
- 4E5-38[#]** Development of highly active Ru catalysts toward practical hydrogenation of carboxylic acids (Grad. Sch. Sci., Nagoya Univ.)
 ○YOSHIOKA, Shota; NARUTO, Masayuki; NOYORI, Ryoji; SAITO, Susumu
- 4E5-39[#]** Catalytic transformation of functionalized carboxylic acids using multifunctional rhenium complexes (Grad. Sch. Sci., Nagoya Univ.)
 ○NARUTO, Masayuki; AGRAWAL, Santosh; TODA, Katsuaki; NOYORI, Ryoji; SAITO, Susumu
- 4E5-41** Asymmetric Base-Hydrolysis of *N*-Protected Amino Acid Ester via Dynamic Kinetic Resolution Using Chiral Phase Transfer Catalysts (Fac. Sci., Kyushu Univ.) ○WAKAFUJI, Kodai; FURUTACHI, Yuho; YAMAMOTO, Eiji; TOKUNAGA, Makoto
- 4E5-42** Designing catalysts based on computational chemistry: Chiral bronsted acid as an example (Grad. Sch. Sci., Tohoku Univ.) ○ITO, Shigetomo; OTA, Yusuke; KONDOH, Azusa; TERADA, Masahiro

Chair: KONDOH, Azusa (16 : 10~17 : 00)

- * 16:00-16:10: interval for laptop PC connection.(4E5-44, 4E5-45, 4E5-46, 4E5-47)
- 4E5-44** Optimization of the Kinetic Resolution of Racemic 2-Hydroxyacetals by the Asymmetric Esterification Using MA-BTM Combined System (Fac. Sci., TUS) NAKATA, Kenya; ○SAITO, Takahiro; NAKAHARA, Takayoshi; MURATA, Takatsugur; SHIINA, Isamu
- 4E5-45** Theoretical Studies on Dynamic Asymmetric Esterification of Racemic 2-Indolylpropanoic Acids Using MA-BTM Combined System (Fac. Sci., TUS) SHIINA, Isamu; SAITO, Takahiro; ○YOKOYAMA, Yuka; TOKUMARU, Eri
- 4E5-46** Asymmetric Synthesis of Tetrazole Compounds by Kinetic Resolution of MBH-fluorides (Grad. Sch. Eng., Nagoya Inst. of Tech.)
 ○MATSUBARA, Okiya; TOKUNAGA, Etsuko; SHIBATA, Norio
- 4E5-47[#]** Theoretical Studies on Conformations of Symmetric Diesters (Grad. Sch. of Eng., Muroan Inst. of Tech.) ○NIWAYAMA, Satomi; MATSUSHIMA, Shota; KATO, Mai

Room E6

Fourth Building Independence Wing
 D308

Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Thursday, March 16, AM

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

- * 8:50-9:00: interval for laptop PC connection.(1E6-01, 1E6-02, 1E6-03, 1E6-04, 1E6-05)
- 1E6-01** Synthetic Study of Torribiellutin Derivative Based on Reductive S_N2' Reaction of Epoxy Dienoester (Sch. Adv. Eng., Kogakuin Univ.)
 ○MUROKAWA, Shunsuke; YASUI, Eiko; NAGUMO, Shinji
- 1E6-02** Size selective synthesis of pillar[n]arenes (n = 6, 7, 8) using cyclodextrins as a cyclic template (Grad. Sch. Eng., Osaka Univ.)
 ○KURATA, Shuya; IWASAKI, Takanori; KUNIYASU, Hitoshi; KAMBE, Nobuaki
- 1E6-03** Synthetic Study of 12(*S*)-hydroxy-hepta-decatrienoic Acid and its Analogues (Sch. Life Sci. Tech., Tokyo Tech.) ○MORITA, Masao; KOBAYASHI, Yuichi; OGAWA, Narihito; TOJO, Toshifumi; KONDO, Daiki
- 1E6-04** Construction of Acyclic All-Carbon Quaternary Stereocenters by γ -Selective Formylation of Allylzinc Bromides (Grad. Sch. Sci. Eng., Chuo Univ.) HARAGUCHI, Ryosuke; ○KUSAKABE, Akinori; FUKUZAWA, Shin-ichi
- 1E6-05[#]** Development of a Novel Synthetic Method for α -Amino Acid Derivatives using Functionalized *N*-Acylimines (Sch. Env. Sci. Eng., KUT)
 ○ASAHARA, Haruyasu; TANI, Shinki; UMEZU, Kazuto; NISHIWAKI, Nagatoshi

Chair: HARAGUCHI, Ryosuke (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1E6-08, 1E6-09, 1E6-10, 1E6-11, 1E6-12)
- 1E6-08** Efficient One-pot Synthesis of Multi-functionalized DACNs and Their Reactions (IMCE, Kyushu Univ.; Fac. Eng., Kyushu Univ.) KAWASAKI,

Yuuya; AOYAMA, Shin; ○SETO, Yuuki; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

- 1E6-09** Development of Catalytic Addition Reactions of Alkylazaarenes with Alkenylsilanes Using Strong Bases as Catalysts (Grad. Sch. Sci., The Univ. of Tokyo) ○MINAMI, Kodai; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 1E6-10** Development of Catalytic Addition Reactions of Weakly Acidic Carbonyl Compounds with Substituted Alkenes (Grad. Sch. Sci., The Univ. of Tokyo) ○IGARASHI, Ryo; SUZUKI, Hirotsugu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 1E6-11[#]** Strong Base-catalyzed Mannich-type Reactions of Simple Amides and Related Compounds (Grad. Sch. Sci., The Univ. of Tokyo)
 ○RAMAMURTHY, Nagarajaprakash; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 1E6-12^{*}** Hydrohalogenation of Alkynes Including the Nucleophilic Addition of Halide Ion (Sch. Env. Sci. Eng., KUT) ASAHARA, Haruyasu; MURAGISHI, Kengo; ○NISHIWAKI, Nagatoshi

Chair: YAMASHITA, Yasuhiro (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1E6-15, 1E6-17, 1E6-18, 1E6-19, 1E6-20)
- 1E6-15[#]** Enantioselective Total Synthesis of Beraprost (Grad. Sch. Sci., Tohoku Univ.) UMEMIYA, Shigenobu; ○SAKAMOTO, Daisuke; HAYASHI, Yujiro
- 1E6-17[#]** Synthetic Study of Latanoprost (Grad. Sch. Sci., Tohoku Univ.)
 ○KAWAUCHI, Genki; UMEMIYA, Shigenobu; HAYASHI, Yujiro
- 1E6-18** Synthesis of novel colletechlorin derivatives having antitrypanosomal activity (Fac. Eng., Tottori Univ.) ○NISHIDA, Shohei; IKEDA, Kouhei; AOYAMA, Takahiro; IZAWA, Hironori; IFUKU, Shinsuke; MORIMOTO, Minoru; KITA, Kiyoshi; YAMAMOTO, Masaichi; SAIMOTO, Hiroyuki
- 1E6-19** Synthesis of novel ascofuranone derivatives having antitrypanosomal activity (Grad. Sch. Eng., Tottori Univ.) ○IKEDA, Kouhei; AOYAMA, Takahiro; YAMAMOTO, Masaichi; KITA, Kiyoshi; IZAWA, Hironori; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki
- 1E6-20** Microwave Specific Effect on Ring-Closing Metathesis: Investigation on Cyclic Bisazole Skeleton Formation (Fac. Sci. Tech., Keio Univ.)
 ○SAWADA, Taichi; TASHIMA, Shigeki; YAMAGUCHI, Atsuki; SAITO, Kodai; YAMADA, Tohru

Thursday, March 16, PM

Chair: MATSUMOTO, Arimasa (13 : 30~14 : 20)

- * 13:20-13:30: interval for laptop PC connection.(1E6-28, 1E6-29, 1E6-30, 1E6-31, 1E6-32)
- 1E6-28** Cu-catalyzed 1,5-addition of Grignard reagents to enantioenriched donor-acceptor cyclopropanes with inversion (Fac. Textile Sci. Technol., Shinshu Univ.) ○SAITO, Taichi; TAKADA, Seijiro; NISHII, Yoshinori
- 1E6-29** Hydrogenolysis of enantioenriched donor-acceptor bicyclic cyclopropanes using hydrogen with Pd-C catalysis (Fac. Textile Sci. Technol., Shinshu Univ.) ○SONE, Yoshitomo; KIMURA, Yumi; NISHII, Yoshinori
- 1E6-30[#]** Synthesis of Multi-substituted 1,4-Benzoxazine Using Umpolung Reaction with 2-Oxo-1,4-benzoxazine-3-carboxylates (Grad. Sch. Eng., Mie Univ.) ○TANAKA, Takanori; MIZOTA, Isao; SHIMIZU, Makoto
- 1E6-31** Umpolung Reaction of *N*-Phosphinoyl- α -imino Ester (Grad. Sch. Eng., Mie Univ.) ○UCHIMIZU, Shota; MIZOTA, Isao; SHIMIZU, Makoto
- 1E6-32** Tandem *N*-Alkylation/coupling Reaction of α -Aldimino Esters. (Grad. Sch. Eng., Mie Univ.) ○HIGASHINO, Asako; MIZOTA, Isao; SHIMIZU, Makoto

Chair: NISHII, Yoshinori (14 : 30~15 : 10)

- * 14:20-14:30: interval for laptop PC connection.(1E6-34, 1E6-35, 1E6-36, 1E6-37)
- 1E6-34** Aggregation Structure Analysis of Asymmetric Autocatalyst of Pyrimidyl Alkanol by CD Spectrum (Fac. Sci., TUS) ○HARA, Natsuki; SHIMADA, Seiya; KAIMORI, Yoshiyasu; MATSUMOTO, Arimasa; SOAI, Kenso
- 1E6-35** Catalytic Enantioselective Alkylation of Aldehydes Using Grignard Reagents (KIT) ○TANAKA, Kento; YAMAMOTO, Koji; HARADA, Toshiro
- 1E6-36** Practical Method for Catalytic Enantioselective Arylation and Heteroarylation of Ketones with In-Situ Generated Organotitanium Reagents from Bromide Precursors (KIT) ○MATSUDA, Atsushi; KOBAYASHI, Yusuke; HARADA, Toshiro
- 1E6-37** Application of Chiral Titanium Catalyst Derived from Silica-Supported 3-Aryl H₃-BINOL in Enantioselective Alkylation and Arylation of Aldehydes (KIT) ○WATANABE, Satoshi; AKAI, Junichiro; MICHIKAWA, Kumiko; HARADA, Toshiro

Chair: MIZOTA, Isao (15 : 20~16 : 00)

- * 15:10-15:20: interval for laptop PC connection.(1E6-39, 1E6-41, 1E6-42)
- 1E6-39[#]** Chiral Macrocyclic Lithium Binaphtholate Catalysts for Enantioselective Alkyl Addition to Ketones (Grad. Sch. Eng., Nagoya Univ.)
 ○YAMASHITA, Kenji; OOI, Naoki; HATANANO, Manabu; ISHIIHARA, Kazuaki
- 1E6-41** Chiral π -Cu(II) Catalysts for Enantioselective α -Halogenation of

Acylpyrazoles (Sch. Eng., Nagoya Univ.) ○NISHIMURA, Kazuki; WANG, Yanzhao; OGURA, Yoshihiro; YAMAKAWA, Katsuya; ISHIHARA, Kazuaki

1E6-42[#] Chiral π -Cu(II) Complex-Catalyzed Enantioselective [1,3] Rearrangement of Allylnaphthyl Ethers (Grad. Sch. Eng., Nagoya Univ.) ○YAO, Lu; ISHIHARA, Kazuaki

Chair: KANO, Taichi (17 : 10~18 : 10)

* 17:00-17:10: interval for laptop PC connection.(1E6-50, 1E6-51, 1E6-52, 1E6-53, 1E6-54, 1E6-55)

1E6-50 Design and Synthesis of Dynamic Chiral α, β -Unsaturated Ketone (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) KAWASAKI, Yuuya; OMUTAGUCHI, Misaki; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

1E6-51 Synthesis of Dynamic Chiral 1,3-Ketoamide Enolate and Its Transformation (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) KAWASAKI, Yuuya; OKAMIKUBO, Ryota; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

1E6-52 Design, Synthesis, and Stereochemical Behavior of Dynamic Chiral 9-Membered Lactams (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ANO, Yusuke; OKAMOTO, Mariko; OYOSHIDA, Yuki; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

1E6-53 Synthesis of polymeric MacMillan catalysts using chiral imidazolidinones containing diiodophenyl group and their application to asymmetric reaction (Dept. Env. Life Sci., TUT) ○SAKIYAMA, Tomotada; HARAGUCHI, Naoki; FUJISAWA, Ikuhide; SAKIYAMA, Shinichi

1E6-54 Stereoselective Transformation of Chiral Silacyclopentenol (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) IGAWA, Kazunobu; YOSHIIHIRO, Daisuke; OKUROO, Akihiro; TOMOOKA, Katsuhiko

1E6-55 Synthesis of alcohols using squarate dianion as an oxygen nucleophile (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○SATO, Kazuto; TANINO, Keiji

Chair: HARAGUCHI, Naoki (18 : 20~18 : 50)

* 18:10-18:20: interval for laptop PC connection.(1E6-57, 1E6-58, 1E6-59)

1E6-57[#] Stereoselective Synthesis of Z-Ketimine and Their Application to Asymmetric Reactions (Fac. Sci., Kyoto Univ.) ○HOMMA, Chihiro; KANO, Taichi; MARUOKA, Keiji

1E6-58 Asymmetric Synthesis of α -Tertiary Amines using Z-Ketimine (Dep. Chem., Sch. Sci., Kyoto Univ.) ○AOTA, Yusuke; KANO, Taichi; MARUOKA, Keiji

1E6-59 Carbon Dioxide Incorporation Reaction on Conjugated Ynone Compounds Based on Alkyne Activation by Silver Catalysts (Fac. Sci. Tech., Keio Univ.) ○SADAMITSU, Yuta; KOMATSUKI, Keiichi; SAITO, Kodai; YAMADA, Tohru

Friday, March 17, AM

Chair: ISHIDA, Kento (9 : 00~9 : 50)

* 8:50-9:00: interval for laptop PC connection.(2E6-01, 2E6-02, 2E6-03, 2E6-04)

2E6-01[#] Umpolung Reaction of *N*-Silyl- α -Imino Ester (Grad. Sch. Eng., Mie Univ.) ○TADANO, Yurie; MIZOTA, Isao; SHIMIZU, Makoto

2E6-02 Diastereoselective Synthesis of α -Aminoamide : *N*-Alkylation and Intramolecular Amidation of α -Hydrazonoester (Grad. Sch. Eng., Mie Univ.) ○MIZUKOSHI, Nanami; MIZOTA, Isao; SHIMIZU, Makoto

2E6-03 Asymmetric Autocatalysis Initiated by 1- and 2-Aza[6]helicenes (Fac. Sci., TUS; CAS) ○YONEMITSU, Kento; OZAKI, Hanae; MATSUMOTO, Arimasa; STARÁ, Irena; STARÝ, Ivo; SOAI, Kenso

2E6-04^{#*} Achiral Crystal Surface Acts as an Origin of Chirality in Conjunction with Asymmetric Autocatalysis (Grad. Sch. Chem. Sci. Technol., TUS) ○KAIMORI, Yoshiyasu; MATSUMOTO, Arimasa; SOAI, Kenso

Chair: FUKUYAMA, Takahide (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(2E6-07, 2E6-08, 2E6-09, 2E6-11, 2E6-12)

2E6-07 Photoinduced catalytic alkylation of C(sp³)-H bonds for direct introduction of alkyl chain to carbon skeletons (Grad. Sch. Sci. Eng., Yamaguchi Univ.) ○TAKAO, Go; KAMIJO, Kaori; TSUNO, Teruo; ISHIGURO, Katsuya; MURAFUJI, Toshihiro; KAMIJO, Shin

2E6-08 Intermolecular Coupling Reaction of Imidoysilanes and Boronic Acid Esters (Fac. Sci., Gakushuin Univ.) ○SASAKI, Junki; OHYAMA, Tomoya; ISHIDA, Kento; KUSAMA, Hiroyuki

2E6-09^{#*} Highly Efficient Sequential *N,N,C*-Trialkylation of α -*N*-Acyloxyimino ester (Grad. Sch. Eng., Mie Univ.) ○MIZOTA, Isao; KAWANISHI, Mami; SHIMIZU, Makoto

2E6-11 Tandem Addition Reaction of α -Imino Thioester Using Umpolung Reaction (Grad. Sch. Eng., Mie Univ.) ○TSUJIMOTO, Yusuke; MIZOTA, Isao; SHIMIZU, Makoto

2E6-12[#] Two-step Syntheses of Fluorescent Enynes Using 1-Phosphorylpropyne as Starting Compound (Fac. of Eng., Okayama Univ. of Sci.; Hunan Univ. Sci. Tech.) ○ORITA, Akihiro; SHINOHARA, Kenta; NISHIDA, Takanori; PENG, Lifan

Chair: KAMIJO, Shin (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(2E6-14, 2E6-15, 2E6-16, 2E6-17, 2E6-18, 2E6-19)

2E6-14 TBADT-Photocatalyzed Site-Selective C-H Alkylation of Pyridilalkanes with Electron-Deficient Alkenes (Grad. Sch. Sci., Osaka Pref. Univ.) ○NISHIKAWA, Tomohiro; KEIICHI, Yamada; TAKAHIDE, Fukuyama; ILHYONG, Ryu

2E6-15 Temperature Dependent Inversion of Enantioselectivity in the Asymmetric Autocatalysis Triggered by Chiral Alkanols and Amines (Fac. Sci., TUS) ○FUJIWARA, Satoshi; MATSUMOTO, Arimasa; HIYOSHI, Yui; ZAWATSKY, Kerstin; MAKAROV, Alexey; WELCH, Christopher; SOAI, Kenso

2E6-16 Asymmetric Autocatalysis Initiated by Chiral Spiro Compounds (Fac. Sci., TUS) ○TAKEDA, Sora; SHIMADA, Seiya; MATSUMOTO, Arimasa; SOAI, Kenso

2E6-17 Asymmetric Autocatalysis Initiated with Chiral Gold Cluster. (Fac. Sci., TUS) ○SHIMADA, Seiya; HARA, Natsuki; IDE, Takahiro; KAIMORI, Yoshiyasu; MATSUMOTO, Arimasa; KURASHIGE, Wataru; NEGISHI, Yuichi; KAWASAKI, Tsuneomi; SOAI, Kenso

2E6-18 Synthesis of Unsaturated Amino Lactones by Tandem *N*-Alkylation/vinylogous Aldol Reaction of β, γ -Alkenyl- α -iminoester (Grad. Sch. Eng., Mie Univ.) ○NAKAHAMA, Kenta; MIZOTA, Isao; SHIMIZU, Makoto

2E6-19 Umpolung Reaction of the α -Imino Thioester Having a Cyclopropyl Group Followed by Tandem Ring-Opening Reaction (Grad. Sch. Eng., Mie Univ.) ○YANAGI, Yusuke; MIZOTA, Isao; SHIMIZU, Makoto

Friday, March 17, PM

Chair: TANIMOTO, Hiroki (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(2E6-34, 2E6-35, 2E6-36, 2E6-37, 2E6-38)

2E6-34 Iridium catalyzed high regio-, enantio-, and diastereoselective carbene C-H insertion (I2CNER, Kyushu University) ○YAMAKAWA, Yuki; IKUTA, Takashi; UCHIDA, Tatsuya; KATSUKI, Tsutomu

2E6-35 One-pot Synthesis of Methacrylic Esters from Acetone, Chloroform and Alcohols (Grad. Sch. Eng., The Univ. of Tokyo) ○KOYAMA, Minoru; KAWAKAMI, Takafumi; OKAZOE, Takashi; NOZAKI, Kyoko

2E6-36 Study of Wittig Reaction using Phosphonium Salts with a Carboxylic Acid Group. (Sch. Life Sci. Tech., Tokyo Tech.) ○SUGANUMA, Yuta; KOBAYASHI, Yuichi

2E6-37 Total Synthesis of Isoleukotoxin Diol using TMS-Epoxy Opening with DMSO Anion (Sch. Life Sci. Tech., Tokyo Tech.) ○NANBA, Yutaro; MORITA, Masao; KOBAYASHI, Yuichi

2E6-38^{#*} Ligand-Free Copper Catalyzed Direct Carboxylation of Arylsilanes with Carbon Dioxide (Grad. Sch. Sci., The Univ. of Tokyo) ○NGUYEN, Thanh Vu Quang; YOO, Woo-jin; KOBAYASHI, Shu

Chair: KAWAMOTO, Takuji (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(2E6-41, 2E6-42, 2E6-44, 2E6-45)

2E6-41 One-pot Conversion of Azido Groups at α -position of Carbonyls (Grad. Sch. Mat. Sci., NAIST) ○UEDA, Tomomi; YOKOI, Taiki; TANIMOTO, Hiroki; KAKIUCHI, Kiyomi

2E6-42^{#*} Construction of Tetrasubstituted Carbon Stereocenters via Direct Catalytic Nucleophilic Addition to Ketimines (Grad. Sch. Pharm., Kyushu Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○MORIMOTO, Hiroyuki; MORISAKI, Kazuhiro; SAWA, Masanao; YONESAKI, Ryohei; KONDO, Yuta; MASHIMA, Kazushi; OHSHIMA, Takashi

2E6-44 Synthesis of 1,128-alkanediol and its temperature-dependence of solubility (Grad. Sch. Pharm. Sci., Tohoku Univ.) ○SHINOZAKI, Yasuhiro; SAITO, Nozomi; SHIGENO, Masanori; YAMAGUCHI, Masahiko

2E6-45^{#*} Catalytic Addition Reactions of Weakly Acidic Compounds Based on Design of Product Bases (Grad. Sch. Sci., The Univ. of Tokyo) ○YAMASHITA, Yasuhiro; KOBAYASHI, Shu

Chair: YAMASHITA, Yasuhiro (16 : 50~17 : 30)

* 16:40-16:50: interval for laptop PC connection.(2E6-48, 2E6-49, 2E6-50, 2E6-51)

2E6-48 Dimerization of Propargyl Alcohol Using Phosphine (Grad. Sch. Eng., KUT) ○IWAI, Kento; ASAHARA, Haruyasu; NISHIWAKI, Nagatoshi

2E6-49 Development of rapid generation method for cycloalkynes using magnesium bisamide (Grad. Sch. Eng., Kobe Univ.) ○HIOKI, Yuto; OKANO, Kentaro; MORI, Atsunori

2E6-50 Synthesis and reaction of chiral, non-racemic *ortho*-quinone monoacetals from C₂-symmetric diols (Sch. Sci., Tokyo Tech.) ○SAKATA, Keiichiro; TAKIKAWA, Hiroshi; SUZUKI, Keisuke

2E6-51 Silver-Catalyzed Tandem Incorporations of Carbon Dioxide and Bromo Group into Propargylic Amines (Fac. Sci. Tech., Keio Univ.) ○OHSEKI, Masatoshi; SUGIYAMA, Nao; KOBAYASHI, Ryo; SAITO, Kodai; YAMADA, Tohru

Saturday, March 18, AM

Chair: ASANO, Keisuke (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3E6-01, 3E6-02, 3E6-03, 3E6-05, 3E6-06)
- 3E6-01** Aldol-type Reaction of Alkyl Nitriles under Mild Silylation Conditions (Sch. Sci., Hokkaido Univ.) ○SAITO, Hiroki; ABE, Taiki; YOSHIMURA, Fumihiko; TANINO, Keiji
- 3E6-02[#]** 4-hydroxydiphenylprolinol as an active catalyst in asymmetric aldol reaction (Sch. Sci., Tohoku Univ.) ○UMEKUBO, Nariyoshi; TAKAHASHI, Kazuki; IWASAKI, Kotaro; CHIBA, Hiroaki; HAYASHI, Yujiro
- 3E6-03[#]** Asymmetric Mannich reaction using bifunctional electron-deficient iodobenzene/tert-amine combined catalyst (Grad. Sch. Sci., Chiba Univ.) ○KUWANO, Satoru; SUZUKI, Takumi; ARAI, Takayoshi
- 3E6-05** Magnessium Lewis Acid Assisted Oxidative Bromoetherification Involving Bromine Transfer (Grad. Sch. Sci., Chiba Univ.) ○MORIYAMA, Katsuhiko; NISHINOHARA, Chihiro; TOGO, Hideo
- 3E6-06** Oxi-functionalization of Cyclic Ethers via Oxidation of Bromide Ion (Grad. Sch. Sci., Chiba Univ.) ○HAMADA, Tsukasa; TOGO, Hideo; MORIYAMA, Katsuhiko

Chair: YOSHIMURA, Fumihiko (10 : 10 ~ 11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(3E6-08, 3E6-09, 3E6-10, 3E6-11, 3E6-12)
- 3E6-08** Synthesis of 2-Cyclopentenones via Carbon Dioxide Incorporation by Silver Catalyst (Fac. Sci. Tech., Keio Univ.) ○KOMATSUKI, Keiichi; SADAMITSU, Yuta; SAITO, Kodai; SEKINE, Kohei; YAMADA, Tohru
- 3E6-09[#]** Withdrawn
- 3E6-10** Effects of trans-Cyclooctenes as Additive for Bromocyclization of Indole Derivatives (Grad. Sch. Eng., Kyoto Univ.) ○SHITAMICHI, Kenta; ASANO, Keisuke; MATSUBARA, Seiji
- 3E6-11** Asymmetric Net Cycloaddition Synthesis of 2,3-trans-Disubstituted 1,5-Benzothiazepines (Grad. Sch. Eng., Kyoto Univ.) ○YAO, Koichi; FUKATA, Yukihiko; MIYAJI, Ryota; ASANO, Keisuke; MATSUBARA, Seiji
- 3E6-12[#]** Asymmetric Synthesis of 1,3-*syn*-Diols via Construction of Six-Membered Acetals Using Chiral Phosphoric Acid Catalysts (Grad. Sch. Eng., Kyoto Univ.) ○MATSUMOTO, Akira; ASANO, Keisuke; MATSUBARA, Seiji

Saturday, March 18, PM

Chair: ISHIHARA, Kazuaki (13 : 00 ~ 14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(3E6-25, 3E6-28, 3E6-29, 3E6-30)
- 3E6-25** Young Scholar Lectures of CSJ Novel Carbon-Carbon Bond Forming Reactions Realized by Using Strong Brønsted Base Catalyst (RACGM, Tohoku Univ.) ○KONDOH, Azusa
- 3E6-28** Attempt of enantioselective [2+2] photocycloaddition reactions mediated by chiral phosphoric acid (Fac. Sci., Hiroshima Univ.) ○TABUCHI, Chihiro; TAKAGI, Ryukichi; ABE, Manabu
- 3E6-29** Enantioselective Allyl-, and Allenylboration of Aldehydes Catalyzed by Hydroxyl Carboxyl Acid (Univ. of Shizuoka) ○OTA, Yuya; KAWATO, Yuji; EGAMI, Hiromichi; HAMASHIMA, Yoshitaka
- 3E6-30** Development of Carbon-Carbon Bond Forming Reaction Utilizing Benzyl Anion Generated by [1,2]-Phospha-Brook Rearrangement (Grad. Sch. Sci., Tohoku Univ.) ○OZAWA, Ryosuke; AOKI, Takuma; KONDOH, Azusa; TERADA, Masahiro

Chair: EGAMI, Hiromichi (14 : 10 ~ 15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(3E6-32, 3E6-33, 3E6-34, 3E6-35, 3E6-36, 3E6-37)
- 3E6-32** Chiral Brønsted Acid-Catalyzed Asymmetric Carbonyl-Ene Reaction of 1,1-Disubstituted Olefins with Glyoxylate (Grad. Sch. Sci., Tohoku Univ.) ○ARAMAKI, Hiromu; KIKUCHI, Jun; TERADA, Masahiro
- 3E6-33** Construction of Chiral Quaternary Carbon Center by Chiral Brønsted Acid Catalyzed Enantioselective Addition to Oxallyl Cation (Grad. Sch. Sci., Tohoku Univ.) ○FUNAYAMA, Kosuke; TERADA, Masahiro
- 3E6-34** Asymmetric Dehydration Reaction Catalyzed by Chiral Brønsted Acid (Grad. Sch. Sci., Tohoku Univ.) ○FUYUKI, Yuki; SHIMIZU, Masahiro; YAMANAKA, Takuto; KONDOH, Azusa; TERADA, Masahiro
- 3E6-35** Chiral Phosphoric Acid Catalyzed Asymmetric Reduction of Tertiary Alcohol with Benzothiazoline (Fac. Sci., Gakushuin Univ.) ○SAITO, Shota; MIYAGAWA, Masamichi; AKIYAMA, Takahiko
- 3E6-36** Construction of all-carbon quaternary stereocenters by chiral metal phosphate catalyzed asymmetric Friedel-Crafts alkylation reaction of indoles with β , β -disubstituted nitroalkenes (Fac. Sci., Gakushuin Univ.) ○KANEKO, Mio; IBÁÑEZ SÁNCHEZ, Ignacio; AKIYAMA, Takahiko
- 3E6-37** C-H Bond Functionalization of Tetrahydroisoquinoline Derivatives with Brønsted Acid (Fac. Sci., Gakushuin Univ.) ○IIZUKA, Sunao; MIYAGAWA, Masamichi; AKIYAMA, Takahiko

Chair: MORI, Keiji (15 : 20 ~ 16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(3E6-39, 3E6-40, 3E6-41, 3E6-42, 3E6-44)
- 3E6-39** Enantioselective Intramolecular Nicholas reaction catalyzed by Chiral Phosphoric Acid (Grad. Sch. Sci., Tohoku Univ.) ○OTA, Yusuke; KONDOH, Azusa; TERADA, Masahiro
- 3E6-40** Development and Mechanistic Study of the Chiral Brønsted Acid Catalyzed Intramolecular S_N2' Reaction for Construction of Quaternary Stereogenic Center (Grad. Sch. Sci., Tohoku Univ.) ○SHIMIZU, Masahiro; KONDOH, Azusa; TERADA, Masahiro
- 3E6-41** Synthesis of polysubstituted naphthol derivatives by means of cycloaddition reaction of dialkoxybenzofuran intermediates generated by photoisomerization of *o*-acylbenzoylsilane. (Fac. Sci., Gakushuin Univ.) ○ADEGAWA, Minoru; SATO, Junpei; SHIMIZU, Tsukasa; ISHIDA, Kento; KUSAMA, Hiroyuki
- 3E6-42[#]** Development of Formal Asymmetric Ireland-Claisen Rearrangements by Hybrid Boron-Transition Metal Catalysis (Grad. Sch. Pharm., The Univ. of Tokyo) ○MORITA, Yuya; FUJITA, Taiki; YAMAMOTO, Tomohiro; SHIMIZU, Yohei; KANAI, Motomu
- 3E6-44** Construction of eight-membered carbocycles via 1,2-divinylcyclobutane rearrangement (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Grad. Sch. Sci., Hokkaido Univ.) ○ISHIKURA, Kentaro; TANINO, Keiji

Chair: KONDOH, Azusa (16 : 30 ~ 17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(3E6-46, 3E6-47, 3E6-48, 3E6-49, 3E6-50, 3E6-51)
- 3E6-46** Diastereoselective synthesis of 1,3-substituted tetralin derivatives by internal redox reaction. (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○YOSHIDA, Taira; MORI, Keiji
- 3E6-47** Construction of CF₃-substituted spiroisochroman skeleton by internal redox reaction/Friedel-Crafts reaction sequence (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○TAMURA, Risa; KITAMURA, Eriko; AKIYAMA, Takahiko; MORI, Keiji
- 3E6-48** Development of a novel skeletal rearrangement reaction mediated by alkylthio group transfer/cyclization sequence. (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HISANO, Naoya; MORI, Keiji
- 3E6-49** A novel base-triggered tandem elimination/[3,3] rearrangement reaction through activation of β -hydroxy group (Yokohama Natl. Univ. College of engineering science) HONDA, Kiyoshi; ○MOON, Seunghwan; NAKAGO, Takahiro; HOSHINO, Yujiro
- 3E6-50** Chemoselectivity of [2,3] and/or [3,3]rearrangement of quaternary bisallylammonium ylides (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○NAKAGO, Takahiro; HOSHINO, Yujiro; HONDA, Kiyoshi
- 3E6-51** A novel deamination reaction using glycine type quaternary ammonium ylides (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○MUTO, Marina; NAKAGO, Takahiro; HOSHINO, Yujiro; HONDA, Kiyoshi

Chair: YOHEI, Shimizu (17 : 40 ~ 18 : 40)

- * 17:30-17:40: interval for laptop PC connection.(3E6-53, 3E6-55, 3E6-56, 3E6-57, 3E6-58)
- 3E6-53[#]** Chemoselective Catalytic Conjugate Addition of Hydroxy Group over Amino Group (Grad. Sch. Pharm., Kyushu Univ.) ○LI, Zhao; UESUGI, Shuhei; TAMURA, Masamichi; YAZAKI, Ryo; OHSHIMA, Takashi
- 3E6-55[#]** Asymmetric construction of a steroidal structure using diphenylprolinol silyl ether mediated asymmetric Michael reaction (Grad. Sch. Sci., Tohoku Univ.) ○KOSHINO, Seitaro; HAYASHI, Yujiro
- 3E6-56[#]** The asymmetric construction of 1,3-dimethyl unit via successive Michael reaction of nitroalkane catalyzed by diphenylprolinol silyl ether (Grad. Sch. Sci., Tohoku Univ.) ○TODA, Shunsuke; HAYASHI, Yujiro
- 3E6-57[#]** Pyridine-Metal-Catalyzed Michael Reaction using Nitroalkenes (Fac. Sci., Chiba Univ.) ○MA, Junma; SHIRASUGI, Mayu; ARAI, Takayoshi
- 3E6-58[#]** Catalytic Diastereoselective Direct Michael Addition of α -Alkoxyketones to Enones by Samarium/Tin Cooperative Catalysis (Grad. Sch. Eng., Osaka Univ.) ○ESUMI, Naoto; NISHIMOTO, Yoshihiro; YASUDA, Makoto

Sunday, March 19, AM

Chair: HORIBE, Takahiro (9 : 00 ~ 9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(4E6-01, 4E6-02, 4E6-03, 4E6-04, 4E6-05)
- 4E6-01** Preparation of unsymmetric heterobiaryls with winding-vine-shaped molecular asymmetry through condensation pathway (Grad. Sch. Eng., Kobe Univ.) ○INOUE, Ryo; MATSUOKA, Daichi; MARUHASHI, Kazuki; ASHIDA, Shiomi; OKANO, Kentaro; MORI, Atsunori
- 4E6-02** Preparation of Novel Macrocyclic Heterobiaryls with Winding-vine-shaped Molecular Asymmetry through a Non-RCM Pathway (Grad. Sch. Eng., Kobe Univ.; Grad. Sch. Eng., Kobe Univ.) ○ASHIDA, Shiomi; TANAKA, Naoki; OKANO, Kentaro; MORI, Atsunori
- 4E6-03** Practical and robust chiral syntheses of (*R*)-2-sulfanylcaboxylic acids and their methyl esters and its accessible optical purity determination using HPLC (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○SASAKI, Ryosuke; NAKATSUJI, Hidefumi; TANABE, Yoo

- 4E6-04** Multi-substituted(2*5H*)-furanones: synthesis utilizing direct Ti-crossed aldol reaction and its application to Suzuki-Miyaura cross-coupling partners. (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○BAN, Yuki; ASHIDA, Yuichiro; NAKATSUJI, Hidefumi; TANABE, Yoo
- 4E6-05** Development of several C-C bond-forming reactions using diethyl oxomalonate (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○TAKEMOTO, Taichi; ASHIDA, Yuichiro; NAKATSUJI, Hidefumi; TANABE, Yoo

Chair: NAKATSUJI, Hidefumi (10 : 00~10 : 30)

- * 9:50-10:00: interval for laptop PC connection.(4E6-07, 4E6-08, 4E6-09)
- 4E6-07** Development of efficient oxazoline synthesis via catalytic dehydration of *N*-(2-hydroxyethyl)amides (Grad. Sch. Sci., Nagoya Univ.) ○OGAWA, Saeko; SIONG WAN, Foo; NOYORI, Ryoji; SAITO, Susumu
- 4E6-08[#]** Novel Boronic Acid-catalyzed Dehydrate Condensation Reaction to Amides: The Access to Dipeptides (Grad. Sch. Eng., Nagoya Univ.) ○WANG, Ke; LU, Yanhui; ISHIHARA, Kazuaki
- 4E6-09** Chiral Secondary Amine-Boronic Acid Cooperative Catalysis for Enantioselective 1,4-Addition of α, β -Unsaturated Carboxylic Acids with Ketones (Grad. Sch. Eng., Nagoya Univ.) ○NAKATA, Yuto; LU, Yanhui; HORIBE, Takahiro; ISHIHARA, Kazuaki

Sunday, March 19, PM

Chair: YASUKAWA, Tomohiro (12 : 40~13 : 40)

- * 12:30-12:40: interval for laptop PC connection.(4E6-23, 4E6-25, 4E6-26, 4E6-27, 4E6-28)
- 4E6-23[#]** Enantioselective Aza-Friedel-Crafts Reaction with Imines Catalyzed by Chiral Bis(phosphoric acid)s and Chiral Pyrophosphoric Acids (Grad. Sch. Eng., Nagoya Univ.) ○OKAMOTO, Haruka; HATANO, Manabu; ISHIHARA, Kazuaki
- 4E6-25** Enantioselective Aza-Friedel-Crafts Reaction of 2-Methoxyfuran with α -Ketimino Esters Catalyzed by Chiral Bis(phosphoric acid)s (Grad. Sch. Eng., Nagoya Univ.) ○KAWAKAMI, Taro; OKAMOTO, Haruka; HATANO, Manabu; ISHIHARA, Kazuaki
- 4E6-26** Chiral Lithium(I) Phosphoryl Phenoxide Catalysts for Enantioselective Conjugate Cyanation of α, β -Unsaturated *N*-Acylpyrroles (Grad. Sch. Eng., Nagoya Univ.) ○YAMAKAWA, Katsuya; HATANO, Manabu; ISHIHARA, Kazuaki
- 4E6-27** Development of Metal-Bisamidine Catalyzed Asymmetric Vinyllogous Mukaiyama Aldol Reaction of α -Ketoester (Grad. Sch. Sci., Rikkyo Univ.) ○KURASAWA, Kasumi; YAMANAKA, Masahiro
- 4E6-28** Enantioinversion in zinc bisamidinate catalyzed asymmetric hydrophosphonylation of α -ketoesters (Grad. Sch. Sci., Rikkyo Univ.) ○OKA, Naoki; ICHINOSE, Atsushi; KAIZU, Keisuke; YAMANAKA, Masahiro

Chair: MIYAGAWA, Masamichi (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(4E6-30, 4E6-31, 4E6-32, 4E6-33, 4E6-35)
- 4E6-30** Chiral Phosphine Oxide-Iron(III) Catalysts for Enantioselective Conia-ene Reaction (Grad. Sch. Eng., Nagoya Univ.) ○SAKAKIBARA, Masato; HORIBE, Takahiro; ISHIHARA, Kazuaki
- 4E6-31** Chiral Phosphine Oxide-Iron(II) Catalysts for Enantioselective Oxidative Coupling of 2-Naphthols (Grad. Sch. Eng., Nagoya Univ.) ○NAKAGAWA, Keita; HORIBE, Takahiro; ISHIHARA, Kazuaki
- 4E6-32[#]** Lewis Acid-Assisted Dirhodium(II) Catalyzed Ketone Hydroacylation (Grad. Sch. Sci., The Univ. of Tokyo) ○YASUKAWA, Tomohiro; KOBAYASHI, Shu
- 4E6-33[#]** Multiselective Diels-Alder Reaction Induced by Chiral Supramolecular Lewis Acid Catalysts (Grad. Sch. Eng., Nagoya Univ.) ○SAKAMOTO, Tatsuhiro; HATANO, Manabu; ISHIHARA, Kazuaki
- 4E6-35** Transesterification Catalyzed by Highly Active Quaternary Ammonium Salts (Grad. Sch. Eng., Nagoya Univ.) ○TABATA, Yuji; HATANO, Manabu; ISHIHARA, Kazuaki

Chair: HATANO, Manabu (15 : 00~15 : 50)

- * 14:50-15:00: interval for laptop PC connection.(4E6-37, 4E6-38, 4E6-39, 4E6-40, 4E6-41)
- 4E6-37** Asymmetric reduction of trifluoromethylated alkynyl ketimine by means of chiral phosphoric acid (Fac. Sci., Gakushuin Univ.) ○TAKASHIMA, Kensuke; MIYAGAWA, Masamichi; AKIYAMA, Takahiko
- 4E6-38** Chiral Phosphoric Acid-Catalyzed Enantioselective Transfer Hydrogenation of *N*-unsaturated Trifluoromethylated Ketimines by Use of Benzothiazoline as a Hydrogen Donor (Fac. Sci., Gakushuin Univ.) ○KISHI, Hiroki; MIYAGAWA, Masamichi; AKIYAMA, Takahiko
- 4E6-39** Enantioselective Kinetic Resolution of Axially Chiral BINAM Derivatives by means of Chiral Phosphoric Acid (Fac. Sci., Gakushuin Univ.) ○EBIHARA, Takuya; MIYAGAWA, Masamichi; MIYAGAWA, Masamichi
- 4E6-40** Tris(pentafluorophenyl)boran-Promoted Isomerization of α -Pinene Oxide to Campholenic Aldehyde (TITC) ○YAMAZAKI, Shigekazu
- 4E6-41** Borylation of alkenes with boron-based Lewis acid in the presence of pyridines (Grad. Sch. Eng., Tohoku Univ.) ○SAITO, Yuki; TANAKA, Shinya; HATTORI, Tetsutaro

Chair: TANAKA, Shinya (16 : 00~17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(4E6-43, 4E6-45, 4E6-47)
- 4E6-43[#]** Photocatalytic *N*-Methylation of Amino Acids with Methanol (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) ○MORIOKA, Yuna; NOYORI, Ryoji; SAITO, Susumu; NAKA, Hiroshi
- 4E6-45[#]** *N*-Alkylation of Amines with Alcohols Using Mixed Photocatalytic System (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) ○WANG, Lyuming; MORIOKA, Yuna; NOYORI, Ryoji; SAITO, Susumu; NAKA, Hiroshi
- 4E6-47[#]** Photocatalytic transfer hydrogenolysis of allylic alcohols for production of platform and fine chemicals using palladium-loaded titanium oxide (Grad. Sch. Sci., Nagoya Univ.) ○TAKADA, Yuki; CANER, Joaquin; NAKA, Hiroshi; NOYORI, Ryoji; SAITO, Susumu

Room E7 Fourth Building Independence Wing D309

Functions of Materials

Thursday, March 16, AM

Chair: KOMATSU, Teruyuki (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1E7-01, 1E7-02, 1E7-03, 1E7-04, 1E7-05, 1E7-06)
- 1E7-01** Cell transfection of pGAL3ST3/polysaccharide complexes using reverse transfection method (Fac. Sci. Tech., Keio Univ.) ○TORIZUKA, Yu; AIKI, Yu; ARAI, Takahiro; SATO, Toshinori
- 1E7-02** Physicochemical Characterization of Hyaluronan Nanoparticles and Their Interaction with Skin Cells (Grad. Sch. Sci. Tech., Keio Univ.) ○TSUJI, Naoki; HISADA, Akari; KOIZUMI, Keisuke; SATO, Toshinori
- 1E7-03[#]** Bovine Serum Albumin Conjugated Nano-prodrugs and Their Anti-cancer Efficacy (IMRAM, Tohoku Univ.) ○TAEMAITREE, Farsai; KOSEKI, Yoshitaka; KASAI, Hitoshi
- 1E7-04** Fabrication of nano-prodrugs of hinokitiol-modified SN-38 and their drug efficacy (IMRAM, Tohoku Univ.) ○TANITA, Keita; KOSEKI, Yoshitaka; KAMISHIMA, Takaaki; KASAI, Hitoshi
- 1E7-05** Surface modification of nano-prodrugs and the study of their dispersion stability (IMRAM, Tohoku Univ.) ○ITO, Risa; KOSEKI, Yoshitaka; TAEMAITREE, Farsai; KASAI, Hitoshi
- 1E7-06** Surface modification of nano-prodrugs by fluorescent probe-conjugated polyethylene glycol and in vitro imaging (IMRAM, Tohoku Univ.) TAMADA, Masamichi; ○KOSEKI, Yoshitaka; IKUTA, Yoshikazu; ONODERA, Tsunenobu; OIKAWA, Hidetoshi; KASAI, Hitoshi

Chair: KASAI, Hitoshi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1E7-08, 1E7-09, 1E7-10, 1E7-11, 1E7-12, 1E7-13)
- 1E7-08** Synthesis and Oxygen-Binding Properties of Hemoglobin-Recombinant Canine Serum Albumin Clusters with Different Binding Number of Albumin (Fac. Sci. Eng., Chuo Univ.) ○IGARASHI, Keisuke; YOKOMAKU, Kyoko; KOMATSU, Teruyuki
- 1E7-09** Development of simultaneous removal process of nitrogen compounds by using spherical activated carbon (Grad. Sch. Environmental Studies, Tohoku Univ.) ○HORIKOSHI, Kazuya; KAMEDA, Tomohito; KUMAGAI, Shogo; YOSHIOKA, Toshiaki
- 1E7-10** Adsorption of heavy metal ions on montmorillonite modified with pentasodium tripolyphosphate crosslinked chitosan (Grad. Sch. Environmental Studies, Tohoku Univ.) ○HONDA, Reina; KAMEDA, Tomohito; KUMAGAI, Shogo; YOSHIOKA, Toshiaki
- 1E7-11** Adsorption of Ni²⁺ from aqueous solution using Zn-Al layered double hydroxide intercalated with cyclodextrin and its reaction analysis (Grad. Sch. Environmental Studies, Tohoku Univ.) ○TAKAIZUMI, Mao; KAMEDA, Tomohito; KUMAGAI, Shogo; YOSHIOKA, Toshiaki
- 1E7-12** Protein adsorption by thermoresponsive ionic liquid gels in water (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HAMA, Kenichiro; OKAFUJI, Akiyoshi; OHNO, Hiroyuki
- 1E7-13** Selective recovery of rhodium based on the difference in stability of ion-pairs formed by aromatic primary amines (Fac. Eng. Resource Sci., Akita Univ.) ○YAMAKAWA, Sumito; MATSUMOTO, Kazuya; JIKEI, Mitsutoshi

Chair: FUKAMINATO, Tsuyoshi (11 : 20~12 : 30)

- * 11:10-11:20: interval for laptop PC connection.(1E7-15, 1E7-17, 1E7-18, 1E7-19, 1E7-20)
- 1E7-15[#]** Polarization property of liquid crystal gratings fabricated by photopolymerization with moving light (Lab. Chem. Life Sci., Tokyo Tech.) ○AIZAWA, Miho; HISANO, Kyohei; SHISHIDO, Atsushi
- 1E7-17** Effects of Operating Environments and Electrode Structures on the Mobility of Ionomeric Polymer Actuators (Grad. Sch. Eng., Univ. of Fukui) ○SHOJI, Eiichi; HATASHITA, Masanori

- 1E7-18** Synthesis of Aromatic Polymer Electrolytes for fabricating High-Performance Polymer Actuators (The wakasa wan energy research center)
○HATASHITA, Masanori; SHOJI, Eiichi
- 1E7-19** Thermal Locomotion of Chiral Azobenzene Crystals (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) TANIGUCHI, Takuya; SUGIYAMA, Haruki; UEKUSA, Hidehiro; SHIRO, Motoo; OKOSHIMA, Hideko; ASAH, Toru
- 1E7-20[#]** Kamlet Taft parameter studies and COSMO-RS simulations for CST behaviors of ionic liquids (JAIST) ○GUPTA, Surabhi; VEDARAJAN, Raman; WATANABE, Masaki; ISHIKIRIYAMA, Mamoru; MATSUMI, Noriyoshi

Thursday, March 16, PM

- Chair: KIMIZUKA, Nobuo (13 : 40~14 : 40)
* 13:30-13:40: interval for laptop PC connection.(1E7-29)
- 1E7-29[#] CSJ Award for Creative Works** Development of Highly Sensitive Photoresponsive Molecular Materials (Grad. Sch. Mat. Sci., NAIST)
○KAWAI, Tsuyoshi
- Chair: KITAGAWA, Daichi (14 : 50~15 : 50)
* 14:40-14:50: interval for laptop PC connection.(1E7-36, 1E7-37, 1E7-38, 1E7-39, 1E7-40, 1E7-41)
- 1E7-36** Photochromic properties of 3-deoxyanthocyanidin capsules with hygroscopicity adjusted (TUT) ○MIHARA, Mai; SHIBATA, Naho; SHIBATA, Masashi
- 1E7-37** Superhydrophobic Surface Mimicking the Termite Wing, Fabricated by Photoinduced Crystal Growth of Diarylethenes. (Grad. Sch. Sci. Tech., Ryukoku Univ.) ○NISHIMURA, Ryo; MAYAMA, Hiroyuki; NONOMURA, Yoshimune; YOKOJIMA, Satoshi; NAKAMURA, Shimichiro; UCHIDA, Kingo
- 1E7-38** In situ microscopic observation for crystallization of Diarylethene film on the Aluminum plasmonic chip (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○KADOYAMA, Taiga; NISHIMURA, Ryo; TOMA, Mana; UCHIDA, Kingo; TAWA, Keiko
- 1E7-39** Photomechanical Function of Aminosalicylideneaniline Crystals (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○KOMIYA, Jun; MATSUDOMI, Masafumi; YAMANAKA, Daiki; FURUBE, Akihiro; KOSHIMA, Hideko; ASAH, Toru
- 1E7-40** Photoinduced dissolution and crystallization properties of arylazopyrazole derivatives in water (Fac. Eng., Kyushu Univ.) ○NAGAI, Yuki; ISHIBA, Keita; MORIKAWA, Masa-aki; KIMIZUKA, Nobuo
- 1E7-41** Substituent effect on photoreaction quantum yields of fluorescent diarylethene derivatives (Department of Chemistry, Rikkyo University)
○TAKASU, Shoya; MORIMOTO, Masakazu; IRIE, Masahiro

- Chair: HIRAHARA, Masanari (16 : 00~17 : 00)
* 15:50-16:00: interval for laptop PC connection.(1E7-43, 1E7-45, 1E7-46, 1E7-47, 1E7-48)
- 1E7-43[#]** Ultrafast internal conversion and S₁ state dynamics in the ring-opening reaction of a diarylethene derivative as revealed by time-resolved absorption and fluorescence spectroscopy (Grad. Sch. Eng. Sci., Osaka Univ.) ○SOTOME, Hikaru; UNE, Kanako; MIYASAKA, Hiroshi; KOBATAKE, Seiya; IRIE, Masahiro
- 1E7-45** Fluorescence photoswitching of Fluorescent Diarylethene Nanocrystals (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○HASHIMOTO, Takuma; FUKAMINATO, Tsuyoshi; KIM, Sunnam; OGATA, Tomonari; SUZUKI, Ryujyu; ONODERA, Tsunenobu; OIKAWA, Hidetoshi; KURIHARA, Seiji
- 1E7-46** Bending behavior of diarylethene crystals accompanying photochromic reaction and thermal phase transition (Grad. Sch. Eng., Osaka City Univ.) ○KAWASAKI, Kaito; KITAGAWA, Daichi; KOBATAKE, Seiya
- 1E7-47** Dependence of photoinduced bending behavior on irradiation intensity of UV light (Grad. Sch. Eng., Osaka City Univ.; Grad. Sch. Eng., Osaka Pref. Univ.) ○HIRANO, Akira; HASHIMOTO, Takuya; KITAGAWA, Daichi; KOBATAKE, Seiya
- 1E7-48** Synthesis of fluorescent diarylethene derivatives having hydrophilic substituents (Coll. Sci., Rikkyo Univ.) ○FUJINAMI, Sae; INATOME, Toru; TAKAGI, Yuta; MORIMOTO, Masakazu; IRIE, Masahiro

- Chair: FUKAMINATO, Tsuyoshi (17 : 10~18 : 10)
* 17:00-17:10: interval for laptop PC connection.(1E7-50, 1E7-51, 1E7-52, 1E7-53, 1E7-54, 1E7-55)
- 1E7-50** Thermal cycloreversion reaction of diarylethene closed-ring isomers accompanying acid addition (Grad. Sch. Eng., Osaka City Univ.) ○MAEMICHI, Hiroyuki; KITAGAWA, Daichi; KOBATAKE, Seiya
- 1E7-51** Light-starting irreversible low temperature thermosensor using photochromic diarylethenes (Grad. Sch. Eng., Osaka City Univ.) ○TANAKA, Koki; KITAGAWA, Daichi; KOBATAKE, Seiya
- 1E7-52** Photochromism of nanoparticles of heteroradical complexes (Coll. Sci. Eng., Aoyama Gakuin Univ.; Grad. Sch. Sci., Eng., Ehime Univ.; Grad. Sch. Sci., Eng., Yamagata Univ.) ○TOKUNAGA, Ayako; MUTOH, Katsuya; KOBAYASHI, Yoichi; ISHIBASHI, Yukihide; ASAH, Tsuyoshi; MASUHARA, Akito; ABE, Jiro
- 1E7-53** Oxidative cycloreversion chain-reaction of photochromic diarylthiazole derivatives (Grad. Sch. Mat. Sci., NAIST) ○ASATO, Ryojuku

- NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 1E7-54[#]** Synthesis and nanostructure studies of azobenzene/niobate hybrid nanoscrolls (Cent.Artificial Photosynthesis, TMU) ○HASSAN, Syed Zahid; NABETANI, Yu; UCHIKOSHI, Akino; MIYAJIMA, Souki; TACHIBANA, Hiroshi; INOUE, Haruo
- 1E7-55** Fabrication and evaluation of perovskite materials composed of amines with functional group (I) -Effect of carboxy groups- (Sci. Tec., Sophia Univ.) ○ARAI, Ryojuku; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro

- Chair: NAKASHIMA, Takuya (18 : 20~19 : 00)
* 18:10-18:20: interval for laptop PC connection.(1E7-57, 1E7-58, 1E7-59, 1E7-60)
- 1E7-57** Preparation and Photoelectrochemical Properties of ZnTe-AgInTe₂ Thin Film Photoelectrodes Using Colloidal Nanoparticles as a Precursor (Grad. Sch. Eng., Nagoya Univ.) ○KOBAYASHI, Yutaka; SUGIURA, Kouta; KAMEYAMA, Tatsuya; KUWABATA, Susumu; TORIMOTO, Tsukasa
- 1E7-58[#]** Fabrication of Cu-based delafossite Photocathodic p-Type Dye-Sensitized Solar Cells (Ins. of Chem., Academia Sinica; Ins. of Mater. Sci. Eng., Nat. Taipei Univ. of Tech.) ○ZHANG, Dai-ning; KUO, Chun-hong
- 1E7-59** Panchromatic Light-Harvesting Property for Dye-sensitized Solar Cells using Energy-relay system between two dyes (Fac. Textile Sci. Technol., Shinshu Univ.) ○KAWATA, Takahiro; KOBAYASHI, Nagao; KIMURA, Mutsumi
- 1E7-60** Comparison of the zeta potential of a flat sheet surface and particles' surface (ITCO; Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○NIGO, Hideyuki; TSUNESADA, Takeshi; TSUTSUMI, Hiromori

Friday, March 17, AM

- Chair: SEKI, Takahiro (9 : 00 ~10 : 00)
* 8:50-9:00: interval for laptop PC connection.(2E7-01, 2E7-02, 2E7-03, 2E7-04, 2E7-05, 2E7-06)
- 2E7-01** Photomechanical Behaviors of the Films of Azobenzene-based Amorphous Molecular Materials Formed on Agar Gel (Grad. Sch. of Eng., Muroran Inst. of Tech.) ○KITANO, Ayame; ICHIKAWA, Ryota; NAKANO, Hideyuki
- 2E7-02** Photoinduced Shape Changes of Mixed Particles Containing Azobenzene-based Amorphous Molecular Materials in Agar Gel (Grad. Sch. of Eng., Muroran Inst. of Tech.) ICHIKAWA, Ryota; ○NAKANO, Hideyuki
- 2E7-03** The driving and in vitro light-control of kinesin with a new azobenzene-based triphosphate (Sch. Sci., Hokkaido Univ.) ○ASHINO, Fumiya; MATSUO, Kazuya; TAMAOKI, Nobuyuki
- 2E7-04** Development of reversibly light-switchable inhibitors for kinesin-I and its application (RIES, Hokkaido Univ.) ○MATSUO, Kazuya; TAMAOKI, Nobuyuki
- 2E7-05** Synthesis of Photoresponsive Surfactants toward The Photocontrol of Cell Death (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○BABA, Kensuke; TAKASHIMA, Ryoya; FUKAMINATO, Tsuyoshi; KIM, Sunnam; OGATA, Tomonari; NIIDOME, Takuro; KURIHARA, Seiji
- 2E7-06** Development of stimuli-responsive hydrogels incorporating dual cross-links and their applications for cell culture (Grad. Sch. Eng. Sci., Osaka Univ.) ○MAEDA, Junki; NAKAHATA, Masaki; SAKAI, Shinji; HARADA, Akira; TAYA, Masahito

- Chair: NAKANO, Hideyuki (10 : 10~11 : 10)
* 10:00-10:10: interval for laptop PC connection.(2E7-08, 2E7-09, 2E7-10, 2E7-11, 2E7-12)
- 2E7-08** Photoreorientation behaviors of photoresponsive liquid crystalline polymer possessing chiral moiety (Sch. Eng., Nagoya Univ.) ○UEDA, Marina; SAN, Masami; HARA, Mitsuo; NAGANO, Shusaku; TAKAHIRO, Seki
- 2E7-09** Photoalignment Control of Liquid Crystalline and Microphase Separated Structures for POSS-LC Diblock Copolymers (Grad. Sch. Eng., Nagoya Univ.) ○OTSUKA, Yumi; HARA, Mitsuo; NAGANO, Shusaku; SEKI, Takahiro
- 2E7-10** Alignment Control of Ordered Self-Assembly Lamellar Structures Formed by a Liquid Crystalline Azobenzene Random Copolymers with a POSS Side-Chain Unit (Grad. Sch. Eng., Nagoya Univ.) ○NAGAI, Miho; HARA, Mitsuo; NAGANO, Shusaku; SEKI, Takahiro
- 2E7-11[#]** Helical naphthopyran dopant for photoresponsive cholesteric liquid crystal (RIES, Hokkaido Univ.) ○KIM, Yuna; FRIGOLI, Michel; VANTHUYNE, Nicolas; TAMAOKI, Nobuyuki
- 2E7-12[#]** Dynamic Solid-State Materials with Tweezers-Like Molecular Scaffolds (Grad. Sch. Eng., The Univ. of Tokyo) ○SHIBUYA, Yoshiki; ITOH, Yoshimitsu; AIDA, Takuzo
- Chair: ITOH, Yoshimitsu (11 : 20~12 : 20)
* 11:10-11:20: interval for laptop PC connection.(2E7-15, 2E7-18, 2E7-19, 2E7-20)
- 2E7-15[#] Young Scholar Lectures of CSJ** Rational Design of Highly Photoresponsive Molecular Orderings at 2-D Interface Based on Cooperative Self-Assembly (Grad. Sch. Eng., Kyoto Univ.) ○HIROSE, Takashi
- 2E7-18** Orientation in LC random copolymers composed of different

orientation mesogens and the free surface command system (Grad. Sch. Eng., Nagoya Univ.) ○IMANISHI, Ryota; HARA, Mitsuo; NAGANO, Shusaku; SEKI, Takahiro

- 2E7-19** Photo induced mass transfer by hetero interface on photo responsive polymer film (Grad. Sch. Eng., Nagoya Univ.) ○KITAMURA, Issei; HARA, Mitsuo; NAGANO, Shusaku; SEKI, Takahiro
- 2E7-20** Photoinduced mass transfer in heterointerfaces of liquid crystalline polymers by inkjet technique (Grad. Sch. Eng., Nagoya Univ.) ○OOSHII, Kazuaki; SEKI, Takahiro; NAGANO, Shusaku; HARA, Mitsuo

Friday, March 17, PM

Chair: TSUTSUMI, Osamu (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2E7-28, 2E7-30, 2E7-31, 2E7-32, 2E7-33)
- 2E7-28*** Photochemical Property of Negative Photochromic Naphthalene-bridged Phenoxyl-Imidazolyl Radical Complex (Coll. Sci. Eng., Aoyama Gakuin Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○MUTOH, Katsuya; KOBAYASHI, Yoichi; SOTOME, Hikaru; KOGA, Masafumi; MIYASAKA, Hiroshi; ABE, Jiro
- 2E7-30** Photochromism of Phenoxyl-Imidazolyl Radical Complexes with a Benzil Unit (Coll. Sci. Eng., Aoyama Gakuin Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○MAMIYA, Yukie; MUTOH, Katsuya; KOBAYASHI, Yoichi; SOTOME, Hikaru; MIYASAKA, Hiroshi; ABE, Jiro
- 2E7-31** Synthesis of photochromic terarylenes with elimination groups (Grad. Sch. Mat. Sci., NAIST) ○SHIMIZU, Daiya; LI, Ruiji; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 2E7-32** Circularly Polarized Luminescence of Hydrogen-Bonded Complex Containing Chiral Bisamidine and Achiral Dye in Solution (Coll. Sci., Rikkyo Univ.; Grad. Sch. Mat. Sci., NAIST) ○KANSAKU, Yaoki; SUZUKI, Nozomu; FUJIKI, Michiya; YAMANAKA, Masahiro
- 2E7-33** Thermoresponsive CPL/CD inversion of optically active polysilane microgel (Grad. Sch. Mat. Sci., NAIST) ○FUJIKI, Michiya; KATO, Yuka

Chair: YAMAUCHI, Kosei (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2E7-35, 2E7-36, 2E7-37, 2E7-38, 2E7-39)
- 2E7-35*** Photochemical behavior of Janus-faced Photochromic Molecules Composed of Negative and Positive Photochromic Moieties (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○YONEKAWA, Izumi; MUTOH, Katsuya; KOBAYASHI, Yoichi; ABE, Jiro
- 2E7-36** Stepwise Two-Photon-Gated Photochromic Reaction of Bis(pentaarylbiimidazole) (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○YAMAMOTO, Katsuya; MUTOH, Katsuya; KOBAYASHI, Yoichi; ABE, Jiro
- 2E7-37*** Stepwise Two-Photon Photochemical Reaction of a Bis(Phenoxyl-Imidazolyl Radical Complex) (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○TOSHIMITSU, Shota; MUTOH, Katsuya; KOBAYASHI, Yoichi; ABE, Jiro
- 2E7-38** Synthesis and Photochromic Properties of High Performance Naphthopyran Derivatives (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○INAGAKI, Yuki; MUTOH, Katsuya; KOBAYASHI, Yoichi; ABE, Jiro
- 2E7-39*** Photo-switching of Circularly Polarized Luminescence Based on Photochromic Foldamer (Grad. Sch. Mat. Sci., NAIST) ○HASHIMOTO, Yuichiro; NAKASHIMA, Takuya; FUJIWARA, Kohei; YAMADA, Miku; YUASA, Junpei; KAWAI, Tsuyoshi

Chair: GOTO, Yasutomo (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2E7-42, 2E7-43, 2E7-44, 2E7-45, 2E7-46, 2E7-47)
- 2E7-42** Aggregation-Controlled Emission of NHC Gold Complexes (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○NAKAMURA, Shin-ya; TSUTSUMI, Osamu; KATAM, Srinivas; GANESAN, Prabusankar
- 2E7-43** Aggregation-Controlled Phosphorescence from Fluorinated Liquid-Crystalline Gold Complexes (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○TANEKI, Kensuke; YAMADA, Shigeyuki; TSUTSUMI, Osamu
- 2E7-44** Relationship between Crystal Size and Luminescence Behavior of Trinuclear Gold Complexes (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○NAKATA, Manami; TSUTSUMI, Osamu; OTA, Mie; AMEYAMA, Kei
- 2E7-45** Aggregation-Controlled Emission from Gold Complexes in Organogels (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○FUKUHARA, Ryota; TSUTSUMI, Osamu
- 2E7-46** Photoreponse of azobenzene spheres with Aggregation-Induced Emission Enhancement characteristics (Grad. Sch. Eng., Tottori Univ.) ○ABE, Ikue; HAN, Mina; MATSUURA, Kazunori
- 2E7-47** Emission characteristics of tetracyanoquinodimethane depending on solvent (Grad. Sch. of Eng., Murooran Inst. of Tech.) ○TAMAYA, Honami; NAKANO, Hideyuki; IIMORI, Toshifumi

Chair: KOBAYASHI, Yoichi (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(2E7-49, 2E7-50, 2E7-51, 2E7-52)
- 2E7-49** Synthesis and Emitting Behaviors of 1,4-Bis(2-cyano-2-{4-[5-(4-methylphenoxy)pentyl]phenyl}ethenyl)-2,5-dimethoxybenzene (Grad. Sch. of Eng., Murooran Inst. of Tech.; RIES, Hokkaido Univ.) ○KANNEKO, Ryohei; ARA, Takuya; YONETA, Syoji; SAGARA, Yoshimitsu; TAMAOKI,

Nobuyuki; NAKANO, Hideyuki

- 2E7-50** Emission Properties of Amorphous Molecular Materials Possessing Pyrene Moieties (Grad. Sch. of Eng., Murooran Inst. of Tech.) ○YONETA, Shoji; NAGATA, Eisuke; ARA, Takuya; NAKANO, Hideyuki
- 2E7-51** Three-Photon-Induced Solid-State Emission Properties of D- π -A Type Extended Fluorene Derivatives (IFMRI, AIST; Sch. Sci. Tech., Kwansai Gakuin Univ.; Laboratory of Chemistry, ENS de Lyon.) ○MIZUTANI, Ryota; BRETONNIÈRE, Yann; BALDECK, Patrice; ANDRAUD, Chantal; KAMADA, Kenji
- 2E7-52** Laser Desorption/Ionization Mass Spectrometry using Mesoporous Organosilica (Toyota Central R&D Labs., Inc.; The Noguchi Institute) ○GOTO, Yasutomo; MIZOSHITA, Norihiro; MAEGAWA, Yoshifumi; YOSHIDA, Akihiro; HACHISU, Kazuko; SHIRAI, Takashi; MASTUDA, Akio; AMANO, Junko; INAGAKI, Shinji

Saturday, March 18, AM

Chair: KIMURA, Mutsumi (9 : 00 ~9 : 40)

- * 8:50-9:00: interval for laptop PC connection.(3E7-01, 3E7-02, 3E7-03, 3E7-04)
- 3E7-01** Fabrication of photo-electro functional DNA highly-oriented hybrid film by utilizing high AC electric field (Fac. Eng., Chiba Univ.) ○MIYAZAKI, Tsukasa; KUNIKYO, Taiki; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 3E7-02** Fabrication of BisX (X = Br, I) photoelectrodes and their photoelectrochemical performance under visible light (Sch. Eng., Kyoto Univ.) ○MASUMOTO, Kaiei; KUNIYUKU, Hironobu; ABE, Ryu; HIGASHI, Masanobu; TOMITA, Osamu
- 3E7-03** Electrochemical modulation of luminescent color based on control of excited energy transfer process by electrochromic reaction (Fac. Eng., Chiba Univ.) ○YANAGAWA, Namiko; KOMIYA, Yuta; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 3E7-04** Preparation of photochromic films using cellulose derivatives. (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○YAMAZAKI, Suzuko; SHIMIZU, Dai

Asian International Symposium -Photochemistry-

Saturday, March 18, PM

(13 : 10~13 : 20)

- 3E7-26*** Opening Remarks (NAIST) ○Kawai, Tsuyoshi (13:10~13:20)

Chair: Kawai, Tsuyoshi (13 : 20~14 : 30)

- 3E7-27*** Keynote Lecture Physicochemical Properties of Molecular Photoswitches under Confinement (Weizmann Institute of Science) ○Klajn, Rafal (13:20~13:50)
- 3E7-30*** Invited Lecture Extraction of Unique Emission and Absorption Characteristics by Stabilization of Triplet Excitons (Tokyo Tech) ○Hirata, Shuzo (13:50~14:10)
- 3E7-32*** Invited Lecture Fast Photochromic Reactions with Stepwise Two-Photon Absorption Processes (Aoyama Univ.) ○Kobayashi, Yoichi (14:10~14:30)

(14 : 30~14 : 40)

- 3E7-34*** Computer Setting and Break (14:30~14:40)

Chair: Abe, Jiro (14 : 40~15 : 50)

- 3E7-35*** Keynote Lecture Soluble and Stable Acene Based Molecules and Materials (National University of Singapore) ○Chi, Chunyan (14:40~15:10)
- 3E7-38*** Invited Lecture Flexible Fluorophore and Photoactive Soft Materials (Kyoto Univ.) ○Saito, Shohei (15:10~15:30)
- 3E7-40*** Invited Lecture From Nanographenes to Molecular Graphites (NAIST) ○Aratani, Naoki (15:30~15:50)

(15 : 50~16 : 00)

- 3E7-42*** Computer Setting and Break (15:50~16:00)

Chair: Vacha, Martin (16 : 00~17 : 10)

- 3E7-43*** Keynote Lecture Strategies to Reduce the Rate of Charge Recombination (IISER-TVM) ○Hariharan, Mahesh (16:00~16:30)
- 3E7-46*** Invited Lecture Electrochemically triggered modulation of emission and coloration using fluoroanilines (Chiba Univ.) ○Nakamura, Kazuki (16:30~16:50)
- 3E7-48*** Invited Lecture Directed Self-Assembly of Quantum Dots (NAIST) ○Nakashima, Takuya (16:50~17:10)

(17 : 10~17 : 20)

- 3E7-50*** Closing Remarks (Osaka Univ.) ○Miyasaka, Hiroshi (17:10~17:20)

Functions of Materials

Sunday, March 19, AM

Chair: IIMORI, Toshifumi (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4E7-01, 4E7-02, 4E7-03, 4E7-05, 4E7-06)

4E7-01 Multi-color Fluorescence Photoswitching Based on The Non-linear Fluorescence Quenching in Diarylethene Nanoparticles (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○ISHIDA, Sanae; FUKAMINATO, Tsuyoshi; KIM, Sunnam; OGATA, Tomonari; KURIHARA, Seiji**4E7-02** Effect of Photocycloversion Reaction Quantum Yields on The Non-linear Fluorescence Photoswitching in Fluorescent Diarylethene Nanoparticles (Fac. Adv. Sci. Tech., Kumamoto Univ.) ○FUKAMINATO, Tsuyoshi; ISHIDA, Sanae; KIM, Sunnam; OGATA, Tomonari; KURIHARA, Seiji**4E7-03** Multicolor fluorescence on/off switching of diarylethene nanoparticles accompanying photochromic reactions (Grad. Sch. Eng., Osaka City Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○NAKAHAMA, Tatsumoto; KITAGAWA, Daichi; SOTOME, Hikaru; ITO, Syoji; MIYASAKA, Hiroshi; KOBATAKE, Seiya**4E7-05** Ring-opening reaction of diarylethene nanoparticles under intense nanosecond pulse irradiation (Grad. Sch. Sci., Eng., Ehime Univ.) ○MASUDA, Keisuke; ISHIBASHI, Yukihide; ASAH, Tsuyoshi**4E7-06** Exciton Dynamics and Luminescence Switching of the Hybrid System of CdSe Nanoparticles with Various Diarylethene Derivatives (Kwansei Gakuin Univ.) ○KINOSHITA, Ken; UEMOTO, Kenta; USUI, Yuta; KATAYAMA, Tetsuro; MORIMOTO, Masakazu; IRIE, Masahiro; TAMAI, Naoto

Chair: YAMAMOTO, Youhei (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4E7-08, 4E7-09, 4E7-10, 4E7-11, 4E7-12, 4E7-13)

4E7-08 The Determination of Quantum Yield of Photoreaction in Solution by Absolute Method (Grad. Sch. Eng., Kyoto Univ.) ○HIGASHIGUCHI, Kenji; YOTSUJI, Hajime; MATSUDA, Kenji**4E7-09** Luminescence control of CdTe QDs by diarylethene derivatives (Kwansei Gakuin Univ.; Grad. Sch. Sci., Rikkyo Univ.) ○UEMOTO, Kenta; KINOSHITA, Ken; KATAYAMA, Tetsuro; MORIMOTO, Masakazu; IRIE, Masahiro; TAMAI, Naoto**4E7-10** Single nanoparticle fluorescence spectroscopy of perylene-3,4,9,10-tetracarboxylic diimide derivatives (Grad. Sch. Sci., Eng., Ehime Univ.) ○SASAKI, Shino; ASAH, Tsuyoshi**4E7-11** Preparation of carbon dots by using starch and their fluorescent property (Sch. Eng., Muroran Inst. of Tech.) ○SHIBATA, Hisahiko; IIMORI, Toshifumi**4E7-12** Emitting Behaviors of 1-Acetylamino-pyrene Dispersed in Poly(vinyl acetate) Film (Grad. Sch. of Eng., Muroran Inst. of Tech.) ○TAKAHASHI, Hiroki; OGURA, Kosuke; SHISHIDO, Kazuki; NAKANO, Hideyuki**4E7-13** Reversible Color Change of 4,4'-Bis[bis(4-methylphenyl)amino]azobenzene and Organic Acid Binary Films (Grad. Sch. of Eng., Muroran Inst. of Tech.) ○KITAMURA, Yuya; ICHIKAWA, Ryoji; NAKANO, Hideyuki

Chair: HIGASHIGUCHI, Kenji (11 : 20 ~ 12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4E7-15, 4E7-16, 4E7-17, 4E7-18, 4E7-19, 4E7-20)

4E7-15 Synthesis of novel DNA composite material having functional surfactant molecule and its application for luminescent materials. (Fac. Eng., Chiba Univ.) ○MANO, Akane; ITAMOTO, Natumi; NAKAMURA, Kazuki; KOBAYASHI, Norihisa**4E7-16** Thermochromism and crystallinities for P3HT nanoparticles by re-precipitation (Sch. Eng., Nagoya Univ.) ○SUETSUGU, Kota; HARA, Mitsuo; NAGANO, Shusaku; SHITO, Keiji; SATO, Toshimitu; MASUHARA, Akito; SEKI, Takahiro**4E7-17** Near-Infrared Whispering Gallery Mode Photoluminescence from Conjugated Polymer Blend Microspheres via Intrasphere FRET (Sch. Sci. Eng., Univ. of Tsukuba) ○OKI, Osamu; KUSHIDA, Soh; TAKEDA, Youhei; MINAKATA, Satoshi; KUWABARA, Junpei; KANBARA, Takaki; THANG, Dao; ISHII, Satoshi; NAGAO, Tadaaki; YAMAMOTO, Yohei**4E7-18** π -Conjugated Polymer Microdisk Arrays by Patterned Dewetting (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○AIKYO, Yusuke; KUWABARA, Junpei; KANBARA, Takaki; MINARI, Takeo; YAMAMOTO, Yohei**4E7-19** Fluorescence switching of silica nanoparticle covered with diarylethene polymer (Grad. Sch. Eng., Osaka City Univ.) ○SHIMIZU, Katsuya; KITAGAWA, Daichi; KOBATAKE, Seiya**4E7-20** The photochemical behavior of novel synthesized divalent cationic porphyrin on clay surface (Urban Environmental Sci., TMU) ○OSAKI, Yutaka; SUZUKI, Syunpei; TATSUMI, Daichi; SHIMADA, Tetsuya; TAKAGI, Shinsuke

Sunday, March 19, PM

Chair: TAKAGI, Shinsuke (13 : 30 ~ 14 : 30)

* 13:20-13:30: interval for laptop PC connection.(4E7-28, 4E7-30, 4E7-31, 4E7-33)

4E7-28 Photon upconversion properties of nano porous glass with sensitizer dye fixed on the surface of the nano pores of the glass (IFMRI, AIST) ○MIZOKURO, Toshiko; SAKAGANI, Yusuke; NISHII, Ritsuki; ABULIKEMU, Aizitaili; SUZUKI, Kengo; JIN, Tetsuro; KAMADA, Kenji**4E7-30** Upconversion Emission Using Amorphous Molecular Materials (Grad. Sch. of Eng., Muroran Inst. of Tech.) ○SHISHIDO, Kazuki; NAKANO, Hideyuki**4E7-31** Photon upconversion based on triplet sensitization using perovskite nano particles (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST) ○MASE, Kazuma; YANAI, Nobuhiro; KIMIZUKA, Nobuo**4E7-33** Development of NIR-to-blue photon upconversion materials (Grad. Sch. Eng., Kyushu Univ.) ○SASAKI, Yoichi; AMEMORI, Shogo; YANAI, Nobuhiro; KIMIZUKA, Nobuo

Chair: OKADA, Tomohiko (14 : 40 ~ 15 : 40)

* 14:30-14:40: interval for laptop PC connection.(4E7-35, 4E7-37, 4E7-39, 4E7-40)

4E7-35 Microwave synthesis of light emitting metal complex (Minerva Light Lab.) ○MATSUMURA, Takeko; MASUDA, Yoshitaka; YAMASHITA, Kazunori**4E7-37** Photostability for multifunctional inorganic-organic composite phosphors with lanthanide complexes embedded in fibrous clays (Office for University-Industry Collaboration, Osaka Univ.) ○KAIZAKI, Sumio; SHIROTANI, Dai; IWAMATSU, Masako; KATO, Yumiko; SATO, Hisako; YAMAZAKI, Suzuko; KAJIWARA, Atsushi; HIOKI, Ayako; MATSUMURA, Takeko; YAMASHITA, Kazunori; KISHI, Munetaka**4E7-39** Orientation of niobate oxide nanosheets liquid crystals by radiation pressure of a laser beam: dependence of orientation on polarization direction of the laser beam (Fac. Sci., Yamaguchi Univ.) ○NAGASHITA, Takashi; HIGASHI, Yuki; TOMINAGA, Makoto; SUZUKI, Yasutaka; KAWAMATA, Jun; KUMAMOTO, Takuya; NAKATO, Teruyuki**4E7-40** Nanostructure and photo-induced morphology change of layered hybrids prepared under the pH-controlled conditions (Fac. Eng., Univ. of Miyazaki; Grad. Sch. Urban Environmental Sci., TMU) ○NABETANI, Yu; HASSAN, Syed Zahid; HORIGUCHI, Haruo; TACHIBANA, Hiroshi; INOUE, Haruo

Chair: SUZUKI, Yasutaka (15 : 50 ~ 16 : 40)

* 15:40-15:50: interval for laptop PC connection.(4E7-42, 4E7-44, 4E7-45, 4E7-46)

4E7-42 Preparation of Chromic Ni complex/inorganic layered materials hybrids and their photochemical behavior (Grad. Sch. Fac. Sci. Eng., Shimane Univ.) ○FUJIMURA, Takuya; ANADA, Shinnya; SASAI, Ryo**4E7-44** Hybridization of a fluorescent diketone derivative with a layered silicate (Fac. Eng., Shinshu Univ.; Fac. Edu., Shinshu Univ.) ○HIROSE, Mutsumi; ITO, Fuyuki; OKADA, Tomohiko**4E7-45** Close-packed Colloidal Crystals Fabricated Using the Monodisperse Spherical Silica Particles Coated with a Layered Silicate (Fac. Eng., Shinshu Univ.) ○TAKADA, Chisato; OTA, Chiharu; OKADA, Tomohiko**4E7-46** Fabrication of Semiconductor Nanosheets-Dye Complex (Grad. Sch. Urban Environmental Sci., TMU) ○SONOTANI, Amane; SHIMADA, Tetsuya; TAKAGI, Shinsuke

Room E8

Fourth Building Independence Wing
D310Organic Chemistry -Reaction and Synthesis-
Heteroatom Compounds

Thursday, March 16, AM

Chair: YAMAMURA, Masaki (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1E8-08, 1E8-09, 1E8-10, 1E8-11, 1E8-12, 1E8-13)

1E8-08 Synthesis, structure and reactivity of diboryldiphosphene dianion (Grad. Sch. Sci. Eng., Chuo Univ.; Fac. Sci. Eng., Chuo Univ.; Grad. Sch. Eng., Nagoya Univ.) ○ASAMI, Shun-suke; SUZUKI, Katsunori; YAMASHITA, Makoto**1E8-09** Reaction of double bonds between heavier main group elements with NHC (Fac. Sci. Eng., Kindai Univ.) ○SADAMORI, Kazuya; HAYAKAWA, Naoki; TSUJIMOTO, Shota; HATANAKA, Miho; WAKABAYASHI, Tomonari; MATSUO, Tsukasa**1E8-10** Reactions of Stable Diallylphosphinyl Radical with Borane-com-

- plexes (Grad. Sch. Sci., Tohoku Univ.) ○ ICHIKAWA, Hitomi; ISHIDA, Shintaro; IWAMOTO, Takeaki
- 1E8-11** Synthesis, Structure, and Property of Bulky 2,2,5,5-tetraaryl-1-phosphacyclopentanes (Grad. Sch. Sci., Tohoku Univ.) ○ MIURA, Yasunori; ISHIDA, Shintaro; IWAMOTO, Takeaki
- 1E8-12** Development of Electrophilic C-H Borylation of Aromatic Compounds (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○ UEURA, Kenta; ODA, Susumu; HATAKEYAMA, Takuji
- 1E8-13** Mechanistic Study on the Reaction of Tetraaryldiborane(4) with Dihydrogen (Grad. Sch. Sci. Eng., Chuo Univ.; Grad. Sch. Eng., Nagoya Univ.; Hong Kong Univ. Sci. Tech.) ○ TSUKAHARA, Nana; ASAKAWA, Hiroki; YAMASHITA, Makoto; LEE, Ka-ho; LIN, Zhenyang

Chair: SUZUKI, Katsunori (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1E8-15, 1E8-17, 1E8-18, 1E8-19, 1E8-20)
- 1E8-15*** Structure and photosensitized reaction of chiral BODIPY derivatives with circularly polarized luminescence (CPL) (Grad. Sch. Sci. Eng., Kindai Univ.) ○ TAKEUCHI, Noritaka; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 1E8-17** Synthesis and Properties of Chiral Phosphangulenes Having Fluorescent Units (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○ NIN, Kazu; SUKEGAWA, Kimiya; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 1E8-18** Synthesis and Physical Properties of Nitrogen-Centered Triphosphatriangulenes (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○ WATANABE, Yusuke; NAKATSUKA, Soichiro; HATAKEYAMA, Takuji
- 1E8-19** Redox properties of aromatic compounds containing a phosphorus atom (Fac. Sci., Fukuoka Univ.) NAGAHORA, Noriyoshi; ○ HANADA, Takuya; OGAWA, Tamaki; SHIOJI, Kosei; OKUMA, Kentaro
- 1E8-20** Synthesis and fluorescence sensing properties of (D- π)₃-A type triazine derivatives with aza-crown ethers as an electron donating group (Iwate Univ. Fac. of Sci. and Engin.) ○ SASAKI, Hikaru; MURAOKA, Hiroki; OGAWA, Satoshi

Thursday, March 16, PM

Chair: TAJIMA, Tomoyuki (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1E8-28, 1E8-29, 1E8-30, 1E8-32, 1E8-33)
- 1E8-28** Development of Chiral Phase-Transfer Catalyzed Asymmetric Umpolung Michael Addition Reaction of α -iminoesters (Grad. Sch. Eng., Chiba Univ.) ○ MORIYA, Yuta; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami
- 1E8-29** Development of Chiral Phase-Transfer Catalyzed Asymmetric Umpolung Domino Cyclization Reaction of α -Iminoamides (Fac. Eng., Chiba Univ.) ○ HIROSHIGE, Tomohiko; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami
- 1E8-30*** Synthesis, Structure, and Reactivity toward Burgess Reagent of Amidinopyrroles and Amidinoimidazoles (Sch. Sci., Kitasato Univ.) KUROTAKE, Takanori; SAWAMURA, Yukihiko; KIKUCHI, Yuichi; ABE, Shinya; ○ UCHIYAMA, Yosuke; RUNYON, Jason; DOLPHIN, Joshua; SCHINNEN, Christoph; ARDUENGO, Anthony
- 1E8-32** Synthesis of an *N*-Heterocyclic Carbene Bearing 9-Triptylmethyl Groups and its Metal Complexes (Coll. Sci., Rikkyo Univ.) ○ HARA, Natsuko; MINOURA, Mao
- 1E8-33** Development of modified Mitsunobu reaction using 2-arylzocarbonylates (Inst. Sci. Eng., Kanazawa Univ.; Inst. Med. Pharm. Health Sci., Kanazawa Univ.) ○ HIROSE, Daisuke; TANIGUCHI, Tsuyoshi

Chair: UCHIYAMA, Yosuke (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1E8-35, 1E8-36, 1E8-37, 1E8-38, 1E8-39, 1E8-40)
- 1E8-35** Synthesis and Reaction of Phosphorus- and Silicon Compounds Bearing a Bulky Aromatic Ligand (Coll. Sci., Rikkyo Univ.) ○ SUZUKI, Fumiaki; MINOURA, Mao
- 1E8-36** Binaphthoxy-substituted phosphoselenoates with allylic groups: synthesis, reduction, and cyclization (Fac. Eng., Gifu Univ.) ○ IWATA, Koji; MAEKAWA, Yuuki; MURAI, Toshiaki
- 1E8-37** Synthesis and applications of binaphthoxy-substituted phosphonates and phosphonochalcogenoates having a tri- and tetrasubstituted carbon center adjacent to a phosphorus atom (Fac. Eng., Gifu Univ.) ○ MAEKAWA, Yuuki; MURAI, Toshiaki
- 1E8-38** Synthesis and Structural Determination of Novel Dication Compounds having Heavier Pnictogens as a Central Atom (Grad. Sch. Sci. Eng., TMU) ○ SAKABE, Masato; SATO, Soichi
- 1E8-39** Development of arsenic halogenation associated with removal of iodomethane and utilization for nucleophilic reaction (KIT) ○ TANAKA, Susumu; IMOTO, Hiroaki; NAKA, Kensuke
- 1E8-40** Synthesis of Pt(II) complex with 9-arsafluorene derivatives having various substituents on the arsenic atom (KIT) ○ SASAKI, Hiroshi; TANAKA, Susumu; IMOTO, Hiroaki; NAKA, Kensuke

Chair: SASE, Shohei (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1E8-42, 1E8-43, 1E8-44, 1E8-45, 1E8-46, 1E8-47)

- 1E8-42** Synthesis of 2,6-bisaryldithienoarsole derivatives containing various substituents (KIT) ○ KAWASHIMA, Ikuo; YAMAZAWA, Chieko; TANAKA, Susumu; IMOTO, Hiroaki; NAKA, Kensuke
- 1E8-43** Synthesis and Characterization of Aryl-functionalized Dibenzothienotriathienophene Derivatives (Faculty of Science and Engineering, Iwate University) ○ SATO, Keita; MURAOKA, Hiroki; OGAWA, Satoshi
- 1E8-44** Synthesis of Benzo[1,2-*b*:4,3-*b'*]dithiophene Derivatives Having Triisopropylsilylethynyl Groups. (Fac. Sys. Eng., Wakayama Univ.) ○ HONDA, Kazuichiro; OSUGA, Hideji; SAKAMOTO, Hidehumi
- 1E8-45** Photosensitizing Property of Thiocarbonyl Dyes Encapsulated in Single-Walled Carbon Nanotube (Grad. Sch. Env. Sci., Okayama Univ.) ○ ISHIMOTO, Kango; MIYAKE, Hideaki; TAJIMA, Tomoyuki; OTSU, Yuki; TAKAGUCHI, Yutaka
- 1E8-46** Synthesis and Properties of a Polyamidoamine Dendrimer Having Mercaptoandecahydrodecaborate Terminals (Grad. Sch. Env. Life Sci., Okayama Univ.) ISIMOTO, Kango; ○ OTSU, Yuki; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka
- 1E8-47** Preparation and Optical and Electrochemical Properties of Diphthalocyanine Linked with a TTF Unit (#Organization for Research Promotion, Iwate Univ.) ○ KIMURA, Takeshi

Friday, March 17, AM

Chair: MURAOKA, Hiroki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2E8-08, 2E8-09, 2E8-10, 2E8-11, 2E8-12, 2E8-13)
- 2E8-08** Radical Mediated Alkylation of Tetrafluoroethylene via Minisci-type Reaction (Sch. Eng., Osaka Univ.) ○ KUSAKA, Shiori; KIKUSHIMA, Kotaro; OHASHI, Masato; OGOSHI, Sensuske
- 2E8-09** Synthetic Method of Sulfur-Substituted Difluoroalkenes via Difluoromethylation of Dithioesters (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○ YAMADA, Atsushi; FUCHIBE, Kohei; ICHIKAWA, Junji
- 2E8-10*** Synthesis of Triflones by Electrophilic Trifluoromethylthiolation Reagents (Fac. Eng. Nagoya Inst. of Tech.) ○ JIA, Shichong; HUANG, Zhongyan; TOKUNAGA, Etsuko; SUMII, Yuji; SHIBATA, Norio
- 2E8-11** Elucidation of Reaction Process through β -Halogen Elimination in Vinylic Rosenmund-von Braun Reaction of (*E*)-(1-bromo-2-iodo-but-1-en-1-yl) benzene (Grad. Sch. Sci. Tech., Ryukoku Univ.) ○ ENDO, Naoki; IWASAWA, Tetsuo
- 2E8-12** Development of Facile-Preparable Chiral Hypervalent Iodine(V) Reagents and Their Applications (Grad. Sch. Eng., Chiba Univ.) ○ MAGARA, Akina; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami
- 2E8-13** Asymmetric Difluoromethylthiolation Reaction of β -Keto Esters using Difluoromethanesulfonyl Hypervalent Iodonium Ylides (Fac. Eng. Nagoya Inst. of Tech.) ○ SATOSHI, Gondo; OKIYA, Matsubara; ETSUKO, Tokunaga; SHIBATA, Norio

Chair: NAKAHODO, Tsukasa (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(2E8-15, 2E8-16, 2E8-17, 2E8-18, 2E8-19)
- 2E8-15** Dehydrogenative Coupling of Aryliodinanes with Phenols via [3,3]-Sigmatropic Rearrangement (Dep. Chem., Sch. Sci., Kyoto Univ.) ○ HORI, Mitsuki; YANAGI, Tomoyuki; NOGI, Keisuke; YORIMITSU, Hideki
- 2E8-16** Acid anhydride-mediated reactions of aryl sulfoxides with anilines (Dep. Chem., Sch. Sci., Kyoto Univ.) ○ YANAGI, Tomoyuki; NOGI, Keisuke; YORIMITSU, Hideki
- 2E8-17** Synthesis of *P*-chiral phosphonochalcogenoate derivatives with a binaphthyl group via axis-to-center chirality transfer reaction (Fac. Eng., Gifu Univ.) ○ KUWABARA, Kazuma; MAEKAWA, Yuuki; MURAI, Toshiaki
- 2E8-18** Synthesis and properties of 2,4,6-tri(5-aryl-2-thienyl)-1,3,5-triazine derivatives modified with electron-donating groups (Faculty of Science and Engineering, Iwate University) ○ OBARA, Takumi; MURAOKA, Hiroki; OGAWA, Satoshi
- 2E8-19** Synthesis and Properties of 1,4-Diaryl-1-phosphino-1,3-butadiene Derivatives (Grad. Sch. Sci., Eng., Saitama Univ.) ○ KIKUSHIMA, Chiharu; NAKATA, Norio; ISHII, Akihiko

Friday, March 17, PM

Chair: SUGAMATA, Koh (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2E8-35, 2E8-36, 2E8-37, 2E8-38, 2E8-39, 2E8-40)
- 2E8-35** One-Pot Synthesis of a *P*-Chirogenic Three-Hindered Quadrant Phosphine Ligand (Nippon Chemical Industrial Co., Ltd.) ○ IMAMOTO, Tsunoe; TAMURA, Ken
- 2E8-36** Buchwald-Hartwig Amination Reaction of Phosphinines Bearing Halogen Substituent (Fac. Sci., Fukuoka Univ.) ○ GOTO, Shoko; NAGAHORA, Noriyoshi; SHIOJI, Kosei; OKUMA, Kentaro
- 2E8-37** Wittig reactions of a non-stabilized phosphonium ylide bearing a bismaphosphatriptycene skeleton with benzaldehydes and observation of their intermediates (Sch. Sci., Kitasato Univ.) ○ WATANABE, Ryo; OHTSUKI, Takemaru; MURAKAMI, Rikiya; UCHIYAMA, Yosuke
- 2E8-38** Substituent Effect of Phosphonate Group in the Ring-Opening

Reaction of Cyclobutenes (Grad. Sch. Eng., Kyoto Univ.) ○YANO, Takaaki; ISHIDA, Naoki; MURAKAMI, Masahiro

- 2E8-39[#]** Metal-free reductive deoxygenation of sulfoxides by organosilicon reducing reagent (Grad. Sch. Eng. Sci., Osaka Univ.) ○BHATTACHARJEE, Argha; YURINO, Taiga; TSURUGI, Hayato; MASHIMA, Kazushi
- 2E8-40** A new radical cascade reactions via direct substitution reaction on tin atom (Fac. Eng., Yamaguchi Univ.) ○ITAYA, Tomoyuki; FUKUSHIMA, Masato; MIYAZAKI, Koishiro; KAWAMOTO, Takuji; KAMIMURA, Akio

Chair: NAGAHORA, Noriyoshi (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2E8-42, 2E8-43, 2E8-44, 2E8-45, 2E8-46)
- 2E8-42** Reaction of alkenyl sulfoxides with phenols mediated by acid anhydrides (Dep. Chem., Sch. Sci., Kyoto Univ.) ○BANNO, Rikito; NOGI, Keisuke; YORIMITSU, Hideki
- 2E8-43** 2-(3-Pyridyl)-5-Aminothiazole and its Methylated Compounds: Synthesis and Properties (Fac. Eng., Gifu Univ.) ○TSUCHIYA, Yuki; YAMAGUCHI, Kirara; MURAI, Toshiaki
- 2E8-44** 5-Aminothiazoles having a Varieties of Substituents at the 4- and 5-positions: Synthesis and Photophysical Properties (Fac. Eng., Gifu Univ.) ○NAKATSU, Yuta; YAMAGUCHI, Kirara; MURAI, Toshiaki
- 2E8-45** Model Study on Highly Reactive Species Derived from a Cys-Ser Dipeptide by Taking Advantage of a Large Molecular Cavity (Sch. Sci., Tokyo Tech.) ○WATANABE, Nozomu; SASE, Shohei; GOTO, Kei
- 2E8-46*** Synthesis and Structural Characterization of a Stable Bis(methylene) sulfane (Fac. Sci. Eng., Toyo Univ.) ○SUGAMATA, Koh; ISHII, Shigeru

Saturday, March 18, AM

Chair: ISHIDA, Shintaro (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3E8-01, 3E8-02, 3E8-03, 3E8-04, 3E8-05, 3E8-06)
- 3E8-01** Synthesis of Diboryl-substituted Tetraselanylbenzene and Theoretical Investigation on its Electronic State (Grad. Sch. Sci., Eng., Saitama Univ.) FUJITA, Masahiro; FURUKAWA, Shunsuke; ○SAITO, Masaichi
- 3E8-02** Synthesis, Structure and Fluorescence Behavior of Various Selenoesters with Imidazo[1,5-a]pyridine Skeleton (Coll. Eng., Chubu Univ.) ○SAWAYANAGI, Dai; NIYOMURA, Osamu
- 3E8-03** Reactions of Nitrogen Ylides Substituted with a Selenocarbonyl Group with Heteroatom Nucleophiles or Alkynes (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○MATUNO, Misato; FURUYAMA, Taniyuki; MAEDA, Hajime; SEGI, Masahito
- 3E8-04** Synthesis and Oxidation of Fluorescent 1,4-Diaryl-1,3-butadiene Derivatives having Phenylseleno Groups (Grad. Sch. Sci., Eng., Saitama Univ.) ○OSHIMA, Yusuke; NAKATA, Norio; ISHII, Akihiko
- 3E8-05** Elucidation of the Stability and Reactivity of a Selenocysteine-derived Selenenic Acid by Taking Advantage of a Large Molecular Cavity (Sch. Sci., Tokyo Tech.) ○KIMURA, Ryutarou; SASE, Shohei; GOTO, Kei
- 3E8-06[#]** Building a seleno-sugar skeleton from water-soluble 5-membered cyclic selenide DHS (Sch. Sci., Tokai Univ.) ○HIYOSHI, Yuta; IWAOA, Michio

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

- * 10:00-10:10: interval for laptop PC connection.(3E8-08, 3E8-10, 3E8-11, 3E8-12, 3E8-13)
- 3E8-08*** Novel *N*-alkylation by carboxylic acids with borohydride reagents (Sch. Pharm., Iwate Med. Univ.) ○TAMURA, Satoru; SATO, Keigo; KAWANO, Tomikazu
- 3E8-10[#]** Reactions of a Phosphorane-Trihydroborate with Iodo-Substituted Aliphatic Hydrocarbons (Grad. Sch. Sci., The Univ. of Tokyo) ○O'BRIEN, Nathan; KANO, Naokazu
- 3E8-11** Synthesis and Applications of Various Chiral Selenazoline Ligands (Fac. Eng., Gifu Univ.) ○FUKUNAGA, Tomoki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 3E8-12** Synthetic application of α -(trimethylsilyl)vinylphosphonates. (Fac. Eng., Kindai Univ.) ○HATTORI, Takuya; OKADA, Yoshiharu; NOMURA, Masato
- 3E8-13** Development of novel synthesis of β -Lactone promoted by *N,N*-4-dimethylaminopyridine *N*-oxide (DMAPO) (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○HONGO, Kohei; SHIMOWAKI, Keita; MANDAI, Hiroki; SUGA, Seiji

Chair: YORIMITSU, Hideki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3E8-15, 3E8-17, 3E8-19, 3E8-20)
- 3E8-15[#]** Salt-free Generation of Silyl Enol Ethers from α -Halocarbonyl Derivatives by Organosilicon Reducing Agents for Synthesizing α -Functionalyzed Carbonyl Derivatives (Grad. Sch. Eng. Sci., Osaka Univ.) ○REJ, Supriya; PRAMANIK, Suman; TSURUGI, Hayato; MASHIMA, Kazushi
- 3E8-17[#]** Development of Novel LASC-SWNT Catalysts and Their Applications Toward Asymmetric Reactions in Water. (Grad. Sch. Sci., The Univ. of Tokyo) ○XU, Pengyu; KITANOSONO, Taku; KOBAYASHI, Shu
- 3E8-19[#]** Oxidation of active methylene compounds in water (Grad. Sch. Sci., The Univ. of Tokyo) ○KITANOSONO, Taku; KOBAYASHI, Shu

- 3E8-20** Palladium-catalyzed C-H functionalization at sp^3 carbon of 3-methylindole in water. (Grad. Sch. Sci., The Univ. of Tokyo) ○MIYO, Masumi; KITANOSONO, Taku; KOBAYASHI, Shu

Saturday, March 18, PM

Chair: SASAMORI, Takahiro (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3E8-28, 3E8-29, 3E8-30, 3E8-31, 3E8-32)
- 3E8-28** Approach to seleno-aroma π belt (Grad. Sch. Sci. Eng., Kindai Univ.) ○PAN, Yang; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 3E8-29** Synthesis and Property of Polytellurophene Nanotubes (Grad. Sch. Sci. Eng., Kindai Univ.) ○AKAMATSU, Fumiya; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 3E8-30** Synthesis and Reaction of Hexaaryltellurium using tetraphenyltellurium dication (Coll. Sci., Rikkyo Univ.) ○KOBAYASHI, Sho; MINOURA, Mao
- 3E8-31** Studies on the stability and reactivity of tellurols (Grad. Sch. Eng., Kyoto Univ.) ○SEKI, Toyomitsu; LU, Yangtian; YU, Mengmeng; NAKAMURA, Yasuyuki; YAMAGO, Shigeru
- 3E8-32[#]** One pot synthesis of dendritic hyperbranched polymers by using vinyl tellurides (ICR, Kyoto Univ.) ○LU, Yangtian; YAMAGO, Shigeru

Chair: HATAKEYAMA, Takuji (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3E8-35, 3E8-37, 3E8-39)
- 3E8-35[#]** Cyclotrimerization of Arylacetylenes Using a Germanium Catalyst and the Reaction Mechanism (ICR, Kyoto Univ.; FIFC, Kyoto Univ.) ○SUGAHARA, Tomohiro; SASAMORI, Takahiro; GUO, Jing-dong; NAGASE, Shigeru; TOKITOH, Norihiro
- 3E8-37[#]** Structure and Property of a Bis(ferrocenyl)germylene (ICR, Kyoto Univ.; FIFC, Kyoto Univ.) ○SUZUKI, Yuku; SASAMORI, Takahiro; GUO, Jing-dong; NAGASE, Shigeru; TOKITOH, Norihiro
- 3E8-39[#]** Synthesis and Behaviors of a Novel Low Coordinate Boron Compound and Diboranes with Bulky Amino Groups (Grad. Sch. Sci., Hiroshima Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○MORISAKO, Shogo; SHANG, Rong; YAMAMOTO, Yohsuke; MATSUI, Hiroshi; NAKANO, Masayoshi

Chair: YAMASHITA, Makoto (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3E8-42, 3E8-44, 3E8-46, 3E8-47)
- 3E8-42[#]** Synthesis and Reaction of Ferrocenylstannylenes (ICR, Kyoto Univ.) ○MAJHI, Pares; SASAMORI, Takahiro; TOKITOH, Norihiro
- 3E8-44[#]** Synthesis and Reaction of Reactive Silicon Species Bearing Triptycylmethyl Framework (Coll. Sci., Rikkyo Univ.) ○YUKIMOTO, Mariko; MINOURA, Mao
- 3E8-46** Synthesis and Reaction of Silane Derivatives Bearing 9-Triptycylmethyl Group and Bulky Aryl Group. (Coll. Sci., Rikkyo Univ.) ○SHINOZAWA, Miho; YUKIMOTO, Mariko; MINOURA, Mao
- 3E8-47** Synthesis and Physical Properties of Triangulenes Containing Group 14 Elements at the Center (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○GOTO, Hajime; KINOSHITA, Keisuke; NAKATSUKA, Soichiro; HATAKEYAMA, Takuji

Room F1

Fourth Building Independence Wing
D403

Organic Chemistry -Reaction and Synthesis- Aromatic Compounds

Thursday, March 16, AM

Chair: SHOJI, Yoshiaki (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1F1-01, 1F1-02, 1F1-03, 1F1-04, 1F1-05, 1F1-06)
- 1F1-01** Modular Synthesis of Unsymmetric Anthracenes Using Oxadiazinones (IBB, Tokyo Med. and Dental Univ.) ○CHEN, Shengnan; MEGURO, Tomohiro; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 1F1-02** Facile Synthesis of Various Diaryl Sulfoxides via the Reaction Between Arynes and Aryl Methyl Sulfides (IBB, Tokyo Med. and Dental Univ.) ○NAKAJIMA, Hana; UCHIDA, Keisuke; HAZAMA, Yuki; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 1F1-03** Direct Oxythiolation of Arynes via Reaction with Diaryl Sulfoxides and Migratory *O*-Arylation (IBB, Tokyo Med. and Dental Univ.) ○MATSUZAWA, Tsubasa; UCHIDA, Keisuke; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 1F1-04** Unsymmetrical Diarylketones Synthesis from Aldehydes and Arylboronates Using the Pd/Ir Dual Catalyst System (Grad. Sch. Eng., Tokyo Denki Univ.) ○AKIYAMA, Ryo; YAMAMOTO, Tetsuya; SHINOZAKI, Hiraku
- 1F1-05** Addition Reaction of Arylboronic Acid to Hemiacetals Using

- KITAMURA, Kei; NAGAI, Yusaku; ZHANG, Keshu; HAMURA, Toshiyuki
- 2F1-30** Study on the Syntheses of Functionalized Pentacene and Hexacene Derivatives by Using Isophthofurans as a Reactive Platform (Sch. Sci. Tech., Kwasei Gakuin Univ.) ○KUDO, Ryoji; KITAMURA, Kei; HAMURA, Toshiyuki
- 2F1-31** Synthesis of distorted triptycene using ynoate/benzyne triple cycloaddition (IMCE, Kyushu Univ.) ○YOSHINAGA, Tatsuro; IWATA, Takayuki; MATSUMOTO, Kenji; SHINDO, Mitsuru
- 2F1-32[#]** Importance of a Fluorine Substituent for the Preparation of meta- and para-Pentafluorosulfanyl-Substituted Pyridines (Department of Nanopharmaceutical Sciences) KOSOBOKOV, Mikhail; ○CUI, Benqiang; MATSUZAKI, Kohei; TOKUNAGA, Etsuko; SHIBATA, Norio
- 2F1-33** Oxidative Cleavage of Olefins by Metal Nitrates (Grad. Sch. Eng., Osaka Univ.) ○FUJIMOTO, Hayato; MORIUCHI, Toshiyuki; AMAYA, Toru

Chair: SHINDO, Mitsuru (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2F1-35, 2F1-36, 2F1-37, 2F1-39)
- 2F1-35** Efficient Synthetic Route to 1,3-Diarylisobenzoheteroles Based on the One-pot Preparation of Isobenzofurans (Sch. Sci. Tech., Kwasei Gakuin Univ.) ○KATAOKA, Hiroki; TOZAWA, Hitoshi; HAMURA, Toshiyuki
- 2F1-36** Synthesis of water-soluble isobenzoheteroles (Sch. Sci. Tech., Kwasei Gakuin Univ.) ○TOZAWA, Hitoshi; KITAMURA, Kei; HAMURA, Toshiyuki
- 2F1-37[#]** Programmed Synthesis of Multiply Arylated Aromatics (Sch. Advanced Sci. Eng., Waseda Univ.; Grad. Sch. Sci., Nagoya Univ.) ○SUZUKI, Shin; ITAMI, Kenichiro; YAMAGUCHI, Junichiro
- 2F1-39[#]** Polyaniline-induced arylation with arenediazonium salts derived from arylamines (Grad. Sch. Eng., Osaka Univ.) ○HATA, Dai; MORIUCHI, Toshiyuki; HIRAO, Toshikazu; AMAYA, Toru

Chair: AMAYA, Toru (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2F1-42, 2F1-44, 2F1-46, 2F1-47)
- 2F1-42[#]** An Efficient Synthesis of Substituted Pentacenes via Successive Cycloadditions of Isobenzofurans and Its Application to Organic Field Effect Transistors (Sch. Sci. Tech., Kwasei Gakuin Univ.) ○EDA, Shohei; HAMURA, Toshiyuki
- 2F1-44[#]** Cp*Co(III)-catalyzed C-H Bond Functionalization Reactions (Grad. Sch. Pharm., Hokkaido Univ.) ○YOSHINO, Tatsuhiko; BUNNO, Youka; TANAKA, Ryo; IKEMOTO, Hideya; SUZUKI, Yudai; SUN, Bo; SAKATA, Ken; KANAI, Motomu; MATSUNAGA, Shigeki
- 2F1-46** Bronsted Acid-Catalyzed Intramolecular Hydroarylation of Unactivated Alkynes: Efficient Synthesis of Phenacenes (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○TAKAHASHI, Ikko; FUJITA, Takeshi; ICHIKAWA, Junji
- 2F1-47** Acid-Promoted Heteroaromatic C-F Bond Activation: Synthesis of Fused Heterocyclic Compounds (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○FUKUDA, Takuya; SUZUKI, Naoto; FUJITA, Takeshi; ICHIKAWA, Junji

Saturday, March 18, AM

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

- * 8:50-9:00: interval for laptop PC connection.(3F1-01, 3F1-02, 3F1-03, 3F1-04, 3F1-05, 3F1-06)
- 3F1-01** Synthesis of chlorin-*e*₆ methyl esters and their physical properties (Coll. Life Sci., Ritsumeikan Univ.) TAMIAMI, Hitoshi; ○NAGANO, Yasunobu; OGASAWARA, Shin
- 3F1-02[#]** Synthesis of chlorophyll-*a* derivatives possessing the 3²-carboxy and 17²-carbonyl groups as candidates of DSSC's photosensitizers (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○CUI, Yuxiao; OGASAWARA, Shin; TAMIAMI, Hitoshi
- 3F1-03** Peripheral Functionalization of 5,15-Diazaporphyrins using Cross-coupling Reactions (Fac. Sci., Niigata Univ.; Grad. Sch. Sci. and Technol., Niigata Univ.) ○SUGAI, Takuma; OMOMO, Satoshi; MATANO, Yoshihiro
- 3F1-04** Synthesis and Properties of Novel Metal Complexes of 5,10,15,20-Tetraaryl-5,15-diazaporphyrins (Fac. Sci., Niigata Univ.; Grad. Sch. Sci. and Technol., Niigata Univ.; Center for Inst. Anal., Niigata Univ.; Grad. Sch. Eng., Osaka Univ.) ○SUDOH, Keisuke; SATOH, Takaharu; FURUKAWA, Ko; AMAYA, Toru; MATANO, Yoshihiro
- 3F1-05[#]** A facile synthesis of novel expanded porphyrinoids: BisNi(II) complexes of dicyanovinylene-di(meso-aryl)dipyrromethene (Sch. Eng., Nagoya Univ.) ○FAIALAGA, Nathan; ITO, Satoru; SHINOKUBO, Hiroshi; SHIN, Jiyoung
- 3F1-06** Synthesis of Propyliums by Borane Treatment of Cyclic Conjugated Trienes and Their Luminescent Properties (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○TOMURA, Fumiya; FUJITA, Takeshi; ICHIKAWA, Junji

Chair: ARAE, Sachie (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3F1-08, 3F1-09, 3F1-10,

3F1-12, 3F1-13)

- 3F1-08** Effect of Organic Solvents on the Inverse Thermoresponses of An Ethynylhelicene Oligomer with Tri(Ethylene Glycol) Termini in Aqueous Media (Grad. Sch. Pharm. Sci., Tohoku Univ.) SAITO, Nozomi; ○KOBAYASHI, Higashi; YAMAGUCHI, Masahiko
- 3F1-09** Effect of the position of tri(ethylene glycol) moieties on the aggregation of ethynylhelicene oligomers in aqueous media (Grad. Sch. Pharm. Sci., Tohoku Univ.) SAITO, Nozomi; ○TSUCHIYA, Shunpei; YAMAGUCHI, Masahiko
- 3F1-10[#]** Synthesis, aggregation, anisotropic self-assembly, and control of dynamic properties of optically active ethynylhelicene oligomers (Grad. Sch. Pharm. Sci., Tohoku Univ.) ○SAITO, Nozomi; YAMAGUCHI, Masahiko
- 3F1-12** Synthesis and Optical Properties of Functionalized Chiral [5]Helicene Derivatives. (Grad. Sch. Eng., Tokyo Denki Univ.) ○HIRAMOTO, Tetsuro; MIYASAKA, Makoto
- 3F1-13[#]** Optical resolution of helical quinone derivatives through diastereomeric process (Grad. Sch. Eng., Utsunomiya Univ.) ○SHAHABUDDIN, Mohammad; KIMURA, Takao; KARIKOMI, Michinori

Chair: FUJITA, Takeshi (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(3F1-15, 3F1-16, 3F1-17, 3F1-18, 3F1-19)
- 3F1-15** Mechanical Stimulation Induces Chiral Symmetry Breaking by Racemic Oxymethylenehelicene Oligomers (Grad. Sch. Pharm. Sci., Tohoku Univ.) ○SAWATO, Tsukasa; SAITO, Nozomi; YAMAGUCHI, Masahiko
- 3F1-16** Chemical swing of pseudoenantiomeric aminomethylenehelicene oligomers in solution (Grad. Sch. Pharm. Sci., Tohoku Univ.) ○KONDO, Yutaro; SAITO, Nozomi; YAMAGUCHI, Masahiko
- 3F1-17** Synthetic Studies of Fused Heterohelices by Cyclodehydrogenation (Fac. Adv. Sci. Tech., Kumamoto Univ.; Grad. Sch. Sci. & Tech., Kumamoto Univ.) ARAE, Sachie; ○KOBAYASHI, Ryo; NAKANO, Shotaro; IRIE, Ryo
- 3F1-18** Synthesis and Properties of 10-Mesityl-1,8-diphenylanthracene Dimer (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○SANO, Hiroto; IYODA, Masahiko; OTANI, Hiroyuki
- 3F1-19** Synthesis and properties of giant macrocyclic 4',5'-diethyl-4,4''-diethynyl-*o*-terphenyl oligomers (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○SAKO, Ikumi; IYODA, Masahiko; OTANI, Hiroyuki

Room F2

Fourth Building Independence Wing
D406

Organic Chemistry -Reaction and Synthesis- Heterocyclic Compounds

Thursday, March 16, AM

Chair: SOETA, Takahiro (10 : 20~11 : 20)

- * 10:10-10:20: interval for laptop PC connection.(1F2-09, 1F2-10, 1F2-11, 1F2-12, 1F2-13, 1F2-14)
- 1F2-09** Design, Synthesis and Biological Evaluation of Benzofuroprazole and Pyrazolofuroprazines as Novel HIF Inhibitors (Lab. Chem. Life Sci., Tokyo Tech.) ○INABA, Megumi; MINEGISHI, Hidemitsu; FUSE, Shinichiro; SATO, Shinichi; NAKAMURA, Hiroyuki
- 1F2-10** Development of a short step synthetic route for indenopyrazolones and their evaluation of biological activity (Lab. Chem. Life Sci., Tokyo Tech.) ○SUZUKI, Kensuke; FUSE, Shinichiro; SATO, Shinichi; NAKAMURA, Hiroyuki
- 1F2-11** Development of Pd-catalyzed dehydrogenative cyclization for synthesis of multi-ring-fused ortho-quinones (IIR, Tokyo Tech.) ○ISHII, Shuichi; SATO, Shinichi; FUSE, Shinichiro; NAKANO, Hirofumi; NAKAMURA, Hiroyuki
- 1F2-12** Synthesis and Properties of Multi-substituted Imidazo[1,5-*a*]pyridines (Fac. Eng., Gifu Univ.) ○IMAI, Masahiko; YOSHIHARA, Mari; SAKAI, Yuusuke; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 1F2-13** Synthesis of novel hybrid amine containing a piperazine core and evaluation of its CO₂ absorption/stripping efficiency (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○YUBUCHI, Takeru; KANOMATA, Nobuhiro; SATO, Hiroshi; YAMANAKA, Yasuro
- 1F2-14** Synthesis and properties of 1-phosphaazulene derivatives (Fac. Sci. Technol., TUS) ○OKAMOTO, Kohei; TSUKADA, Satoru; GUNJI, Takahiro

Chair: FUSE, Shinichiro (11 : 30~12 : 30)

- * 11:20-11:30: interval for laptop PC connection.(1F2-16, 1F2-17, 1F2-18, 1F2-19, 1F2-20)
- 1F2-16[#]** Development of Novel Spiro-type Chiral Ligands Bearing Pyrazole Donors (ISIR, Osaka Univ.) ○SHIGENOBU, Masashi; TAKENAKA, Kazuhiro; SASAI, Hiroaki

- 1F2-17** Synthesis of 4,5-Difluoro-substituted *N*-Heterocyclic Carbene Precursors (Sch. Eng., Osaka Univ.) ○ANDO, Kota; KIKUSHIMA, Kotaro; OHASHI, Masato; OGOSHI, Sensuke
- 1F2-18** Development of Sterically Fixed Phytochrome Chromophores Anchored to meso-Position toward Investigation of their Photoisomerization (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○OHASHI, Nobuhiko; KOBAYASHI, Toshiharu; SOETA, Takahiro; UKAJI, Yutaka
- 1F2-19** Introduction of *N*-containing heterocycles to the α positions of BODIPY by nucleophilic substitution reactions (Grad. Sch. Sci. and Technol., Niigata Univ.; Fac. Sci., Niigata Univ.) ○SATO, Takaharu; MATANO, Yoshihiro
- 1F2-20**[#] A Novel Self-Replicating Reaction For Phthalocyanine Syntheses (RIKEN CEMS; Grad. Sch. Eng., The Univ. of Tokyo) ○IMAYOSHI, Ayumi; CHEN, Zhen; MIYAJIMA, Daigo; AIDA, Takuzo

Thursday, March 16, PM

Chair: MITSUDO, Koichi (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(1F2-29, 1F2-30, 1F2-31, 1F2-32, 1F2-33, 1F2-34)
- 1F2-29** Synthesis of π -extended porphyrins with alkene/alkyne unit (Fac. Eng., Utsunomiya Univ.) ○OGAWA, Takafumi; TOBATA, Marina; ITO, Syunpei; OBA, Toru; ITO, Satoshi
- 1F2-30** Synthesis of Benzo-BODIPYs with absorption of near-IR (Grad. Sch. Eng., Utsunomiya Univ.) ○KAWAMATA, Yuki; TAKAHASHI, Kai; OBA, Toru; ITO, Satoshi
- 1F2-31** Syntheses and physical properties of chlorophylls linked with a chalcone moiety (Coll. Life Sci., Ritsumeikan Univ.) TAMIYAKI, Hitoshi; ○OHASHI, Kota; KINOSHITA, Yusuke
- 1F2-32** Synthesis and reactivity of chlorophyll derivatives bearing a diene functional group at the 3-position (Coll. Life Sci., Ritsumeikan Univ.) TAMIYAKI, Hitoshi; ○FUNAYAMA, Naoya
- 1F2-33** Synthesis and physical properties of chlorophyll derivatives possessing a thiol group at the C3 position (Graduate School of Life Sciences, Ritsumeikan University) ○KIM, Kifa; TAMIYAKI, Hitoshi
- 1F2-34** Nucleophilic *S*-endo-*trig* Cyclization of Difluorohomoallylic Compounds: Synthesis of Fluorinated Dihydroheteroles. (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) HUIJITA, Takeshi; ○MORIOKA, Ryuutarou; ARITA, Tomohiro; ICHIKAWA, Junji

Chair: FUJITA, Takeshi (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(1F2-36, 1F2-37, 1F2-38, 1F2-39, 1F2-40, 1F2-41)
- 1F2-36** Oxidation of pyrrolo[1,2-*b*][1,2]benzothiazine derivatives (IRC3, AIST; Grad. Sch. Fac. Sci. Technol., TUS) ○MASUDA, Kotaro; TANAKA, Shinji; ANDO, Wataru; SAKAI, Norio; SHIMIZU, Masao
- 1F2-37** Synthesis of Dithienofuran Derivatives via S_NAr Type Etherification and Subsequent Dehydrogenative Cyclization (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KURIMOTO, Yuji; MITSUDO, Koichi; SUGA, Seiji
- 1F2-38** A Short-Step Synthesis of Six-Membered Ketosulfones through Amine-Induced Ring Closure of Alkynyl Propargyl Sulfones (Grad. Sch. Eng., Iwate Univ.) ○SHIMADA, Kazuaki; KAMOTO, Hironobu; SHINGO, Kasumi; KORENAGA, Toshinobu
- 1F2-39** Synthesis of Five-Membered Heteroaromatic Compounds through Oxidative Ring Closure of 1,3-Thiazia-1,3-butadienes (Grad. Sch. Eng., Iwate Univ.) ○SHIMADA, Kazuaki; ISOGAMI, Megumi; NISHINOMIYA, Rei; KORENAGA, Toshinobu
- 1F2-40** Aerobic Oxidative Thiazazole Ring Formation of Tosylhydrazones and Sulfur with Flavin and Iodine Catalysts (Grad. Sch. Fac. Sci. Eng., Shimane Univ.) ○ISHIKAWA, Tatsuro; IIDA, Hiroki
- 1F2-41**[#] Synthetic Study of sorazolon E2 Using Chiral Vanadium Catalyst (ISIR, Osaka Univ.) ○ICHINOSE, Kazuya; SAKO, Makoto; TAKIZAWA, Shinobu; SASAI, Hiroaki

Chair: HARAGUCHI, Ryosuke (16 : 00~17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(1F2-43, 1F2-44, 1F2-45, 1F2-46, 1F2-47, 1F2-48)
- 1F2-43**[#] Synthetic Study of Eleuthoside A; Application of Rh-Catalyzed Intramolecular Cyclization of Diazonaphthoquinone (Applied Chemistry, Dept. Pharm. Org. Chem., Fac. Pharm., Mans. Univ. Egypt) ○OTHMAN, Dina I. A.; OHTSUKA, Kota; SELIM, Khalid B.; EL SAYED, Magda A.; TANTAWY, Atif S.; OKAUCHI, Tatsuo; KITAMURA, Mitsuru
- 1F2-44**[#] Enantioselective Synthesis of γ -Lactams via Palladium-Catalyzed Carbonylation of Homoallylic Amine Derivatives (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○PHAN, Nga Hang Thi; SUGA, Takuya; SOETA, Takahiro; UKAJI, Yutaka
- 1F2-45**[#] Enantioselective Diels-Alder Reaction Using Chiral Holmium Complex, and the Construction of Nitrogen-Containing Polycyclic Skeleton (Grad. Sch. Pharm. Sci., Chiba Univ.; Mol. Chir. Res. Cen., Chiba Univ.) ○NAKASHIMA, Saki; YAMADA, Wataru; MORIKAWA, Takahiro; HARADA, Shinji; NISHIDA, Atsushi
- 1F2-46**[#] Facile synthesis of spirooxindoles via an enantioselective organocatalyzed sequential reaction of oxindole derivatives with ynones (ISIR, Osaka Univ.) ○KUSABA, Miki; KISHI, Kenta; TAKIZAWA, Shinobu; JIANFEI, Bai; SASAI, Hiroaki

- 1F2-47**[#] Enantioselective Synthesis of Bicyclic Pyrrolidine Derivatives via Sequential Organo- and Pd-Catalysis (ISIR, Osaka Univ.) ○MOHON CHAKI, Bijan; BAI, Jianfei; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 1F2-48** Development of novel optically active imidazole-amino acid ligand for copper-catalyzed *exo*-selective asymmetric [3+2] cycloaddition of iminoesters with nitroalkenes (Grad. Sch. Sci., Chiba Univ.) ○SHIMADA, Takuya; TOKUMITSU, Chihiro; FUJIWARA, Ayaka; ARAI, Takayoshi

Chair: TAKIZAWA, Shinobu (17 : 10~18 : 00)

- * 17:00-17:10: interval for laptop PC connection.(1F2-50, 1F2-52, 1F2-53, 1F2-54)
- 1F2-50**[#] Catalytic and Enantioselective Nazarov Cyclization through a Chiral Dinuclear Nickel Complex (Grad. Sch. Pharm. Sci., Chiba Univ.; Mol. Chir. Res. Cen., Chiba Univ.) ○HARADA, Shinji; TAKEDA, Takuya; NISHIDA, Atsushi
- 1F2-52** Highly-stereoselective synthesis of novel bis(indolyl)methane compounds using chiral bis(imidazolidine)-nickel catalyst (Grad. Sch. Sci., Chiba Univ.) ○TOSA, Takuya; ARAI, Takayoshi
- 1F2-53** Chiral silver and copper complexes catalyzed asymmetric cycloaddition of azomethine ylides to thionaphthen sulfones. (Grad. Sch. Sci. Eng., Chuo Univ.) ○HARADA, Masato; HARAGUCHI, Ryosuke; FUKUZAWA, Shin-ichi
- 1F2-54** The development of asymmetric cross-benzoin condensation catalyzed by *N*-Heterocyclic carbene bearing a pyridine moiety (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○MIZUNO, So; SOETA, Takahiro; UKAJI, Yutaka

Friday, March 17, AM

Chair: KANYIVA, Stephen-kyalo (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2F2-01, 2F2-02, 2F2-03, 2F2-04, 2F2-05, 2F2-06)
- 2F2-01** Synthesis of *N*-Heterocyclic Carbene with Sulfonyl Substituent on *N*-Aryl Group (Grad. Sch. Eng., Osaka Univ.) ○ISHIMOTO, Kazuya; KUMAR, Ravindra; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke
- 2F2-02** Development of New Synthetic Route to 1,4,5-Trisubstituted Imidazoles via NHC-Catalyzed Reaction (Grad. Sch. of Sci. Technol., Sophia Univ.) ○TAKASHIMA, Ryo; SUZUKI, Yumiko
- 2F2-03** Synthesis of 1,2,4-Triazoles by 1,3-Dipolar Cycloaddition Reaction of Nitrile Imines with Nitriles (Grad. Sch. Eng., Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○HAGIWARA, Kouhei; NAKAMURO, Takayuki; MIURA, Tomoya; MURAKAMI, Masahiro
- 2F2-04** Preparation of Nitrogen-containing π -Conjugated Compounds via Nucleophilic Addition to Haloalkynes Followed by Cyclization Involving C-H Activation (Sch. Life Sci. Tech., Tokyo Tech.) HATA, Takeshi; ○KANAI, Yuki; SHIGETA, Masayuki; URABE, Hirokazu
- 2F2-05** Preparation of Azole-containing π -Conjugated Compounds via Nucleophilic Addition to Haloalkynes (Sch. Life Sci. Tech., Tokyo Tech.) HATA, Takeshi; ○HAYASHI, Yoshiki; SHIGETA, Masayuki; URABE, Hirokazu
- 2F2-06** Synthesis of Ring-fused Heterocyclic Compounds via Rh-catalyzed Intramolecular Hydroarylation (Sch. Life Sci. Tech., Tokyo Tech.) ○HATA, Takeshi; TAKAHASHI, Naoto; SHIGETA, Masayuki; URABE, Hirokazu

Chair: HATA, Takeshi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2F2-08, 2F2-09, 2F2-10, 2F2-11, 2F2-12, 2F2-13)
- 2F2-08** Synthesis of Indolizine Derivatives Utilizing [1,2]-Phospha-Brook Rearrangement (Grad. Sch. Sci., Tohoku Univ.) ○KODA, Kazumi; KAMATA, Yuji; KONDOH, Azusa; TERADA, Masahiro
- 2F2-09** Non-catalytic synthesis of indole derivative in subcritical water (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○YASUE, Kazuki; HIRASHITA, Tsunehisa; ARAKI, Shuki
- 2F2-10** Aromatic C-N bond formation using borane complex of hydroxamic acid with hypervalent iodine reagent. (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○MATUMOTO, Makoto; ISHIKAWA, Hayato
- 2F2-11** Synthesis of hydrocarbazole derivatives from diarylamines through oxidative cyclization using hypervalent iodine reagent (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○ODAGI, Minami; HOSOYA, Keisuke; NAGASAWA, Kazuo
- 2F2-12** Synthetic Study of α -Carbolines using the Synthesis of 2-Aminopyridines (Grad. Sch. Eng., Mie Univ.) ○SHIMADA, Satoshi; HACHIYA, Iwao; SHIMIZU, Makoto
- 2F2-13** Synthesis of Helical Phenanthroline Derivatives (Fac. Sci., TUS) ○YAMAZAKI, Yukari; MUTOH, Yuichiro; SAITO, Shinichi

Chair: MATSUBARA, Ryosuke (11 : 20~12 : 30)

- * 11:10-11:20: interval for laptop PC connection.(2F2-15, 2F2-16, 2F2-17, 2F2-18, 2F2-19, 2F2-20, 2F2-21)
- 2F2-15** Metal-Free Synthesis of Quinoxalones Using Hypervalent Iodine *N*-H/C-H Coupling (Sch. Advanced Sci. Eng., Waseda Univ.) ○HORIUCHI, Masashi; KANYIVA, Kyalo Stephen; SHIBATA, Takanori

- 2F2-16** Synthesis of Dihydrooxazine Derivative by the Reaction of α, β -Unsaturated Nitron with Ylide (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) OHASEGAWA, Megumi; SUGA, Takuya; SOETA, Takahiro; UKAJI, Yutaka
- 2F2-17** Synthesis of Multiply Arylated Pyridines (Sch. Advanced Sci. Eng., Waseda Univ.) OSAKO, Takashi; HAYASHI, Wakana; SUZUKI, Shin; AMAIKE, Kazuma; ITAMI, Kenichiro; MUTO, Kei; YAMAGUCHI, Junichiro
- 2F2-18** Synthesis of Polysubstituted Nicotines Using FeCl₃-Mediated Condensation (Sch. Env. Sci. Eng., KUT) OHORIKAWA, Yurie; HIRAI, Sho; ASAHARA, Haruyasu; NISHIWAKI, Nagatoshi
- 2F2-19** Synthesis of Piperidines by Cyclization Reactions of Amides of Ethenetri-carboxylate bearing Amino groups via Intramolecular Hydride Transfer (Nara Univ. of Educ.; NAIST) OYAMAZAKI, Shoko; NAITO, Taku; TATSUMI, Taiki; KAKIUCHI, Kiyomi
- 2F2-20** Synthesis of [10]parapyrazinophanes via Copper-mediated Glaser coupling (Sch. Advanced Sci. Eng., Waseda Univ.) KANOMATA, Nobuhiro; OKAKINUMA, Masaki; YAMAUCHI, Syu
- 2F2-21** Efficient Synthesis of Azahelicenes by Consecutive N-H/C-H Coupling and Their Characterization (Sch. Advanced Sci. Eng., Waseda Univ.) OTSUYUKI, Ami; OTANI, Takashi; IWACHI, Taiki; SOMEYA, Satoshi; TATENO, Kotaro; KAWAI, Hidetoshi; SAITO, Takao; KANYIVA, Kyallo Stephen; SHIBATA, Takanori

Friday, March 17, PM

Chair: OTANI, Takashi (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(2F2-29, 2F2-30, 2F2-31, 2F2-32, 2F2-34)
- 2F2-29** Development of synthetic method for alkynylfuroxan and derivatization of them (Grad. Sch. Sci., Kobe Univ.) OEGUCHI, Shuhei; ANDO, Akihiro; HAYASHI, Masahiko; MATSUBARA, Ryosuke
- 2F2-30** Development of the efficient synthesis of cyanofuroxan by direct cyanation (Grad. Sch. Sci., Kobe Univ.) OANDO, Akihiro; HAYASHI, Masahiko; MATSUBARA, Ryosuke
- 2F2-31** Development of synthetic method for furoxan having a powerful leaving group (Sch. Sci., Kobe Univ.) OKATSURAGI, Yuki; ANDO, Akihiro; EGUCHI, Shuhei; HAYASHI, Masahiko; MATSUBARA, Ryosuke
- 2F2-32**** Generation of 4-Isoxazolyl Anion Species and Its application for Synthesis of Multifunctionalized Isoxazoles (Lab. Chem. Life Sci., Tokyo Tech.) OMORITA, Taiki; FUSE, Shinichiro; NAKAMURA, Hiroyuki
- 2F2-34** Gold-catalyzed Intramolecular Hydroarylation of 4-(Propargylamino) isoxazoles (IIR, Tokyo Tech.) OFUKUHARA, Shintaro; MORITA, Taiki; FUSE, Shinichiro; NAKAMURA, Hiroyuki

Chair: SASAKI, Ikuo (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(2F2-36, 2F2-37, 2F2-38, 2F2-39, 2F2-40, 2F2-41)
- 2F2-36** 1,3-dipolar cycloaddition of carbonylnitrile oxide with imines (Sch. Env. Sci. Eng., KUT) OKONDO, Minato; ASAHARA, Haruyasu; NISHIWAKI, Nagatoshi
- 2F2-37** Unprecedented nucleophile-promoted sulfur-shift reactions on azepinyrroles (Fac. Edu., Gifu Univ.) OGO, Takashi; YOSHIMATSU, Mitsuhiro
- 2F2-38** Copper-Catalyzed Aza-Henry Reaction of Nitromethane to Nitriles (Faculty of Education, Gifu University) OKUWABARA, Jun; YOSHIMATSU, Mitsuhiro
- 2F2-39** Catalytic Synthesis of Isoxazoles from Propargyl Alcohols and N-Hydroxysulfonamides (Faculty of Education, Gifu University) OTODA, Takafumi; YOSHIMATSU, Mitsuhiro
- 2F2-40** Selective Mono-reduction of Pyrrole-2,5 and 2,4-Dicarboxylates (Fac. Eng., Kogakuin Univ.) OJUNPEI, Tsuda; OHNUKI, Satoshi; YASUI, Eiko; NAGUMO, Shinji
- 2F2-41** Preparation and Reaction of 1,3-Diaryltetrazolium-5-nitrenes (Grad Sch. Eng., Nagoya Inst. of Tech.) OTAKIMOTO, Kota; HIRASHITA, Tsunehisa; ARAKI, Shuki; MATSUKAWA, Yuta

Chair: NISHIWAKI, Nagatoshi (16 : 00~17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(2F2-43, 2F2-44, 2F2-45, 2F2-47, 2F2-48)
- 2F2-43** Substitution Reaction of Azido Group at the α -Position on the Side Chain of Pyrrole Derivatives and its Application to the Synthesis of Pyrrolopyrrolone Derivatives (Coll. Sci. Eng., Aoyama Gakuin Univ.) OMARUYAMA, Shun; SHIMADU, Morie; KISHII, Naomi; SASAKI, Ikuo; SUGIMURA, Hideyuki
- 2F2-44** New Synthetic Route to 1,2,3-Triazine Derivatives (Coll. Sci. Eng., Aoyama Gakuin Univ.) OTAKEUCHI, Reika; ICHIKAWA, Shiori; SASAKI, Ikuo; SUGIMURA, Hideyuki
- 2F2-45**** Phosphine-catalyzed umpolung tandem Michael addition of alkynyl ester (ISIR, Osaka Univ.) OKISHI, Kenta; TAKIZAWA, Shinobu; KUSABA, Miki; SASAI, Hiroaki
- 2F2-47*** Strategic Utilization of N-Phosphine Oxide-Substituted Imidazolylidenes for Transformation of Carbonyl Compounds (Grad. Sch. Eng., Osaka Univ.) OHAZRA, Sunit; HOSHIMOTO, Yoichi; ASADA, Takahiro; OHASHI, Masato; OGOSHI, Sensuke

- 2F2-48** Reaction of Lewis Acids with N-Phosphine Imide Substituted Imidazolylidenes (Grad. Sch. Eng., Osaka Univ.) OHINOGAMI, Takaya; HAZRA, Sunit; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke

Saturday, March 18, AM

Chair: YASUI, Eiko (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3F2-01, 3F2-02, 3F2-03, 3F2-04, 3F2-05)
- 3F2-01** Synthesis of heteroacenes via SnCl₂ catalyzed Friedel-Crafts type reaction (Sci. Tec., Sophia Univ.) OTSUKAMOTO, Kadzuo; MATSUZAKI, Masaki; TAKEOKA, Yuki; RIKUKAWA, Masahiro; MASUYAMA, Yoshiro; SUZUKI, Noriyuki
- 3F2-02** Chemoselective Onium Ylide Formation of 1,3-Oxathiolanes (Kobe City Coll. Technol.) OFUJII, Ikuya; KOIZUMI, Takuya
- 3F2-03** Molecular Transformation Using Imino Carbenoid (Kobe City Coll. Technol.) OYABUUCHI, Yuto; KOIZUMI, Takuya
- 3F2-04** Solvent-free benzoin and Stetter reactions with a small amount of N-Heterocyclic Carbene organocatalyst (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) OSHIRATORI, Sho; NANJO, Yoshiko; MAEDA, Chihiro; TAKAISHI, Kazuto; EMA, Tadashi
- 3F2-05*** [6+1] Cycloaddition Reaction of 2-Cyano-1-propargylindoles with Reformatsky Reagents (Fac. Edu., Gifu Univ.) YOROZU, Kohei; SAKAI, Yoko; OYOSHIMATSU, Mitsuhiro

Chair: YOSHIMATSU, Mitsuhiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3F2-08, 3F2-10, 3F2-11, 3F2-12, 3F2-13)
- 3F2-08*** Mechanistic Insight for the Stereochemical Results Observed in Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex (Fac. Eng., Kogakuin Univ.) OSAKATA, Yuki; YASUI, Eiko; NAGUMO, Shinji
- 3F2-10** Photoreaction of quinoline (Fac. Agr., Tokyo Univ. of Agri. and Technol.) OSHIMAZAKI, Kohei; HAGA, Naoki
- 3F2-11** Synthesis of Nitrogen-Containing Condensed Compounds through Domino Oxidation/Intramolecular Cyclization Reaction (Grad. Sch. Sci., Chiba Univ.; Grad. Sch. Sci. Tech., Tokushima Univ.) OUEDA, Junichi; OGASAWARA, Masamichi; YOSHIDA, Kazuhiro
- 3F2-12** Stereoselectivity in Sequential Intramolecular Cyclization of 3-Arylpropenylamides of Ethenetri-carboxylate (Nara Univ. of Educ.; Grad. Sch. Eng., Osaka Pref. Univ.) OSUGIURA, Hirotaka; YAMAZAKI, Shoko; OGAWA, Akiya
- 3F2-13** NHC-Catalyzed Direct Aroylation at 4-Position of Coumarin (Grad. Sch. of Sci. Technol., Sophia Univ.) OANDO, Asuka; NAKAGAWA, Mizuki; SUZUKI, Yumiko

Chair: EMA, Tadashi (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(3F2-15, 3F2-17, 3F2-18, 3F2-19)
- 3F2-15**** Direct Amino-halogenation and Aziridination of the 2-Quinolone Framework (Sch. Env. Sci. Eng., KUT) OHAO, Feiyue; ASAHARA, Haruyasu; NISHIWAKI, Nagatoshi
- 3F2-17** A Prins cyclization approach to 2,3-dialkylidenetetrahydrofurans (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OKATO, Mizuki; SAITO, Akio
- 3F2-18** Synthesis of 1,2-oxazine from Hydroxamic acid derivatives with Hypervalent Iodine Reagents (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OSHIMIZU, Hisato; YOSHIMURA, Akira; ZHDANKIN, Viktor V; SAITO, Akio
- 3F2-19** One-Step Synthesis of Iodinated Oxazoles using Iodine(III) Reagents (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OSUZUKI, Sho; SAITO, Akio

Saturday, March 18, PM

Chair: MINO, Takashi (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(3F2-34, 3F2-35, 3F2-37, 3F2-38, 3F2-39)
- 3F2-34*** Synthesis of Furan Derivatives Including exo- and endo-Double Bond Using Mn(III)-Based Oxidative Cyclization (Dept. Chem., Grad. Sch. Sci. & Tech., Kumamoto Univ.) OHUYNH, Thanh-truc; NISHINO, Hiroshi; NGUYEN, Van-ha
- 3F2-35**** Practical Synthetic Approach to Oxa-helicenes based on Intramolecular Iodoarylation of Linked Alkyne-Heterole Systems (Grad. Sch. Sci. & Tech., Kumamoto Univ.) OFURUSAWA, Masaki; MORI, Takaaki; ARAE, Sachie; IGAWA, Kazunobu; TOMOOKA, Katsuhiko; IRIE, Ryo
- 3F2-37*** Highly Site-selective Direct Functionalization of Oxa-helicenes (Grad. Sch. Sci. & Tech., Kumamoto Univ.; Fac. Adv. Sci. Tech., Kumamoto Univ.; IMCE, Kyushu Univ.) ARAE, Sachie; OMORI, Takaaki; UEDA, Daiki; IGAWA, Kazunobu; TOMOOKA, Katsuhiko; IRIE, Ryo
- 3F2-38** Chiral base-catalyzed highly enantioselective intramolecular hydroarylation of linked alkyne-indole systems (Grad. Sch. Sci. & Tech., Kumamoto Univ.; Fac. Adv. Sci. Tech., Kumamoto Univ.; IMCE, Kyushu Univ.) OBEPPU, Shota; ARAE, Sachie; IGAWA, Kazunobu; TOMOOKA,

Katsuhiko; IRIE, Ryo

- 3F2-39** Synthesis of naphthofurans by Palladium-catalyzed reaction of diazo-naphthoquinones and alkynes (Grad. Sch. Eng., KIT) ○TAKAHASHI, Shuhei; OKAUCHI, Tatsuo; KITAMURA, Mitsuru

Chair: KITAMURA, Mitsuru (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(3F2-41, 3F2-42, 3F2-43, 3F2-45, 3F2-46)
- 3F2-41** Application to 4-Aryloquinoline Synthesis via Intramolecular Diels-Alder Reaction of Furans (Grad. Sch. Eng., Tokyo Denki Univ.) ○ARIKAWA, Takashi; YAMAMOTO, Tetsuya; SHINOZAKI, Hiraku
- 3F2-42** Pd-Catalyzed [5+2] Cycloaddition of Oxidopyrylium Ylides with Alkenes: Substrate Scope of Dipolarophiles (Fac. Eng., Shinshu Univ.) ○IWAI, Taichi; SHIMIZU, Masahiro; TODA, Yasunori; SUGA, Hiroyuki
- 3F2-43**[#] Preparation and Transformations of 1-Allyloxy-2-ethynylbenzene Derivatives for Synthesis of Oxygen-containing Heterocyclic Compounds (Grad. Sch. Eng., Chiba Univ.) ○WATANABE, Kohei; MINO, Takashi; YOSHIDA, Yasushi; SAKAMOTO, Masami
- 3F2-45** Bronsted acid catalyzed [4+2] cycloaddition reaction of salicylaldehydes with poor reactive alkynes (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○SUKAKAWA, Mayumi; TANAKA, Kenta; SHIGEMATSU, Yosuke; HOSHINO, Yujiro; HONDA, Kiyoshi
- 3F2-46** Temperature induced selective synthesis of 4-alkoxy or 4-alkenyl substituted chromanes using [4+2] cycloaddition reaction with salicylaldehydes (Yokohama Natl. Univ. college of engineering science) TANAKA, Kenta; ○KISHIMOTO, Mami; HOSHINO, Yujiro; HONDA, Kiyoshi

Room F3

Fourth Building Independence Wing
D407

Organic Chemistry -Reaction and Synthesis- Organic Photochemistry

Friday, March 17, PM

Chair: YOSHIMI, Yasuhiro (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(2F3-25, 2F3-26, 2F3-27, 2F3-29, 2F3-30)
- 2F3-25** Development of the Organic Photocatalyst for Efficient Generation of Carbon-Centered Radical (Grad. Sch. Sci., Kobe Univ.) ○YABUTA, Tatsushi; HAYASHI, Masahiko; MATSUBARA, Ryosuke
- 2F3-26** Synthesis and Study on the optical properties of the carbazole derivatives with Aggregation Induced Emission (Sch. Sci., Kobe Univ.) ○KAIBA, Tomoaki; YABUTA, Tatsushi; HAYASHI, Masahiko; MATSUBARA, Ryosuke
- 2F3-27**[#] Aluminum Porphyrin Based Supramolecular Catalyst for Artificial Photosynthesis (Cent.Artificial Photosynthesis, TMU) ○MATHEW, Siby; KUTTASSERY, Fazalurahman; YAMAMOTO, Daisuke; ONUKI, Satomi; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo
- 2F3-29**[#] UTILIZATION OF TIN(IV) PORPHYRINS AS POTENTIAL CANDIDATES FOR WATER OXIDATION IN ARTIFICIAL PHOTOSYNTHESIS (Grad. Sch. Urban Environmental Sci., TMU) ○THOMAS, Arun; KUTTASSERY, Fazalurahman; REMELLO, Sebastian Nybin; MATHEW, Siby; DAISUKE, Yamamoto; YU, Nabetani; HIROSHI, Tachibana; HARUO, Inoue
- 2F3-30** Hybrid system of Rhenium complex / zinc porphyrin on *p*-type semiconductor for visible light induced CO₂ reduction (Grad. Sch. Urban Environmental Sci., TMU) ○YAMAMOTO, Daisuke; KOU, Youki; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo

Chair: MORI, Tadashi (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(2F3-32, 2F3-33, 2F3-34, 2F3-35, 2F3-36, 2F3-37)
- 2F3-32** Visible light-induced photocatalysis by palladium-loaded titanium oxide modified with organic molecules. (Fac. Sci. Eng., Kindai Univ.) ○NOZUE, Yuya; NAKAHODO, Tsukasa; KOMINAMI, Hiroshi; FUJIHARA, Hisashi
- 2F3-33**[#] Regio- and stereoselectivity in the photochemical [2+2] cycloaddition reaction of enones with the pyrrole derivatives (Grad. Sch. Sci., Hiroshima Univ.) ○XUE, Jianfei; ABE, Manabu
- 2F3-34** Intramolecular Photodimerization Reaction of 1-Vinylpyrene Derivatives (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○SEGAWA, Kenta; FURUYAMA, Taniyuki; SEGI, Masahito; MAEDA, Hajime
- 2F3-35** [2+2] Photocycloadditions between the Carbon-Nitrogen Double Bonds of *N*-Sulfonyl Imines and Carbon-Carbon Double Bonds (Dep. Chem., Sch. Sci., Kyoto Univ.) ○SAKAMOTO, Ryu; INADA, Tsubasa; MARUOKA, Keiji
- 2F3-36** Stereoselective Photodimerization Reaction of 3-Arylindenes (Grad. Sch. Eng., Chiba Univ.) ○TAMURA, Naoki; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami

- 2F3-37** Radical Addition of Esters by Using of Enzyme Reaction and Photoinduced Decarboxylation (Grad. Sch. Eng., Univ. of Fukui) ○IZUMI, Yuki; YOSHIMI, Yasuhiro

Chair: NISHIYAMA, Yasuhiro (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** Development of synthesis of lactones mediated by molecular iodine and visible light (Gifu Pharm. Univ.) ○MAEJIMA, Saki; YAMAGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika
- 2F3-40** Synthesis and Photoreaction of Terarylenes Having a Nitrogen Atom at the Reaction Center. (Grad. Sch. Mat. Sci., NAIST) ○MINAMIDE, Miho; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 2F3-41** Coupling Reaction of Vinyl Ether, Electron-poor Alkene, and Alcohol via Photoinduced Electron Transfer (Grad. Sch. Eng., Univ. of Fukui) ○TANAKA, Yosuke; YOSHIMI, Yasuhiro
- 2F3-42** Supramolecular asymmetric photochromogenesis of anthracene-2-carboxylate and anthracene-2,6-dicarboxylate mediated by human serum albumin (IMRAM, Tohoku Univ.) ○TOYOOKA, Sota; NISHIJIMA, Masaki; SAKAMOTO, Seiji; ARAKI, Yasuyuki; INOUE, Yoshihisa; WADA, Takehiko
- 2F3-43** Diastereodifferentiating Paternó-Büchi Reaction of Naphthylphenylethenes to Chiral *p*-Cyanobenzoate. Direct versus Charge-Transfer Band Excitation (Grad. Sch. Eng., Osaka Univ.) ○NAGASAKI, Keisuke; FUKUHARA, Gaku; INOUE, Yoshihisa; MORI, Tadashi
- 2F3-44** Effect of Lewis acid on a diastereoselective [2+2] photocycloaddition reaction of naphthoquinone tethered with vinyl ether (Grad. Sch. Eng., Osaka Univ.) ○ISHIKAWA, Hiroki; FUKUHARA, Gaku; KIDA, Toshiyuki; MORI, Tadashi

Chair: SAITO, Ryota (16 : 30~17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(2F3-46, 2F3-48, 2F3-50, 2F3-51)
- 2F3-46**[#] Photo-induced debenzoylation of a diamino-dichloro-benzoquinone derivative part 2 (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○SHIN, Insub; SHIMADA, Yuta; ISHIHARA, Shinji; HORIGUCHI-BABAMOTO, Emi; MATSUMOTO, Shinya
- 2F3-48**[#] Monitoring of the Bioactivity Recovery with Fluorescence Emission Generated by Photoirradiation to Caged Compounds (Grad. Sch. Mat. Sci., NAIST) ○NISHIYAMA, Yasuhiro; HIKAGE, Shin; TAKAHASHI, Katsuhiko; MAEHARA, Shohei; KAKIUCHI, Kiyomi
- 2F3-50** Design, Synthesis, and Reaction of the New Coumarin-based Caged Compounds with Two-Photon Absorption Character (Grad. Sch. Sci., Hiroshima Univ.) ○CHITOSE, Youhei; ABE, Manabu
- 2F3-51** Generation of radical probe using photolabile protecting groups with two photon (Fac. Sci., Hiroshima Univ.) ○YAMADA, Ayato; ABE, Manabu

Saturday, March 18, AM

Chair: MOMOTAKE, Atsuya (9 : 30 ~ 10 : 30)

- * 9:20-9:30: interval for laptop PC connection.(3F3-04, 3F3-05, 3F3-06, 3F3-07, 3F3-08, 3F3-09)
- 3F3-04** Synthesis of aggregation-induced emission active macrocycle consisting of highly twisted bis *N,N*-dialkylaminoarenes (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○OIZUMI, Tomohisa; KONISHI, Genichi
- 3F3-05** Fluorophore design based on the firefly light-emitter: spectroscopic properties of benzothiazole carboxylic acid derivatives in solution and solid state (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○TAKAHASHI, Yusuke; UEHARA, Takuya; MAKI, Sojiro; HIRANO, Takashi
- 3F3-06** Characterization of a firefly luciferase based on the bioluminescent properties of amine-substituted luciferin analogues (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○ITOU, Soichiro; MAKI, Sojiro; HIRANO, Takashi
- 3F3-07** Fluorescence Emission Behavior of Dimeric imidazo[1,5-*a*]pyridine under Acid-base Conditions (Fac. Eng., Tokushima Univ.) YAGISHITA, Fumitoshi; ○KOZAI, Natsumi; UETA, Shoko; TEZUKA, Yoshihiko; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko
- 3F3-08** Synthesis and Fluorescence Properties of (2,7)Pyrenophanes Tethered by Methylene Chains (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) FUTAESAKU, Ryota; FURUYAMA, Taniyuki; SEGI, Masahito; ○MAEDA, Hajime
- 3F3-09** Study on factors for high efficiency of imidazopyrazinone chemiluminescence with an intramolecular steric effect approach (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○KANAI, Yuki; MAKI, Sojiro; HIRANO, Takashi

Chair: HIRANO, Takashi (10 : 40~11 : 20)

- * 10:30-10:40: interval for laptop PC connection.(3F3-11, 3F3-12, 3F3-13, 3F3-14)
- 3F3-11** Synthesis of poly-benzylether dendrimer having 2,5-bis(benzimidazol-2-yl)pyrazine core (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) ○SUZUKI, Yuki; SASAKI, Kaname; SAITO, Ryouta

- 3F3-12** Triplet-Triplet Annihilation Photon Upconversion of a Dyad Linked by a Cage Moiety (Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○KOKITA, Yuto; MATSUI, Yasunori; KURAMOTO, Yutaro; OHTA, Eisuke; OGAKI, Takuya; IKEDA, Hiroshi
- 3F3-13** Photochemical behavior of water-soluble photoresponsive compounds in water and in bovine serum albumin (BSA) (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○ISHIDA, Yuka; ARAI, Tatsuo
- 3F3-14** Study of effects of solvent and generation on the isomerization of azobenzene cored dendrimers (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○MAMIYA, Michitaka; FUKUSHIMA, Shun; ARAI, Tatsuo

Room F4

Fourth Building Independence Wing D408

Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis

Friday, March 17, AM

Chair: TANAKA, Hiroshi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2F4-08, 2F4-09, 2F4-10, 2F4-12, 2F4-13)
- 2F4-08** Development of Ligand Immobilized Heterogeneous Chiral Rh Nanoparticle Catalysts for Asymmetric 1,4-addition Reaction (Graduate School of Science, The University of Tokyo) ○MIN, Hyemin; MIYAMURA, Hiroyuki; NISHINO, Kohei; KOBAYASHI, Shu
- 2F4-09** Development of Asymmetric Reduction of Ketones by Chiral Cobalt Nanoparticle Catalysts (Grad. Sch. Sci., The Univ. of Tokyo) ○SAITO, Yuuki; YASUKAWA, Tomohiro; KOBAYASHI, Shu
- 2F4-10[#]** Huisgen 1,3-Dipolar Cycloaddition in Water with An Amphiphilic Resin-Supported Triazine-Based Dendrimer-Copper Catalyst (LCCMS, IMS; ACCEL, JST) ○PAN, Shiguang; YAN, Shuo; OSAKO, Takao; UOZUMI, Yasuhiro
- 2F4-12[#]** Integration of Aerobic Oxidation and Intramolecular Asymmetric aza-Friedel-Crafts Reactions with a Chiral Bifunctional Heterogeneous Catalyst (Grad. Sch. Sci., The Univ. of Tokyo) ○YOO, Woo-jin; CHENG, Honggang; MIGUELEZ, Javier; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 2F4-13** A Highly Efficient Synthesis of Hydrogen Peroxides with a Cocatalyst System Using Metal Nanoparticle Catalyst and Anthraquinone under Continuous-Flow Conditions (Grad. Sch. Sci., The Univ. of Tokyo) ○TOBITA, Fumiya; MIYAMURA, Hiroyuki; SUZUKI, Aya; KOBAYASHI, Shu
- Chair: OSAKO, Takao (11 : 20~12 : 20)
- * 11:10-11:20: interval for laptop PC connection.(2F4-15, 2F4-16, 2F4-17, 2F4-18, 2F4-19, 2F4-20)
- 2F4-15** Optimal Design of Flow Distributors for Successful Blockage Diagnosis in a Numbering-up System of Monolithic Microreactors (Sch. Eng., Kyoto Univ.) ○TONOMURA, Osamu; NISHI, Kazuki; TANIGUCHI, Satoshi; NAGAKI, Aiichiro; HIROSE, Katsuyuki; HASEBE, Shinji; ISHIZUKA, Norio; YOSHIDA, Jun-ichi
- 2F4-16** Control of [1,3], [1,4] and [1,5]-Fries Rearrangement Using Flow Microreactor (Grad. Sch. Eng., Kyoto Univ.) ○INOUE, Keita; KIM, Heejin; YOSHIDA, Jun-ichi
- 2F4-17** Development of Enantioselective Lewis Acid Catalysis Using Immobilized Chiral 2,2'-Bipyridine Ligands (Grad. Sch. Sci., The Univ. of Tokyo) ○MASUDA, Koichiro; KITANOSONO, Taku; ZHU, Lei; KOBAYASHI, Shu
- 2F4-18** Development of Heterogeneous Rh Catalysts Using Immobilized Chiral Diene Ligands for Asymmetric 1,4-Addition Reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○KUREMOTO, Tatsuya; YASUKAWA, Tomohiro; MIN, Hyemin; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 2F4-19[#]** Polymer-Supported Chiral Phosphoric Acid as a Catalyst for the Enantioselective Povarov Reaction (Grad. Sch. Sci., The Univ. of Tokyo) ○RODRIGUEZ-SANTAMARIA, Jose Alberto; YOO, Woo-jin; KOBAYASHI, Shu
- 2F4-20** Microwave irradiation effect on the Fries rearrangement of substituted benzenes (Coll. Life Sci., Ritsumeikan Univ.) ○OKADA, Yutaka; IWATA, Yasutaka

Friday, March 17, PM

Chair: FUSE, Shinichiro (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2F4-28, 2F4-29, 2F4-30, 2F4-32)
- 2F4-28** Synthesis of APIs through two-step continuous-flow reactions using supported bases and heterogeneous Pd catalysts (Grad. Sch. Sci., The Univ. of Tokyo; IRC3, AIST) ○SAITO, Yuuki; LAROCHE, Benjamin; ISHITANI,

Haruro; KOBAYASHI, Shu

- 2F4-29** Continuous-Flow Synthesis of Cyano-containing Compounds Utilizing Aldol Condensation with Solid Base Catalysts (Grad. Sch. Sci., The Univ. of Tokyo; IRC3, AIST) ○NAKAMURA, Yosuke; SAITO, Yuki; ONOZAWA, Syun-ya; ISHITANI, Haruro; KOBAYASHI, Shu
- 2F4-30[#]** CsF Supported on Alumina: an Efficient Heterogeneous Basic Catalyst for Stereoselective 1,4-Addition of Glycine Schiff Bases (Grad. Sch. Sci., The Univ. of Tokyo) ○BORAH, Parijat; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 2F4-32*** Generation and Reactions of Carbamoyl Anions in Flow: Applications to Three-Component Synthesis of Functional α -Ketoamides (Grad. Sch. Eng., Kyoto Univ.) ○NAGAKI, Aiichiro; TAKAHASHI, Yusuke; YOSHIDA, Jun-ichi

Chair: FUSE, Shinichiro (14 : 40~15 : 30)

- * 14:30-14:40: interval for laptop PC connection.(2F4-35, 2F4-37, 2F4-39)
- 2F4-35[#]** Silicon Nanostructure-Stabilized Palladium Nanoparticles: Reductive Amination Using Hydrogen and Its Application to Flow Synthesis (RIKEN CSRS) ○SAITO, Takuma; NAKAO, Aiko; UOZUMI, Yasuhiro; YAMADA, Yoichi M. A.
- 2F4-37[#]** Formal hydrogen transfer reactions from saturated compounds to unsaturated compounds in continuous-flow reaction (Grad. Sch. Sci., The Univ. of Tokyo) ○SUZUKI, Aya; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 2F4-39[#]** Hydrogenation of aromatic compounds using polymer immobilized metal nanoparticle catalysts (Grad. Sch. Sci., The Univ. of Tokyo) ○MIYAMURA, Hiroyuki; SUZUKI, Aya; KOBAYASHI, Shu

Saturday, March 18, AM

Chair: NISHIYAMA, Yasuhiro (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(3F4-08, 3F4-09, 3F4-11, 3F4-12)
- 3F4-08** Continuous-flow Synthesis of Pregabalin Precursor (Grad. Sch. Sci., The Univ. of Tokyo; IRC3, AIST) ○KANAI, Kan; ISHITANI, Haruro; KOBAYASHI, Shu
- 3F4-09*** Chiral Nickel-Mesoporous Silica Composite as a Heterogeneous Asymmetric Catalyst for 1,4-Addition Reactions (Grad. Sch. Sci., The Univ. of Tokyo; IRC3, AIST) ○ISHITANI, Haruro; KANAI, Kan; KOBAYASHI, Shu
- 3F4-11** Integration of lithiation, borylation, and Suzuki-Miyaura Coupling Using Monolith Reactors Containing Palladium Catalyst (Sch. Eng., Kyoto Univ.) ○HIROSE, Katsuyuki; MORIWAKI, Yuya; ISHIZUKA, Norio; MITAMURA, Koji; MATSUKAWA, Kimihiro; TONOMURA, Osamu; TANIGUCHI, Satoshi; HASEBE, Shinji; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 3F4-12** Flow synthesis of cyclopentene annulated fullerene derivatives using amine supported silicagel (Grad. Sch. Sci., Osaka Pref. Univ.; Fac. Sci., Osaka Pref. Univ.) ○HAYAMA, Miho; MUNECHEKA, Aiko; UEDA, Mitsuhiko; RYU, Ilhyong

Chair: UEDA, Mitsuhiko (11 : 10~12 : 10)

- * 11:00-11:10: interval for laptop PC connection.(3F4-14, 3F4-15, 3F4-16, 3F4-17, 3F4-18, 3F4-19)
- 3F4-14** An efficient synthesis of *N*-methylated peptides using micro-flow methodology (Lab. Chem. Life Sci., Tokyo Tech.) ○OTAKE, Yuma; NAKAMURA, Hiroyuki; FUSE, Shinichiro
- 3F4-15** A Rapid and Clean Synthetic Approach to Cyclic Peptides via Micro-flow Peptide Chain Elongation and Photochemical Cyclization: Synthesis of a Cyclic RGD Peptide (IIR, Tokyo Tech.) ○FUSE, Shinichiro; MIFUNE, Yuto; NAKAMURA, Hiroyuki
- 3F4-16** Selective Flow Hydrogenation of Aldehydes in Water with an Amphiphilic Polymer-Supported Platinum Nanocatalyst (LCCMS, IMS; ACCEL, JST) ○OSAKO, Takao; TORII, Kaoru; HIRATA, Syuichi; UOZUMI, Yasuhiro
- 3F4-17** Highly Efficient Organic Photoreactions by Slug Flow Mode Using Flow Microreactors (Grad. Sch. Mat. Sci., NAIST) ○NOGUCHI, Jiro; NAKANO, Momoe; NISHIYAMA, Yasuhiro; KAKIUCHI, Kiyomi
- 3F4-18** Analysis of Halogen-Lithium Exchange Reactions Using the Flash Quench Flow Method. (Grad. Sch. Eng., Kyoto Univ.) ○YAMASHITA, Hiroki; MIUCHI, Nobuyuki; SASATSUKI, Kengo; HIROSE, Katsuyuki; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 3F4-19** Generation and Reactions of Functional Alkylolithiums Using Flow Microreactors (Grad. Sch. Eng., Kyoto Univ.) ○HIROSE, Katsuyuki; TSUCHIHASHI, Yuta; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

Saturday, March 18, PM

Chair: MIYAMURA, Hiroyuki (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(3F4-34, 3F4-35, 3F4-36, 3F4-37, 3F4-38, 3F4-39)
- 3F4-34** Analysis of β -Elimination of *o*-Halophenyllithiums Using Flash Quench Flow Method. (Grad. Sch. Eng., Kyoto Univ.) ○SASATSUKI, Kengo; ICHINARI, Daisuke; KITAMURA, Takaaki; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

- 3F4-35** Selectivity Control of the Reactions of Organolithiums with Acid Halides Bearing Electrophilic Functional Groups Using Fast Micromixing (Grad. Sch. Eng., Kyoto Univ.) ○MIUCHI, Nobuyuki; ISHIUCHI, Satoshi; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 3F4-36[#]** MODELING AND DESIGNING OF MILLI REACTORS FOR CONTINUOUS FLOW SYNTHESIS OF IONIC LIQUIDS (Institute For Innovation Ajinomoto Co., Inc.) ○NAKAHARA, Yuichi; TONOMURA, Osamu; NAGAKI, Aiichiro; HASEBE, Shinji; YOSHIDA, Jun-ichi; METTEN, Bert
- 3F4-37** Umpolung of α -Oxime Ester Using a Flow System (Grad. Sch. Eng., Mie Univ.) ○FUKUMOTO, Shinya; HACHIYA, Iwao; SHIMIZU, Makoto
- 3F4-38[#]** Synthesis of Iminocyclobutenone Using a Flow System (Fac. Eng., Mie Univ.) ○NAKAMURA, Kenta; HACHIYA, Iwao; SHIMIZU, Makoto
- 3F4-39** Flow Micro Synthesis of Optically Active (*E*)-1-Iodohepta-1,5-dien-3-ol (Fac. Sci., Kyushu Univ.) ○KATAYAMA, Sota; OISHI, Tohru

Chair: HACHIYA, Iwao (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(3F4-41, 3F4-42, 3F4-43, 3F4-44, 3F4-45, 3F4-46)
- 3F4-41** Environmentally-Friendly Photooxidation with Fine Bubble Method (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○NISHINA, Yuki; SATO, Kohei; NARUMI, Tetsuo; WATANABE, Naoharu; MASE, Nobuyuki
- 3F4-42** Rapid Reaction Optimization Using Continuous Flow Microwave Reactor (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○MASUDA, Tsuguya; TAKEDA, Kazuhiro; SATO, Kohei; NARUMI, Tetsuo; WATANABE, Naoharu; MASE, Nobuyuki
- 3F4-43** Multi-step Flow Synthesis of Optically Active Baclofen (Grad. Sch. Sci., The Univ. of Tokyo; IRC3, AIST) ○FURIYA, Yuichi; ISHITANI, Haruro; KOBAYASHI, Shu
- 3F4-44** Effects of Support and Secondly Support on Selective Hydrogenation of Nitro Alkanes Using Polysilane-Pt Heterogeneous Catalysts (Grad. Sch. Sci., The Univ. of Tokyo; IRC3, AIST) ○ISHITANI, Haruro; FURIYA, Yuichi; KOBAYASHI, Shu
- 3F4-45** Precise control of the reactions of 2,2,2-trifluoro-1-(phenylsulfonyl) ethyl anion using flow microreactor. (Grad. Sch. Sci. Tech., Gunma Univ.) ○ARAI, Ryosuke; AMII, Hideki; MURATA, Hiroyuki; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 3F4-46** Electrophilic Amination of Unstable Organolithium Compounds Using Flow Microreactors (Grad. Sch. Eng., Kyoto Univ.) ○YONEKURA, Yuya; KIM, Heejin; YOSHIDA, Jun-ichi

Room F5

Fourth Building Independence Wing
D409

Physical Organic Chemistry Reaction Mechanism

Thursday, March 16, AM

Chair: OHKUBO, Kei (10 : 00~10 : 40)

- * 9:50-10:00: interval for laptop PC connection.(1F5-07, 1F5-08, 1F5-09, 1F5-10)
- 1F5-07** Generation and Stability Evaluation of the Most Persistent Triplet Carbene in Mesoporous Silica (Grad. Sch. Eng., Mie Univ.) ○JINPO, Takashi; HIRAI, Katsuyuki; KITAGAWA, Toshikazu
- 1F5-08** Stability of the Most Persistent Triplet Di(9-anthryl)carbene in Crystalline State (Grad. Sch. Eng., Mie Univ.) ○YAMAGUCHI, Ryutarō; HIRAI, Katsuyuki; KITAGAWA, Toshikazu
- 1F5-09** Photochemical Reaction of Cyclobutane-1,3-dione Derivatives under Low Temperature Matrix Conditions (Fac. Sci., Hiroshima Univ.) ○KADOWAKI, Norito; ABE, Manabu
- 1F5-10** Steric effect on the reactivity of localized 1,3-diradicals (Grad. Sch. Sci., Hiroshima Univ.) ○AKISAKA, Rikuo; ABE, Manabu

Chair: KITAGAWA, Toshikazu (10 : 50~11 : 30)

- * 10:40-10:50: interval for laptop PC connection.(1F5-12, 1F5-14)
- 1F5-12*** Mechanistic Study on Alkoxy-Group Rearrangement of 4,4-Dialkoxy-1,2-diazacyclopentane-3,5-diyls (Grad. Sch. Sci., Hiroshima Univ.) ○YOSHIDOMI, Shohei; ABE, Manabu
- 1F5-14*** Photooxygenation using chlorine dioxide radical (Osaka Univ.) ○OHKUBO, Kei

Thursday, March 16, PM

Chair: FUJITA, Morifumi (14 : 30~15 : 00)

- * 14:20-14:30: interval for laptop PC connection.(1F5-34, 1F5-36)
- 1F5-34*** Chemistry of Cage-type Organic Radical Cations Generated by Single-Electron Transfer-Oxidation Reactions (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) KURAMOTO, Yutaro; MATSUI, Yasunori; OHTA, Eisuke; OGAKI, Takuya; ○IKEDA, Hiroshi

- 1F5-36** Electron-Transfer Promoted Substitution of C_{60} Chloride by Aromatic Donor Molecules (Grad. Sch. Eng., Mie Univ.) ○NISHIO, Sakina; KITAGAWA, Toshikazu

Chair: IKEDA, Hiroshi (15 : 10~15 : 40)

- * 15:00-15:10: interval for laptop PC connection.(1F5-38, 1F5-39, 1F5-40)
- 1F5-38** Two-photon absorption property of thioguanosine derivatives (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○ANDOU, Saki; SUZUKI, Tadashi
- 1F5-39** Solvatochromism of Betaines Involving an Acetylene Bridge: 4-[2-(1-Methylpyridinium-4-yl)ethynyl]phenolate Derivatives (Grad. Sch. Eng., Mie Univ.) NONOGAKI, Marine; ○KUBOTA, Toru; OKAZAKI, Takao; KITAGAWA, Toshikazu
- 1F5-40** Excited state dynamics of mono- and di-thio-substituted guanosines ~ The pH dependence ~ (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○MIYATA, Shoma; ISOZAKI, Tasuku; SUZUKI, Tadashi

Chair: KANENO, Daisuke (15 : 50~16 : 30)

- * 15:40-15:50: interval for laptop PC connection.(1F5-42, 1F5-44)
- 1F5-42*** Ion / Radical Selectivity in Photocleavage of Ether Bond of 2-Benzyloxy-naphthalene (Fac. Sci., Niigata Univ.) ○USUI, Satoshi; FUJITA, Haruka; KUNIMINE, Takuya; MUROHASHI, Takahiro; SUZUKI, Takahiro
- 1F5-44*** Silyloxy Nucleophile in Oxidation of Alkene with Hypervalent Iodine (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○FUJITA, Morifumi; SHIMOGAKI, Mio; SUGIMURA, Takashi

Chair: ITOH, Shuhei (16 : 40~17 : 30)

- * 16:30-16:40: interval for laptop PC connection.(1F5-47, 1F5-48, 1F5-49, 1F5-50)
- 1F5-47** Theoretical study on the mechanism and kinetics of Friedel-Crafts alkylation catalyzed aluminum chloride (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○SAMPEI, Masashi; SUMIYA, Yosuke; MAEDA, Satoshi; TAKETSUGU, Tetsuya
- 1F5-48** A DFT study of the electrophilic trifluoromethylation using Umemoto reagent (Grad. Sch. Sci., Osaka Pref. Univ.) ○TSUJIBAYASHI, Satoko; KATAOKA, Yutaka; HIRANO, Shun; MATSUBARA, Hiroshi
- 1F5-49** Molecular Dynamics Combined with Enhanced Sampling Technique for Solute-solvent Two-dimensional Decoupled Free Energy Landscape (Ind. Tech. Ctr. Nagasaki) ○SHIGEMITSU, Yasuhiro; OHGA, Yasushi
- 1F5-50*** Computational Study of the Through-Resonance Effect in 1-(Phenylamino)ethyl Cations (Sci. Res. Ctr., Hosei Univ.; IMCE, Kyushu Univ.) ○NAKATA, Kazuhide; FUJIO, Mizue

Organic Chemistry -Reaction and Synthesis- Organic Electron Transfer Chemistry

Friday, March 17, AM

Chair: OKADA, Yohei (9 : 30 ~10 : 30)

- * 9:20-9:30: interval for laptop PC connection.(2F5-04, 2F5-05, 2F5-06, 2F5-07, 2F5-08, 2F5-09)
- 2F5-04** One-pot synthesis of β -nitroalcohols using paired electrosynthesis (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○YOSHIDA, Manabu; YAMAGUCHI, Kazuki; TAJIMA, Toshiki
- 2F5-05** Electrolyte-free electrochemical glycosylation using glycosyl acceptors equipped with ionic liquid tag (Grad. Sch. Eng., Tottori Univ.) ○SASAKI, Norihiko; NOKAMI, Toshiki; ITOH, Toshiyuki
- 2F5-06** Electrochemical Transformations of Alkenes via β -iodoalkoxysulfonium Ions (Grad. Sch. Eng., Kyoto Univ.) ○HAYASHI, Ryutarō; SHIMIZU, Akihiro; YOSHIDA, Jun-ichi
- 2F5-07** A novel electrochemical carboxylation approach towards amino acid synthesis using a flow microreactor (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○QU, Yang; TSUNEISHI, Chiaki; MATSUMURA, Yoshimasa; ATOBE, Mahito
- 2F5-08** Mg-Promoted Reductive Coupling of Ethyl Cinnamates with Aliphatic α, β -Unsaturated Esters (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○DOMON, Chisa; KURAMOCHI, Keisuke; MAEKAWA, Hirofumi
- 2F5-09** Control of Reactions Using Redox Switchable Catalysts (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○HIRATA, Takayuki; KURIHARA, Yusuke; MITSUDO, Koichi; SUGA, Seiji

Chair: SHIMIZU, Akihiro (10 : 40~11 : 40)

- * 10:30-10:40: interval for laptop PC connection.(2F5-11, 2F5-12, 2F5-13, 2F5-14, 2F5-15, 2F5-16)
- 2F5-11** Synthesis of ring-fused π -electron systems via intramolecular nucleophilic aromatic substitution reactions (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech.) ○ASANUMA, Yuki; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi; INAGI, Shinsuke
- 2F5-12** Mechanistic Investigation of Radical Cation Diels-Alder Reaction Using Silica Gel (Fac. Agr., Tokyo Univ. of Agri. and Technol.) ○OZAKI, Atsushi; YAMAGUCHI, Yusuke; OKADA, Yohei; KITANO, Yoshikazu; CHIBA, Kazuhiro
- 2F5-13** Mg-promoted Reductive Silylation of Styrenes with a leaving group (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○TAHARA, Shota; MAEKAWA, Hirofumi

- 2F5-14** Synthesis of Fluorinated Bicyclic Molecule via Prins Cyclization Using Lewis Acids (Grad. Sch. Sci. Eng., Kindai Univ.) MATSUMOTO, Kouichi; ○YANAGI, Rina; YAMAGUCHI, Kouji; NOKAMI, Toshiki; NISHIWAKI, Keiji; KASHIMURA, Shigenori
- 2F5-15** Chemoselective Electrochemical Carboxylation of Haloacetophenones (Sch. Eng., Hokkaido Univ.; Grad. Sch. Eng., Hokkaido Univ.) ○MIYAUCHI, Shoko; SENBOKU, Hisanori
- 2F5-16** Desulfonation reaction of sulfonamides promoted by photo-induced electron transfer of a hydroxynaphthyl substituted benzimidazole (Grad. Sch. Sci. and Technol., Niigata Univ.; Fac. Sci., Niigata Univ.) ○IZUMIYA, Norihiro; NAGAKURA, Yuto; MATSUMOTO, Keisuke; HASEGAWA, Eietsu

Friday, March 17, PM

Chair: SHIMAKOSHI, Hisashi (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2F5-28, 2F5-29, 2F5-30, 2F5-31, 2F5-32, 2F5-33)
- 2F5-28** Stereoselective electrochemical reactions by using optically active thermoresponsive polymer-grafted carbon fiber electrodes (Fac. Sci. Eng., Kindai Univ.) ○SHOJI, Takuya; ISHIFUNE, Manabu
- 2F5-29** Development of Redox Flow Batteries Using Amphoteric Organic Active Materials (Grad. Sch. Eng., Kyoto Univ.) ○TANIZAWA, Hideya; SHIMIZU, Akihiro; YOSHIDA, Jun-ichi
- 2F5-30** Electron transfer process of metalloporphyrins complexed with the thermoresponsive polymer-grafted electrodes bearing nitrogen-containing ligands (Grad. Sch. Sci. Eng., Kindai Univ.) ○MIYANO, Yuuki; ISHIFUNE, Manabu
- 2F5-31** Development of Liquid Organic Active Materials and Application to Solvent-Free Redox-Flow Batteries (Grad. Sch. Eng., Kyoto Univ.) ○TAKENAKA, Keisuke; SHIMIZU, Akihiro; YOSHIDA, Jun-ichi
- 2F5-32** Development of Croconate ion based ionic liquids as an active material for organic secondary battery (Grad. Sch. Eng., Tottori Univ.) ○HANDA, Naoyuki; KOMURA, Takuro; NOKAMI, Toshiki; ITOH, Toshiyuki
- 2F5-33** Crystal growth of pillar[6]arene controlled by anodic oxidation. (Sch. Mater. & Chem. Tech., Tokyo Tech.; Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○TSUNEISHI, Chiaki; KOIZUMI, Yuki; NISHIYAMA, Hiroki; SUETO, Ryuta; OGOSHI, Tomoki; YAMAGISHI, Tada-aki; TOMITA, Ikuyoshi; INAGI, Shinsuke

Chair: MITSUDO, Koichi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2F5-35, 2F5-36, 2F5-37, 2F5-38, 2F5-39, 2F5-40)
- 2F5-35** End group control in the electroreductive synthesis of polysilanes and the click reactions of the resulting polysilanes (Fac. Sci. Eng., Kindai Univ.) ○SHIMADZU, Takuto; ISHIFUNE, Manabu
- 2F5-36** Anodic chlorination of poly(3-hexylthiophene) in boron trifluoride-diethyl ether complex (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KURIOKA, Tomoyuki; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi; INAGI, Shinsuke
- 2F5-37** Effect on Power Conversion Efficiency Using Partial Brominated Poly(3-hexylthiophene) in Organic Thin Film Solar Cells (Fac. Sci. Eng., Kindai Univ.) MATSUMOTO, Kouichi; ○TAKADA, Ken; TANIAI, Norito; KHADHIJAH, Siti; YOSHITOMI, Takuya; KASHIMURA, Shigenori; TANAKA, Senku
- 2F5-38** Synthesis of dendritic PEDOT films using a bipolar electropolymerization method (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech.) ○OHIRA, Masato; HIROKI, Nishiyama; TOMITA, Ikuyoshi; INAGI, Shinsuke
- 2F5-39** Electroreductive polymerization of hexafluorobenzene (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○WAKAI, Daigo; KAWAGUCHI, Yuki; MURASUGI, Megumi; ANDO, Takumi; TAJIMA, Toshiki
- 2F5-40** Electrochemical Synthesis of poly(3-Hexylthiophene) in a Flow Microreactor (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) MIZUNO, Masatsugu; ○ATOBE, Mahito

Chair: INAGI, Shinsuke (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2F5-42, 2F5-43, 2F5-44, 2F5-45, 2F5-46, 2F5-47)
- 2F5-42** Design, Synthesis, and Properties of π -Conjugated Zwitterion Composed of Electron Donor and Acceptor (Grad. Sch. Eng., Kyoto Univ.) ○SHIMIZU, Akihiro; HORIUCHI, Shun; ISHIZAKI, Yu; YOSHIDA, Jun-ichi
- 2F5-43** Synthesis and Properties of π -Conjugated Zwitterion Having Singlet Biradical Character (Sch. Eng., Kyoto Univ.) ○ISHIZAKI, Yu; HORIUCHI, Shun; SHIMIZU, Akihiro; YOSHIDA, Jun-ichi
- 2F5-44** Synthesis and Properties of a π -Conjugated Zwitterion Having Near-Infrared Light Absorption (Grad. Sch. Eng., Kyoto Univ.) ○HORIUCHI, Shun; ISHIZAKI, Yu; SHIMIZU, Akihiro; YOSHIDA, Jun-ichi
- 2F5-45** Development of fluorescence sensor for water based on photoinduced electron transfer and aggregation-induced emission characteristics (Fac. Eng., Hiroshima Univ.) ○NOMURA, Ryosuke; SAGISAKA, Rizumu; OYAMA, Yousuke; OOSHITA, Joji
- 2F5-46** Development of Fluorescence Sensor Based on Photo-induced

Electron Transfer(PET) and Aggregation Induced Emission (AIE) for Detection of Large to Small Amount of Water. (Grad. Sch. Eng., Hiroshima Univ.) ○SAGISAKA, Rizumu; OYAMA, Yousuke; OSHITA, Joji

- 2F5-47[#]** Electron transfer reactions and density functional theory (Grad. Sch. Eng., Osaka Univ.) ○YANAGIDA, Shozo; MATSUMURA, Takeko

Saturday, March 18, AM

Chair: MATSUMOTO, Kouichi (9 : 30 ~ 10 : 30)

- * 9:20-9:30: interval for laptop PC connection.(3F5-04, 3F5-05, 3F5-06, 3F5-07, 3F5-08, 3F5-09)
- 3F5-04** Anodic Diels-Alder Reaction Using Enole ether as Electron-Rich Alkene (Fac. Agr., Tokyo Univ. of Agri. and Technol.) ○SHIMIZU, Ryo; YAMAGUCHI, Yusuke; OKADA, Yohei; KITANO, Yoshikazu; CHIBA, Kazuhiro
- 3F5-05** Asymmetric Synthesis of Piperidine Derivatives by using the Indirect Cation Pool Method (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○HAISA, Masahiro; MITSUDO, Koichi; SUGA, Seiji
- 3F5-06** Cathodic Reduction of Acetophenone Using a Boron-Doped Diamond Electrode (Fac. Sci. Tech., Keio Univ.) ○NAKAHARA, Kenshin; YAMA, Keisuke; OBATA, Rika; SAITOH, Tsuyoshi; NISHIYAMA, Shigeru; YAMAMOTO, Takashi; EINAGA, Yasuaki
- 3F5-07** Synthesis of novel HF-complexes and their application to anodic fluorination (Coll. Eng., Shibaura Inst. of Tech.) ○SAGO, Keita; YAMADA, Masahide; AOKI, Tsubasa; TAJIMA, Toshiki
- 3F5-08** Magnesium promoted reductive silylation of aliphatic conjugated esters with a leaving group at β -position (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○YOSHIZAWA, Misaki; IKARASHI, Yuki; NODA, Katsuki; MAEKAWA, Hirofumi
- 3F5-09[#]** Radical cation Diels-Alder reactions by Electrocatalysis (Fac. Agr., Tokyo Univ. of Agri. and Technol.) ○IMADA, Yasushi; OKADA, Yohei; CHIBA, Kazuhiro

Chair: NOKAMI, Toshiki (10 : 40~11 : 40)

- * 10:30-10:40: interval for laptop PC connection.(3F5-11, 3F5-13, 3F5-15)
- 3F5-11[#]** Hole Mobility of Tetrathienonaphthalene Film: Amorphous Solid Simulation and Device Fabrication (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.; Grad. Sch. Sci., Osaka Pref. Univ.; X-ray Division, Rigaku, Co. Ltd.) ○MATSUI, Yasunori; YAMAMOTO, Atsushi; ASADA, Toshio; KUMEDA, Motoki; TAKAGI, Kenichiro; SUENAGA, Yu; NAGAE, Kunihiko; OHTA, Eisuke; SATO, Hiroyasu; OGAKI, Takuya; NAITO, Hiroyoshi; KOSEKI, Shiro; IKEDA, Hiroshi
- 3F5-13[#]** Bioinspired electrolysis of alkenes catalyzed by the B_{12} model complex (Grad. Sch. Eng., Kyushu Univ.) ○LUO, Zhongli; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 3F5-15[#]** Facile Synthesis of Trifluoromethylated Furans by Mg-Promoted Two-step Strategy from Aromatic Ynones and Ethyl Trifluoroacetate (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○ZHANG, Tianyuan; MAEKAWA, Hirofumi

Room F6

Fourth Building Independence Wing
D410

Physical Organic Chemistry Structures and Properties

Thursday, March 16, PM

Porphyrin, phthalocyanine

Chair: SHIMIZU, Soji (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(1F6-25, 1F6-27, 1F6-28, 1F6-29)
- 1F6-25[#]** Tetraazaporphyrin *meso*-N-Oxides: Synthesis and Tunable Optical Properties (Grad. Sch. Pharm., The Univ. of Tokyo; RIKEN) ○TORIUMI, Naoyuki; YANAGI, Shunsuke; MURANAKA, Atsuya; UCHIYAMA, Masanobu
- 1F6-27** Development of novel diazaporphyrins for photodynamic therapy (Grad. Sch. Eng., Nagoya Univ.; Université de Montpellier) ○YAMAJI, Ayaka; LONGEVIAL, Jean-francois; MIYAKE, Yoshihiro; RICHETER, Sebastien; SHINOKUBO, Hiroshi
- 1F6-28** Structural control of *meso*-oxyporphyrin dimers: inner-metal effect on their open-shell characters (Dep. Chem., Sch. Sci., Kyoto Univ.) ○JUN-I, Yuta; FUKUI, Norihito; OSUKA, Atsuhiro
- 1F6-29[#]** Stable Aminyl Radicals of a Triaminobenzene-fused Porphyrin Trimer (Dep. Chem., Sch. Sci., Kyoto Univ.) ○SHIMIZU, Daiki; OSUKA, Atsuhiro

Chair: SUGIURA, Ken-ichi (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(1F6-32, 1F6-34, 1F6-36, 1F6-37)

- 1F6-32*** Synthesis of Novel Porphyrinoids Containing Heteroatoms at meso-Positions (Grad. Sch. Eng., Nagoya Univ.) OOMORI, Hiroto; HIROTO, Satoru; SHINOKUBO, Hiroshi
- 1F6-34*** Diarylphosphine-fused Porphyrins with Low Inversion Activation Barriers (Dep. Chem., Sch. Sci., Kyoto Univ.) OFUJIMOTO, Keisuke; KASUGA, Yuko; FUKUI, Norihito; OSUKA, Atsuhiko
- 1F6-36** Synthesis and electronic structure of Yttrium dinuclear complex coordinated by fused porphyrin (Sch. Sci., Osaka Univ.) OOGAWA, Kaya; LEE, Sunri; TANI, Yosuke; YAMASHITA, Ken-ichi; OGAWA, Takuji
- 1F6-37** Direct Fusion of Diphenylmethane to Triarylporphyrin Forms an Air-stable Radical (Dep. Chem., Sch. Sci., Kyoto Univ.; Center for Inst. Anal., Niigata Univ.) OKATO, Kenichi; FURUKAWA, Ko; YORIMITSU, Hideki; OSUKA, Atsuhiko

Chair: HIROTO, Satoru (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(1F6-39, 1F6-40, 1F6-42, 1F6-44)

- 1F6-39** The Diels-Alder reaction of porphyrin quinones and acenes (Grad. Sch. Sci. Eng., TMU) OWATANABE, Risa; SUGIURA, Kenichi
- 1F6-40*** Synthesis and Redox Properties of an Expanded Quinone-Type Quadruply-Fused Porphyrin (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OSAEGUSA, Yuta; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko
- 1F6-42*** Synthesis and Properties of Triply Fused Porphyrin Oligomers Containing a Curved π -System (Dep. Chem., Sch. Sci., Kyoto Univ.) OFUKUI, Norihito; OSUKA, Atsuhiko
- 1F6-44** Synthesis and properties of phenylene bridged Ni(II)porphyrin meso-oxy radical dimers (Dep. Chem., Sch. Sci., Kyoto Univ.) OYAMAMOTO, Takayuki; SHIMIZU, Daiki; OSUKA, Atsuhiko

Chair: MURANAKA, Atsuya (16 : 30~17 : 30)

* 16:20-16:30: interval for laptop PC connection.(1F6-46, 1F6-47, 1F6-48, 1F6-49, 1F6-50, 1F6-51)

- 1F6-46** Control of Phthalocyanine Ring Distortion by Substitution at Non-peripheral Positions (Fac. Textile Sci. Technol., Shinshu Univ.) OOHSHIMA, Teruaki; KOBAYASHI, Nagao; KIMURA, Mutsumi
- 1F6-47** Synthesis of free-base phthalocyanines having electron withdrawing groups by using lead ion (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) OMIYAJI, Yusuke; MAEDA, Hajime; SEGI, Masahito; FURUYAMA, Taniyuki
- 1F6-48** Synthesis and Coordination Chemistry of N-Confused Porphyrin-Azadipyrin Conjugates (Grad. Sch. Eng., Kyushu Univ.) OFUKUDA, Masaya; SHIMIZU, Soji; FURUTA, Hiroyuki
- 1F6-49** C13²-Substitution and physical property of chlorophyll-*a* derivatives (Coll. Life Sci., Ritsumeikan Univ.) TAMIAKI, Hitoshi; OEGAMI, Yuki; OGASAWARA, Shin
- 1F6-50** Synthesis of C13²-substituted chlorophyll derivatives and their self-aggregation (Coll. Life Sci., Ritsumeikan Univ.) TAMIAKI, Hitoshi; OFUJIWARA, Yoshiki; OGASAWARA, Shin
- 1F6-51** Synthesis and electronic absorption spectrum of 8-vinyl-13²,17²-cyclophosphoride-*a* (Grad. Sch. Life Sci., Ritsumeikan Univ.) OKINOSHITA, Yusuke; KITAGAWA, Yuichi; KASHIYAMA, Yuichiro; TAMIAKI, Hitoshi

Chair: FURUYAMA, Taniyuki (17 : 40~18 : 40)

* 17:30-17:40: interval for laptop PC connection.(1F6-53, 1F6-54, 1F6-55, 1F6-56, 1F6-57, 1F6-58)

- 1F6-53** Development of Novel Light-emitting Materials prepared by 2-acetylpyrrole based bispyrrole-ligand with 13 group elements (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST) OISHIHAMA, Kohei; ONO, Toshikazu; HISAEDA, Yoshio
- 1F6-54** Facile Synthesis of meso-tetraalkylporphyrines (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST) OKOGA, Daiki; ONO, Toshikazu; HISAEDA, Yoshio
- 1F6-55** Synthesis and properties of 5-aza-15-thiaporphyrins (Grad. Sch. Eng., Nagoya Univ.) OYAMASHITA, Daisuke; OOMORI, Hiroto; SHINOKUBO, Hiroshi
- 1F6-56** Synthesis of Novel Porphyrin Dimers via Cyclization of Alkyne Unit (Grad. Sch. Eng., Nagoya Univ.) ONAGAI, Tomohiro; UEDA, Masayuki; ODA, Kazuma; HIROTO, Satoru; SHINOKUBO, Hiroshi

Expanded porphyrins

- 1F6-57** Synthesis of macrocyclic porphyrinoid compounds based on 2,5-bis(2-pyrrolyl)thiophene scaffold (Grad. Sch. Sci., Eng., Saitama Univ.) OXU, Siyu; FUJIHARA, Takashi; ISHIMARU, Yoshihiro
- 1F6-58** Synthesis and properties of macrocyclic porphyrinoid compounds using scandium triflate (Grad. Sch. Sci., Eng., Saitama Univ.) OHOSODA, Natsuki; FUJIHARA, Takashi; ISHIMARU, Yoshihiro

Friday, March 17, AM

Chair: ARATANI, Naoki (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2F6-01, 2F6-02, 2F6-03, 2F6-04, 2F6-05, 2F6-06)

- 2F6-01** Synthesis and Properties of meso-Triarylcorrole Silicon Complexes (Dep. Chem., Sch. Sci., Kyoto Univ.) OUETA, Kento; TANAKA, Takayuki; OSUKA, Atsuhiko
- 2F6-02** Synthesis and Molecular Packing Control of Subnaphthalocyanine Derivatives as Organic Semiconductive Materials by Peripheral Substitution (Grad. Sch. Eng., Doshisha Univ.) OTAKAGI, Akuto; MIZUTANI, Tadashi
- 2F6-03** Synthesis and Magnetic Properties of Dipalladium Complex of Contracted Doubly N-Confused Hexaphyrin (Grad. Sch. Eng., Kyushu Univ.) OHISAMUNE, Yutaka; YAMASUMI, Kazuhisa; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 2F6-04** Electronic Structure and Redox Behavior of a Contracted Doubly N-Confused Hexaphyrin Dicopper Complex (Grad. Sch. Eng., Kyushu Univ.) OYAMASUMI, Kazuhisa; NISHIMURA, Keiichi; HISAMUNE, Yutaka; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 2F6-05** Synthesis and properties of [38]octaphyrin germanium(IV) complexes (Dep. Chem., Sch. Sci., Kyoto Univ.) OIZAWA, Mondo; OSUKA, Atsuhiko
- 2F6-06** Synthesis and property of octaphyrin-silicon complexes (Dep. Chem., Sch. Sci., Kyoto Univ.) OISHIDA, Shinichiro; OSUKA, Atsuhiko

Chair: OKAWARA, Toru (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2F6-08, 2F6-10, 2F6-11, 2F6-12)

- 2F6-08^{##}** Aromaticity, Reactivity, and Coordination Property of meso-Aryl β -Alkyl Hybrid Pentaphyrins (Grad. Sch. Pharm. Sci., Chiba Univ.) OYONEDA, Tomoki; MORI, Daiki; HOSHINO, Tyuji; NEYA, Saburo
- 2F6-10** Synthesis and Properties of Möbius Aromatic Annulenoannulene Based on Internally Bridged Expanded Porphyrins (Dep. Chem., Sch. Sci., Kyoto Univ.) OSOYA, Takanori; MORI, Hirota; OSUKA, Atsuhiko
- 2F6-11** Synthesis of Doubly N-Confused Octaphyrin and Its Dynamic Structure (Grad. Sch. Eng., Kyushu Univ.) OITSUNO, Koki; ISHIDA, Masatoshi; FURUTA, Hiroyuki

Contracted porphyrinoids

- 2F6-12^{##}** Metal Complexes of meso-meso Linked Corrole Dimers (Dep. Chem., Sch. Sci., Kyoto Univ.) OOOI, Shota; TANAKA, Takayuki; OSUKA, Atsuhiko

Chair: ISHIDA, Masatoshi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2F6-15, 2F6-17, 2F6-19, 2F6-20)

- 2F6-15*** Synthesis of Ethylene Bridged Expanded Porphyrins (Fac. Eng., Iwate Univ.; Grad. Sch. Mat. Sci., NAIST) OKUZUHARA, Daiki; XUE, Songlin; ARATANI, Naoki; YAMADA, Hiroko
- 2F6-17*** Emergence of 3D aromaticity in stacked norcorrole dimers (Grad. Sch. Eng., Nagoya Univ.) ONOZAWA, Ryo; SHIMIZU, Soji; HISAKI, Ichiro; CHA, Won Young; KIM, Dongho; SHINOKUBO, Hiroshi
- 2F6-19** Synthesis and properties of antiaromatic norcorroles with meso-heteroaryl substituents (Grad. Sch. Eng., Nagoya Univ.) OTABUCHI, Shiori; YOSHIDA, Takuya; NOZAWA, Ryo; SHINOKUBO, Hiroshi
- 2F6-20** Synthesis of a norcorrole porphyrin triply fused dimer (Grad. Sch. Eng., Nagoya Univ.) OITO, Satoru; SHINOKUBO, Hiroshi

Friday, March 17, PM

Contracted porphyrinoids

Chair: HISAKI, Ichiro (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2F6-28, 2F6-29, 2F6-31, 2F6-33)

- 2F6-28** Construction of Supramolecular Polymers Using Tetrathiafulvalene-Annulated Subphthalocyanines (Grad. Sch. Eng., Kyushu Univ.) OUCHIHARA, Koya; FURUKAWA, Ko; FURUTA, Hiroyuki; SHIMIZU, Soji
- 2F6-29*** Synthesis and Characterization of Novel Pyrrole-Modified Subporphyrins (Dep. Chem., Sch. Sci., Kyoto Univ.) OYOSHIDA, Kota; OSUKA, Atsuhiko
- 2F6-31*** Various Changes in Properties of Antiaromatic Norcorroles by Substituent Effects and π -Expansion (Grad. Sch. Eng., Nagoya Univ.) OYOSHIDA, Takuya; TAKAHASHI, Kohtarō; SAKAMAKI, Daisuke; SEKI, Shu; YAMADA, Hiroko; SHINOKUBO, Hiroshi
- 2F6-33** Synthesis and properties of copper and freebase norcorroles (Grad. Sch. Eng., Nagoya Univ.) OYONEZAWA, Tsubasa; HIROTO, Satoru; SHINOKUBO, Hiroshi

Synthesis and properties

Chair: YONEDA, Tomoki (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(2F6-49, 2F6-50, 2F6-51, 2F6-52)
- 2F6-49** Synthesis and Optical Properties of Double C7-Alkylene-Strapped 9,10-Diphenylanthracenes Functionalized at the 2,6-Positions (Grad. Sch. Sci., Shizuoka Univ.) ○OHSAWA, Hirokazu; KOBAYASHI, Kenji
- 2F6-50** Study for the Synthesis of Cyclohexa-2,7-Anthrylene Derivatives Based on 1,8-Diaryl-3,6-Diborylanthracenes (Grad. Sch. Sci., Shizuoka Univ.) ○OKUBO, Keisuke; TAKAKI, Yuta; KOBAYASHI, Kenji
- 2F6-51** Synthesis of a Doubly 1,8-Naphthylene Bridged Face-to-face Perylene Dimer (Grad. Sch. Mat. Sci., NAIST) ○MURAYAMA, Tomohisa; ARATANI, Naoki; YAMADA, Hiroko
- 2F6-52** Direct Phosphonation to Main Chain of Polyanilines (Grad. Sch. Eng., Osaka Univ.) ○HATAI, Tomohiro; KURATA, Izumi; DAIIJO, Masato; HIRAO, Toshikazu; AMAYA, Toru

Saturday, March 18, AM

Organic Radical and Molecular Magnet

Chair: MATSUDA, Kenji (9 : 00 ~ 9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(3F6-01, 3F6-02, 3F6-03, 3F6-04, 3F6-05)
- 3F6-01** Synthesis and Supramolecular Formation of Amphiphilic Pentacene Derivatives (Fac. Sci. Tech., Keio Univ.) ○YOSHINO, Keisuke; SAKAI, Hayato; HASOBE, Taku
- 3F6-02** Spin-multiplicity of Tetra-radicals in Paraphenylene Structures (Grad. Sch. Sci., Hiroshima Univ.) ○MATSUMOTO, Misaki; NAKAMURA, Takeshi; OKAMOTO, Kazushige; ABE, Manabu
- 3F6-03** Construction of One-dimensional π -Stacked Radical Polymers with Chiral Moieties (Fac. Eng., Aichi Inst. of Tech.; Fac. Eng., Aichi Inst. of Tech.) ○TORII, Takeshi; MURATA, Tsuyoshi; MORITA, Yasushi
- 3F6-04** Controlling distances and magnetic properties of bisnitroxide compounds using various molecular spacers (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○KOIZUMI, Naoki; ISHIDA, Takayuki
- 3F6-05** Preparations and Physical Properties of Gel Magnets Consisted of Heterospin (Grad. Sch. Pharm., Kyushu Univ.) ○MORI, Koya; KARASAWA, Satoru

Chair: MURATA, Tsuyoshi (10 : 00~11 : 00)

- * 9:50-10:00: interval for laptop PC connection.(3F6-07, 3F6-09, 3F6-11, 3F6-12)
- 3F6-07^{##}** Magnetic Properties of Biradical and Diradical Liquid Crystals (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○TAKEMOTO, Yusa; ELENA, Zaytseva; YOSHIOKA, Naoki; SUZUKI, Katsuki; UCHIDA, Yoshiaki; SHIMONO, Satoshi; KATO, Tatsuhisa; DMITRII G, Mazhukin; TAMURA, Rui
- 3F6-09*** Synthesis, structures, and magnetic properties of two types of meso-meso linked Fe(III) corrole dimers (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TANAKA, Takayuki; OOI, Shota; IDE, Yuki; IKEUE, Takahisa; OSUKA, Atsuhiko

Organic Semiconductor

Chair: TAKAI, Atsuro (11 : 10~12 : 10)

- * 11:00-11:10: interval for laptop PC connection.(3F6-14, 3F6-16, 3F6-18)
- 3F6-14^{##}** Synthesis and Carrier Transporting Property of N-Shaped π -Conjugated Molecules Including a Pyrazine Moiety (Grad. Sch. Frontier Sci., The Univ. of Tokyo; Grad. Sch. Sci. and Eng., Kansai Univ.) ○KUSHIDA, Tomokatsu; MITANI, Masato; MITSUI, Chikahiko; AOKI, Yuji; MURATA, Yoshinori; SHIKATA, Ryoji; WAKIMOTO, Takahiro; YANO, Masafumi; TAKEYA, Jun; OKAMOTO, Toshihiro
- 3F6-16^{##}** Crystal and liquid crystal structures in phenyl-benzothienobenzothio-phenylene derivatives for organic transistor applications (IIR, Tokyo Tech.) ○INO, Hiroaki; USUI, Takayuki; HANNA, Jun-ichi
- 3F6-18*** Synthesis and Characterization of Air-Stable N-type Semiconducting Polymers Derived from Quinoxalineimide (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HASEGAWA, Tsukasa; ASHIZAWA, Minoru; KAWAUCHI, Susumu; MATSUMOTO, Hidetoshi

Saturday, March 18, PM

Chair: ASHIZAWA, Minoru (13 : 20~14 : 20)

- * 13:10-13:20: interval for laptop PC connection.(3F6-27, 3F6-29, 3F6-31,

3F6-32)

- 3F6-27^{##}** Substituent Effects on Sulfur-bridged N-shaped Semiconducting Molecules and Their Carrier Transporting Properties (Grad. Sch. Frontier Sci., The Univ. of Tokyo; Grad. Sch. Sci. and Eng., Kansai Univ.; Rigaku Corp.) ○MITANI, Masato; AOKI, Yuji; SHIKATA, Ryoji; MURATA, Yoshinori; YANO, Masafumi; SATO, Hiroyasu; YAMANO, Akihiro; TAKEYA, Junichi; MITSUI, Chikahiko; OKAMOTO, Toshihiro
- 3F6-29^{##}** Structural change and dynamics in aggregated structure of sulfur-bridged N-shape organic semiconductor under thermal condition (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○MITSUI, Chikahiko; MITANI, Masato; HASHIZUME, Daisuke; ISHII, Hiroyuki; TAKEDA, Kodai; KATO, Tetsuya; KATAYAMA, Masayuki; SATO, Hiroyasu; YAMANO, Akihiro; TAKEYA, Jun; OKAMOTO, Toshihiro
- 3F6-31** Development of copolymers having fluorine-containing benzodiox-cycloalkene-annulated thiophene as an acceptor unit: Influence of spacer unit on photovoltaic characteristics (ISIR, Osaka Univ.) ○MORIKAWA, Koki; IE, Yutaka; KARAKAWA, Makoto; ASO, Yoshio
- 3F6-32** Synthesis and Properties of Quinoidal Oligothiophenes with Benzene Annulation for Stabilization of Quinoidal Structure (ISIR, Osaka Univ.) ○YAMAMOTO, Keitaro; IE, Yutaka; NITANI, Masashi; KAKIUCHI, Fumitoshi; ASO, Yoshio

Chair: KANOMATA, Nobuhiro (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(3F6-34, 3F6-36, 3F6-37, 3F6-38, 3F6-39)
- 3F6-34*** Theoretical Study on Charge Transport in Anion-Responsible π -Electronic Systems (TCMS, IMS; Coll. Life Sci., Ritsumeikan Univ.) ○FUJITA, Takatoshi; HAKETA, Yohei; MAEDA, Hiromitsu; YAMAMOTO, Takeshi

Molecular Structure and Stereochemistry

- 3F6-36** The longest C-C bond length beyond 1.80 Å: Comparisons of the experimental analysis and the theoretical calculation (Fac. Sci., Hokkaido Univ.) ○ISHIGAKI, Yusuke; SHIMAJIRI, Takuya; UCHIMURA, Yasuto; KATOONO, Ryo; SUZUKI, Takanori
- 3F6-37** Syntheses and properties of hetero indanedione dimers for the emergence of reactivity against the anisotropic pressure (Grad. Sch. Eng., Osaka Univ.) ○FUJINAKA, Takahisa; YAKIYAMA, Yumi; SAKURAI, Hidehiro
- 3F6-38** Synthesis and characterization of meso-tetra(*N*-carbazolyl)porphyrin and its metal complexes (Sch. Sci., Nagoya Univ.) ○KAWADA, Sae; KAWANO, Shin-ichiro; TANAKA, Kentaro
- 3F6-39** Synthesis and dynamic structural changes of hydrophobic helical Co (II)complex (Fac. Sci., Osaka City Univ.) ○SHINOHARA, Hiroki; FUJITA, Aiko; SHINODA, Satoshi; MIYAKE, Hiroyuki

Chair: INOKUMA, Yasuhide (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(3F6-41, 3F6-43, 3F6-44, 3F6-46)
- 3F6-41^{##}** Construction of Helical Structure based on L-shaped Dibenzopyrrolo [1,2-*a*][1,8]naphthyridines (Grad. Sch. Chem. Sci. Technol., TUS) ○TATENO, Kotaro; OTANI, Takashi; ONO, Kosuke; SAITO, Takao; KAWAI, Hidetoshi
- 3F6-43** Synthesis, Structure and Properties of Metal Complexes of L-shaped Dibenzopyrrolo[1,2-*a*][1,8]naphthyridine Dimers Linked by Bipyrilidene Spacer (Grad. Sch. Chem. Sci. Technol., TUS) ○KINJO, Keigo; TATENO, Kotaro; ONO, Kosuke; KAWAI, Hidetoshi
- 3F6-44^{##}** Thermodynamics and photodynamics of a monoprotonated porphyrin directly stabilized by hydrogen bonding (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; IAI, Osaka Univ.; IMCE, Kyushu Univ.; Faculty of Science and Technology; Department of Chemistry and Nano Science, Ewha Womans Univ.) ○SUZUKI, Wataru; KOTANI, Hiroaki; ISHIZUKA, Tomoya; OHKUBO, Kei; SHIOTA, Yoshihito; YOSHIZAWA, Kazunari; FUKUZUMI, Shumichi; KOJIMA, Takahiko
- 3F6-46** Synthesis and aggregation of novel 1-deazapurine derivatives having multiple hydrogen-bonding sites (Grad. Sch. Sci., Osaka Univ.) ○SEO, Shiori; HIRAO, Yasukazu; NISHIUCHI, Tomohiko; KUBO, Takashi

Chair: MAEDA, Chihiro (16 : 50~17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(3F6-48, 3F6-50, 3F6-51,

3F6-52, 3F6-53)

- 3F6-48*** Efficient synthesis of acetylacetone oligomers by oxidative coupling reactions (Grad. Sch. Eng., Hokkaido Univ.; PRESTO, JST) ○YOSHIOKA, Shota; UESAKA, Mitsuharu; KON, Soichiro; DOMOTO, Yuya; FUJITA, Makoto; INOKUMA, Yasuhide
- 3F6-50** Synthesis of an aliphatic polycarbonyl compound with 16 carbonyl groups (Sch. Eng., Hokkaido Univ.; PRESTO, JST) ○UESAKA, Mitsuharu; YOSHIOKA, Shota; INOKUMA, Yasuhide
- 3F6-51** Synthesis of *p*-Benzoquinone Bridged Macrocages and Their Redox Properties (Grad. Sch. Urban Environmental Sci., TMU) ○SATO, Kohei; INAGAKI, Yusuke; YAMAGUCHI, Kentaro; SETAKA, Wataru
- 3F6-52** Synthesis and Redox Properties of a Ruthenocene Bridged Macrocage (Grad. Sch. Urban Environmental Sci., TMU) ○TAKASHIMA, Hideaki; INAGAKI, Yusuke; YAMAGUCHI, Kentaro; SETAKA, Wataru

Room F7Fourth Building Independence Wing
D411

Physical Organic Chemistry Structures and Properties

Thursday, March 16, PM

Thiophene and Redox System

Chair: TAKEDA, Youhei (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(1F7-25, 1F7-26, 1F7-27, 1F7-28, 1F7-29, 1F7-30)

1F7-25 The structures and physical properties of chemically reduced quinoidal fused-oligosiloles (Grad. Sch. Eng., The Univ. of Tokyo; Grad. Sch. Sci., Nagoya Univ.; Grad. Sch. Sci., The Univ. of Tokyo) ○TAKANO, Ryo; SHINTANI, Ryo; FUKAZAWA, Aiko; YAMAGUCHI, Shigehiro; NAKABAYASHI, Koji; OHKOSHI, Shin-ichi; NOZAKI, Kyoko

1F7-26 Investigation on Interactions Between Occupied σ -Symmetric Orbitals in Polyselanylbenzene and its Redox Control (Grad. Sch. Sci., Eng., Saitama Univ.) ○SUZUKI, Takumi; FUJITA, Masahiro; FURUKAWA, Shunsuke; SAITO, Masaichi

1F7-27 Synthesis and Properties of Phenanthrene-fused Indacenes and Their Analogs (Grad. Sch. Sci. Tech., Gunma Univ.) ○MIYAUCHI, Hidenori; YAMADA, Michio; HIGASHIBAYASHI, Shuhei; KATO, Shin-ichiro; NAKAMURA, Yosuke

1F7-28 Experimental and Theoretical Studies of the Aromaticity of Tetraabenzoheptalene Dianion (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○OSHIMA, Hiroya; FUKAZAWA, Aiko; RÖHRICHT, Fynn; HERGES, Rainer; YAMAGUCHI, Shigehiro

1F7-29 Synthesis and Properties of Azulene Dimers Connected at the 1-Position (Sch. Sci., Kitasato Univ.) ○KATSUOKS, Yuka; TSUCHIYA, Takahiro; YOZA, Kenji; SATO, Hiroyasu; MAZAKI, Yasuhiro

1F7-30 Synthesis and properties of azulene trimer connected at the 1,2-position (Sch. Sci., Kitasato Univ.) ○HIGASHIBEPPOU, Makoto; TUCHIYA, Takahiro; MAZAKI, Yasuhiro

Chair: FUKAZAWA, Aiko (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(1F7-32, 1F7-33, 1F7-34, 1F7-35, 1F7-37)

1F7-32 Synthesis and Physicochemical Properties of Phosphorous-Containing D-A-D Type Dibenzo[*a,j*]Phenazine Derivatives (Sch. Eng., Osaka Univ.)

○KAIHARA, Takahito; OKAZAKI, Masato; TAKEDA, Youhei; MINAKATA, Satoshi

1F7-33 Synthesis and Physicochemical Properties of D-A-D-A Type π -Conjugated Macrocycle employing Dibenzo[*a,j*]phenazines as acceptors (Grad. Sch. Eng., Osaka Univ.) ○IZUMI, Saika; TAKEDA, Youhei; MINAKATA, Satoshi

1F7-34 Synthesis and Redox Properties of Octakis(arylselanyl)naphthalenes for the Creation of An Extended σ -Delocalized System (Fac. Sci., Saitama Univ.) ○MIBU, Soshi; FURUKAWA, Shunsuke; SAITO, Masaichi

1F7-35* Construction and characterization of accumulated azulene and metals (Sch. Sci., Kitasato Univ.; RIES, Hokkaido Univ.; Grad. Sch. Eng., Osaka Univ.) ○TSUCHIYA, Takahiro; KASHIWAGI, Itsuki; KAWANO, Reiya; YOSHINARI, Erika; NORO, Shin-ichiro; OHKUBO, Kei; MAZAKI, Yasuhiro

1F7-37 Preparation and Redox Properties of multi-electron donors with multiple units of benzindolocarbazole (BIC). (Fac. Sci., Hokkaido Univ.; Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) SUZUKI, Takanori; ○NOJO, Wataru; ISHIGAKI, Yusuke; KATOONO, Ryo

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

* 15:10-15:20: interval for laptop PC connection.(1F7-39, 1F7-41, 1F7-42, 1F7-43, 1F7-44)

1F7-39* Development of π -Conjugated Foldamers Consisting of Fused-Thiophene Unit (ICYS, NIMS) ○NAGURA, Kazuhiko; MOCHIZUKI, Chihiro; TAKEUCHI, Masayuki

1F7-41 Properties of Oxidized Sulfur-Bridged Cyclic Oligothiophene Derivatives (Grad. Sch. Sci., Kitasato Univ.) ○HONDA, Yoshiki; HASEGAWA, Masashi; MAZAKI, Yasuhiro

1F7-42 Synthesis and Properties of 3,3',5,5'-Tetrakis(3-thienyl)diphenylquinoxaline (Grad. Sch. Sci. Eng., TMU) ○FUJII, Ryotaro; HIRABAYASHI, Kazunori; SHIMIZU, Toshio; AKIYAMA, Kazuhiko; GOTOU, Kentarō; TAMASHITA, Ken-ichi; NISHIKAWA, Hiroyuki; SUGIURA, Ken-ichi

1F7-43 Synthesis and Properties of Tetrasilatetraphthalic[8]circulenes and Tetragermatetraphthalic[8]circulenes (Grad. Sch. Eng., Nagoya Univ.) ○AKAHORI, Shuhei; SERIZAWA, Yuma; KATO, Shohei; SAKAI, Hayato; HASOBE, Taku; MIYAKE, Yoshihiro; SHINOKUBO, Hirosaki

1F7-44 Synthesis and Properties of Heteroatom-bridged 1,1'-Binaphtho[2,1-b]thiophenes (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.)

○UEMATSU, Keisuke; NAKANO, Koji

Chair: NAKANO, Koji (16 : 30~17 : 30)

* 16:20-16:30: interval for laptop PC connection.(1F7-46, 1F7-48, 1F7-49, 1F7-50, 1F7-51)

1F7-46* Redox property of insulated cross-conjugated polythiophene (Molecular Design & Function Group, NIMS) ○INOUE, Ryota; SUGIYASU, Kazunori; TAKEUCHI, Masayuki

1F7-48 Development of insulated molecular wire with fine-tuned effective conjugation for elucidation of intramolecular hopping conduction in long oligothiophene (ISIR, Osaka Univ.) ○INOUE, Takuya; IE, Yutaka; OKAMOTO, Yuji; OHTO, Tatsuhiko; YAMADA, Ryo; TADA, Hirokazu; ASO, Yoshio

1F7-49* D-A Type Polymers Containing Thiazole-Fused Benzothiadiazole (ICR, Kyoto Univ.) ○NAKAMURA, Tomoya; ARAKAWA, Noriko; HORI, Megumi; ISHIKURA, Yasuhisa; MURATA, Michihisa; WAKAMIYA, Atsushi; MURATA, Yasujiro

1F7-50 Synthesis and Properties of π -Conjugated Materials Using Imidazole-Fused Benzothiadiazole as a Key Skeleton (ICR, Kyoto Univ.) ○OKAZAKI, Shuhei; MURATA, Michihisa; WAKAMIYA, Atsushi; MURATA, Yasujiro

1F7-51 External Stimuli- and Environment-responsive Properties of 5-Aminothiazoles (Fac. Eng., Gifu Univ.) ○YAMAGUCHI, Kirara; MURAI, Toshiaki

Chair: MURATA, Michihisa (17 : 40~18 : 40)

* 17:30-17:40: interval for laptop PC connection.(1F7-53, 1F7-54, 1F7-55, 1F7-56, 1F7-57, 1F7-58)

1F7-53* Analysis of Electronic Structure of π -Dimers of Conjugated Oligomer Radical Cations as Revealed by Nitronyl Nitroxide Spin Label (Grad. Sch. Sci. Eng., TMU; Grad. Sch. Sci., Osaka City Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○NISHINAGA, Tohru; KANZAKI, Yuki; SHIOMI, Daisuke; SUZUKI, Shuichi; OKADA, Keiji

1F7-54 Diradical Character and π -Dimerization Ability of Dications of π -Conjugated Oligomers Having Bulky Substituents at the Central Part (Grad. Sch. Sci. Eng., TMU; Sch. Sci., Kitasato Univ.) ○AKAHANE, Takahiro; TAKASE, Masayoshi; NOMURA, Kotohiro; MAZAKI, Yasuhiro; NISHINAGA, Tohru

1F7-55 Synthesis and development of new macrocyclic compounds consisting of pyrroles and thiophenes (Dep. Chem., Sch. Sci., Kyoto Univ.) ○KISE, Koki; KATO, Kenichi; TANAKA, Takayuki; OSUKA, Atsuhiro

1F7-56 Synthesis and Properties of P-Heterocyclic Biradical Dimers Directly Catenated by Thiophene Linker (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○UETA, Yasuhiro; MIKAMI, Koichi; ITO, Shigekazu

1F7-57 Synthesis and Properties of Thiophene-Fused Dithiaoctaphyrin (Grad. Sch. Eng., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○KUMAGAI, Atsushi; HIGASHINO, Tomohiro; IMAHORI, Hiroshi

1F7-58 Synthesis of Spiro-Type Heterasumanenes and Their Multistep Redox Properties (Fac. Sci., Saitama Univ.) ○YAMAGISHI, Ken; HAYASHI, Keisuke; FURUKAWA, Shunsuke; SAITO, Masaichi

Friday, March 17, AM

Macrocyclic Compounds

Chair: MATSUNO, Taisuke (9 : 00~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2F7-01, 2F7-02, 2F7-03, 2F7-04, 2F7-05)

2F7-01 Construction of the concentration-dependent higher-order aggregate based on novel π -compounds containing chiral oligonaphthalene and 1,3-diketones fragments (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.)

○OTA, Yoshihiro; YOSHIDA, Keishiro; YOSHICHIKA, Shoki; FUKATSU, Daisuke; OGAWA, Seitaro; KURAMOCHI, Kouji; MIYAFUJI, Hisashi; KAWABATA, Takeo; TSUBAKI, Kazunori

2F7-02 Synthesis and Properties of a new [12]CPP Derivative. (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.) SHOUDA, Takaaki; NAKANISHI, Kentaro; SASAMORI, Takahiro; KURAMOCHI, Kouji; TOKITOH, Norihito; ○TSUBAKI, Kazunori

2F7-03* Synthetic Study of [4]Cycloparaphenylene (ICR, Kyoto Univ.) ○KAYAHARA, Eiichi; YAMAGO, Shigeru

2F7-04* Synthetic Study of Cyclic Azulene Oligomers from Cyclic Platinum Complexes (ICR, Kyoto Univ.) ○LI, Wenjuan; KAYAHARA, Eiichi; YAMAGO, Shigeru

2F7-05** [4+2]Cycloaddition Reaction of Cycloparaphenylenes with 1,2,4-Triazoline-3,5-dione (ICR, Kyoto Univ.) ○QU, Rui; KAYAHARA, Eiichi; YAMAGO, Shigeru

Chair: KAYAHARA, Eiichi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2F7-08, 2F7-09, 2F7-10, 2F7-11, 2F7-12)

2F7-08 Synthesis and chiroptical properties of dimeric biselenophene embedded in chiral [2.2]paracyclophanes. (Grad. Sch. Sci., Kitasato Univ.) ○KOBAYAKAWA, Kosuke; HASEGAWA, Masashi; MAZAKI, Yasuhiro

2F7-09 Synthesis and properties of unsubstituted π -expanded macrocyclic oligothiophene 6- and 9-mers (Grad. Sch. Fac. Env. and Info. Sci., Yokohama

Natl. Univ.) ○TAKASHIKA, Masataka; OTANI, Hiroyuki; MAZAKI, Yasuhiro; IYODA, Masahiko

2F7-10 Unique vapochromic behavior of phenyl-substituted π -expanded macrocyclic oligothiophene 6mer (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○SUZUKI, Yoshihiro; OTANI, Hiroyuki; IYODA, Masahiko

2F7-11 Facile synthesis of tris(benzimidazole) macrocycles via multistep oxidation mediated by copper(II) acetate and their properties (Grad. Sch. Sci., The Univ. of Tokyo) ○TASHIRO, Shohei; UMEKI, Tsutomu; KUBOTA, Ryou; SHIONOYA, Mitsuhiko

Synthesis and Properties

2F7-12** Elucidation of the Through-Space Spin Delocalization Mode of Phenalenyl-Fused [3.3.3]Propellane (Grad. Sch. Sci., Osaka Univ.) ○KODAMA, Takuya; HIRAO, Yasukazu; NISHIUCHI, Tomohiko; KUBO, Takashi

Chair: HASEGAWA, Masashi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2F7-15, 2F7-16, 2F7-17, 2F7-18, 2F7-19, 2F7-20)

2F7-15 Synthesis, Structures, and Photophysical Properties of Functionalized Cycloparaphenylenes via Rhodium-Catalyzed Alkyne Cyclotrimerization (Sch. Mater. & Chem. Tech., Tokyo Tech.; Sch. Sci., Tokyo Tech.) ○NISHIGAKI, Shuhei; FUKUI, Miho; SUGIYAMA, Haruki; UEKUSA, Hidehiro; SHIBATA, Yu; TANAKA, Ken

2F7-16 Synthesis of a Multi-Functionalized [8]Cycloparaphenylene via Rhodium-Catalyzed Alkyne Cyclotrimerization (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HAYASE, Norihiko; MIYAUCHI, Yuuta; AIDA, Yukimasa; SHIBATA, Yu; TANAKA, Ken

2F7-17 Synthesis and Structures of Nitrogen-embedded, π -Extended [n] Cyclo-para-phenylenes ($n = 12, 16, 20$) (Grad. Sch. Sci., Tohoku Univ.; Grad. Sch. Sci., The Univ. of Tokyo; WPI-AIMR, Tohoku Univ.; ERATO, JST; Nanyang Tech. Univ.) ○FUJITA, Masahiro; IKEMOTO, Koki; TOO, Pei Chui; TNAY, Ya Lin; SATO, Sota; CHIBA, Shunsuke; ISOBE, Hiroyuki

2F7-18 Topological poly-condensation of Asymmetric Monomers (Lab. Chem. Life Sci., Tokyo Tech.) ○NAITOU, Yuuki; YAMAMOTO, Kimihisa; IMAOKA, Takane

2F7-19[#] Host-Guest Complexations of [10]Cycloparaphenylene and its Derivatives with Fullerene Dimer (ICR, Kyoto Univ.) ○SUN, Liansheng; KAISE, Misaki; KAYAHARA, Eiichi; MATSUO, Yutaka; YAMAGO, Shigeru

2F7-20 Synthesis and Properties of Nitrogen-containing Macrocycles Based on Carbazole Units (Fac. of Sci., Okayama Univ. of Sci.) ○YAMAUCHI, Tomokazu; IWANAGA, Tetsuo; TOYOTA, Shinji; SUZUKI, Shuichi; OKADA, Keiji

Friday, March 17, PM

Chair: OKADA, Keiji (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2F7-28, 2F7-31, 2F7-33)

2F7-28[#] Young Scholar Lectures of CSJ Development of Functional Materials and Reactions Based on Open-Shell π -Conjugated Species (Grad. Sch. Eng., Kyoto Univ.) ○SHIMIZU, Akihiro

Organic Radicals

2F7-31** Synthesis and Electronic Properties of Carborane Derivatives Containing π -Conjugated Organic Molecular Units (Grad. Sch. Eng., Kyoto Univ.) ○UEBE, Masashi; KAZAMA, Tatsuya; ITO, Akihiro

2F7-33 Research on synthesis, crystallization and reactivity of 'sigmalene' having singlet biradical character (Grad. Sch. Sci., Osaka Univ.) ○SAHARA, Keisuke; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi

Chair: SHIMIZU, Akihiro (17 : 00~17 : 40)

* 16:50-17:00: interval for laptop PC connection.(2F7-49, 2F7-51, 2F7-52)

2F7-49** Through-Space Interactions between Radical Electrons in Helical Molecules (Sch. Eng. Sci., Osaka Univ.) ○TAKAMUKU, Shota; NAKANO, Masayoshi; KERTESZ, Miklos

2F7-51 Synthesis and reactive property of 9-(9-anthryl)-fluorenylradical (Grad. Sch. Sci., Osaka Univ.) ○TAKADA, Aya; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi

2F7-52 Synthesis and Properties of Stable Phosphaanthracenes Bearing Fluorinated Substituents (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KOSHINO, Kota; MIKAMI, Koichi; ITO, Shigezaku

Saturday, March 18, AM

Photophysical Properties

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

* 8:50-9:00: interval for laptop PC connection.(3F7-01, 3F7-02, 3F7-03, 3F7-04, 3F7-05, 3F7-06)

3F7-01 Synthesis and chiroptical properties of chiral π -conjugated spiro compounds (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.)

○TAKASE, Ko; NAKANO, Koji

3F7-02 Synthesis and Optical Properties of Ladder-type π -Conjugated Molecules with a Phospholo[3,2-*b*]pyrrole Framework (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○MORISHITA, Suzuho; NAKANO, Kouji

3F7-03[#] Effect of Aryl Groups at 7-Position on the Properties of Phosphadithienorhodamines (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; Hamamatsu Photonics K.K.) ○FUKAZAWA, Aiko; NAMBA, Yasumasa; SUZUKI, Kengo; YAMAGUCHI, Shigehiro

3F7-04 pH-Responsive NIR Fluorescence of an Unsymmetrically Substituted Phosphadithienorhodamine (WPI-ITbM, Nagoya Univ.; Hamamatsu Photonics K.K.) ○NAMBA, Yasumasa; FUKAZAWA, Aiko; SUZUKI, Kengo; YAMAGUCHI, Shigehiro

3F7-05 Theoretical study of optical spectra of a rhodamine analogue by a hybrid method between quantum chemistry and statistical mechanics (Sch. Sci., Nagoya Univ.) ○INAI, Naoto; NAMBA, Yasumasa; FUKAZAWA, Aiko; YAMAGUCHI, Shigehiro; YOKOGAWA, Daisuke; IRLA, Stephan

3F7-06 Synthesis, and Optical and Electrochemical Properties of Julolidine-Structural β -Carboline Derivative (Grad. Sch. Eng., Hiroshima Univ.) ○ENOKI, Toshiaki; OYAMA, Yousuke; OHSHITA, Joji

Chair: YAMAGUCHI, Shigehiro (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3F7-08, 3F7-09, 3F7-10, 3F7-11, 3F7-12, 3F7-13)

3F7-08 Synthesis and properties of phosphorus-substituted λ^5 -phosphinines (Grad. Sch. Sci., Eng., Ehime Univ.) ○DAM, Thi Huyen Trang; SHIMAHARA, Kiyoka; OHTA, Hidetoshi; HAYASHI, Minoru

3F7-09 Synthesis and properties of 4-aryl- λ^5 -phosphinines (Grad. Sch. Sci., Eng., Ehime Univ.) ○HASHIMOTO, Naoki; SHIMAHARA, Kiyoka; OHTA, Hidetoshi; HAYASHI, Minoru

3F7-10 Preparation and Properties of Dialkoxyppyridinoquininoxalinedione (IMRAM, Tohoku Univ.) ○TAKEDA, Takashi; IKEMOTO, Tomohiro; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

3F7-11 Structure and Photochemical Properties of Tetrafluorenylcyclophane (Grad. Sch. Eng., Osaka Univ.) ○FUJIMOTO, Hayato; TANAKA, Takahiro; MORIUCHI, Toshiyuki; AMAYA, Toru

3F7-12 Synthesis and Characterization of Chiral Cyclic Phenylenediamine derivatives (Grad. Sch. Eng., Osaka Univ.) ○TAYANO, Yoshiki; HIRANO, Misato; MORIUCHI, Toshiyuki

3F7-13[#] Construction of Pentaazaphenylene Rings Having Various Substituents and Their Optical Properties (Grad. Sch. Eng., Kyoto Univ.) ○WATANABE, Hiroyuki; TANAKA, Kazuo; CHUJO, Yoshiki

Chair: MORIUCHI, Toshiyuki (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3F7-15, 3F7-16, 3F7-17, 3F7-18, 3F7-19, 3F7-20)

3F7-15 Construction of photo-induced chain-reaction systems based on the acridine-anthranol coupled molecule (Grad. Sch. Sci., Osaka Univ.) ○NAGAMACHI, Nobuhiro; HIRAO, Yasukazu; NISHIUCHI, Tomohiko; KUBO, Takashi

3F7-16 Synthesis and optical properties of cumulene-based molecule for singlet fission (Grad. Sch. Sci., Osaka Univ.; Grad. Sch. Sci., Eng., Ehime Univ.; IFMRI, AIST) ○IHARA, Keiji; HIRAO, Yasukazu; NISHIUCHI, Tomohiko; ISHIBASHI, Yukihide; ASAHI, Tsuyoshi; KAMADA, Kenji; KUBO, Takashi

3F7-17 Synthesis and Properties of Cyclophanes Bearing Dibenzofuran Bridged by Silicon-containing Linkages (Grad. Sch. Sci. Tech., Gunma Univ.) ○ISONO, Yuta; KATO, Shin-ichiro; NAKAMURA, Yosuke

3F7-18 Synthesis and Properties of Phenanthrene-fused Dehydro[28]- and [42] annulenes Possessing Hexayne Linkages (Grad. Sch. Sci. Tech., Gunma Univ.) ○KUMAGAI, Ryo; KATO, Shin-ichiro; NAKAMURA, Yosuke

3F7-19 Synthesis of a Si-Dithienorhodamine Dye with NIR Fluorescence (Sch. Sci., Nagoya Univ.) ○KIMURA, Nao; FUKAZAWA, Aiko; NAMBA, Yasumasa; YAMAGUCHI, Shigehiro; SUZUKI, Kengo

3F7-20 Synthesis of Phospha-Fluorescein Dyes Based on Iterative Arylation From Aryldichlorophosphines (Grad. Sch. Sci., Nagoya Univ.) ○USUBA, Junichi; FUKAZAWA, Aiko; SHIGEHIO, Yamaguchi

Saturday, March 18, PM

Chair: UMEYAMA, Tomokazu (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3F7-28, 3F7-30, 3F7-31, 3F7-32, 3F7-33)

3F7-28** A Molecule That Becomes Dark Color When Its Crystals Are Ground (Grad. Sch. Eng., The Univ. of Tokyo; USTC) ○MATSUO, Yutaka; SUZUKI, Tsuyoshi; OKADA, Hiroshi; NAKAGAWA, Takafumi

3F7-30 Synthesis and properties of dicyanoethylene derivatives with solid-state emission (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○SHINOZAKI, Junichi; MAEDA, Hajime; SEGI, Masahito; FURUYAMA, Taniyuki

3F7-31 Synthesis and Properties of Aluminum Complexes with π -Extended Quinolinal Ligands (ICR, Kyoto Univ.) ○TSUKAO, Masahiro; MURATA, Michihisa; WAKAMIYA, Atsushi; MURATA, Yasujiro

3F7-32[#] Benzoin Derived Ladder-Type π -Conjugated Molecules Containing B-N Coordination; Synthesis and Their Photophysical Properties (Graduate School of Science, Osaka University) ○RAHMAYANTI, Yosephin Dewiani;

TANI, Yosuke; OGAWA, Takuji
3F7-33 Syntheses, Properties, and Reactivity of Accumulative Tetrasubstituted Phenanthrene Derivatives (Grad. Sch. Eng., Osaka Univ.) KONISHI, Akihito; MORINAGA, Atsushi; YASUDA, Makoto

Chair: MURATA, Yasujiro (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(3F7-35, 3F7-37, 3F7-38, 3F7-40)

3F7-35** Synthesis, structure, and photophysical property of tris(2-hydroxyphenyl)triazasumanene (Grad. Sch. Eng., Osaka Univ.) OKAEMMATI, Patcharin; HIGASHIBAYASHI, Shuhei; YAKIYAMA, Yumi; OHTSU, Hiroyoshi; KAWANO, Masaki; SAKURAI, Hidehiro

3F7-37** Study of excited state intramolecular proton transfer of tris(2-hydroxyphenyl)triazasumanene by TD-DFT calculation (Grad. Sch. Eng., Osaka Univ.) OSARTYOUNGKUL, Sitanan; KAEWMATI, Patcharin; EHARA, Masahiro; SAKURAI, Hidehiro

Nonplanar Conjugated Compounds

3F7-38** Molecular location recognizing approach by the anisotropic magnetic property of an endohedral metallofullerene Ce@C₈₂ (WPI-iCeMS, Kyoto Univ.) OTAKANO, Yuta; TASHITA, Ryo; SUZUKI, Mitsuaki; NAGASE, Shigeru; IMAHORI, Hiroshi; AKASAKA, Takeshi

3F7-40 Synthesis of Triple Helicene Cage (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) O MATSUSHIMA, Tomoya; WATANABE, Soichiro

Chair: TOBE, Yoshito (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(3F7-42, 3F7-45, 3F7-47)

3F7-42 CSJ Award for Young Chemists Systematic Synthesis and Properties of Warped Aromatic Hydrocarbons (Grad. Sch. Sci., Nagoya Univ.; ERATO, JST) OSEGAWA, Yasutomo

3F7-45* Properties and reactivities of azabuckybowls (Grad. Sch. Eng., Nagoya Univ.) OYOKOI, Hiroki; HIROTO, Satoru; SHINOKUBO, Hiroshi

3F7-47 Evaluation of Bond Polarization Using H₂O inside Fullerene Cages as an NMR Probe (ICR, Kyoto Univ.) O HASHIKAWA, Yoshifumi; MURATA, Michihisa; WAKAMIYA, Atsushi; MURATA, Yasujiro

Chair: HIROTO, Satoru (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(3F7-49, 3F7-51, 3F7-53)

3F7-49** Syntheses of sumanene fused-aromatic and heteroaromatic compounds (Grad. Sch. Eng., Osaka Univ.) ONGAMSOMPRESERT, Niti; HIGASHIBAYASHI, Shuhei; YAKIYAMA, Yumi; SAKURAI, Hidehiro

3F7-51** Synthesis of graphene molecules and graphene nanoribbons with zigzag edges (MPIP) ONARITA, Akimitsu; DUMSLAFF, Tim; WANG, Xiao-ye; CHEN, Qiang; HU, Yunbin; RUFFIEUX, Pascal; FASEL, Roman; FENG, Xinliang; MUELLEN, Klaus

3F7-53* Synthesis of 1,8-[n]-Cyclocarbazolones (CIMoS, IMS) YAMAMOTO, Koji; PANDIT, Palash; OHIGASHIBAYASHI, Shuhei

Chair: SEGAWA, Yasutomo (18 : 10~19 : 00)

* 18:00-18:10: interval for laptop PC connection.(3F7-56, 3F7-57, 3F7-58, 3F7-59, 3F7-60)

3F7-56 Syntheses and Properties of Sumanene Hexacarboxylic Acid Derivatives (Grad. Sch. Eng., Osaka Univ.) OTODA, Hideaki; ISHIWARI, Fumitaka; SHOJI, Yoshiaki; YAKIYAMA, Yumi; FUKUSHIMA, Takanori; SAKURAI, Hidehiro

3F7-57 Synthesis of Buckybowls Having C₇₀ Partial Structure Introducing Alkoxy Group (Grad. Sch. Eng., Osaka Univ.) OHISHIKAWA, Shotaro; YAKIYAMA, Yumi; SAKURAI, Hidehiro

3F7-58 Sumanenyl Mono-, Di- and Tri-Cations (Grad. Sch. Eng., Osaka Univ.) OHIGASHI, Yuya; YAKIYAMA, Yumi; SAKURAI, Hidehiro

3F7-59 Synthesis of Hexapole Helicenes by [2+2+2] Cyclization Reaction of [5]Helicene Derivative and its Physical Properties (Grad. Sch. Sci., Osaka Pref. Univ.) OHOSOKAWA, Tomoka; TSURUSAKI, Akihiro; KAMIKAWA, Ken

3F7-60 Thermal Isomerization Behavior of the Hexapole Helicene with Six [5] Helicene Subunits (Grad. Sch. Sci., Osaka Pref. Univ.) OHOSOKAWA, Tomoka; TSURUSAKI, Akihiro; KAMIKAWA, Ken

Sunday, March 19, AM

Chair: FURUKAWA, Shunsuke (9 : 00~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4F7-01, 4F7-02, 4F7-03, 4F7-04, 4F7-05, 4F7-06)

4F7-01 Synthesis, Structures, and Reactivity of Corannulene-Helicene Hybrids (Grad. Sch. Sci., Nagoya Univ.; Boston College; WPI-ITbM, Nagoya Univ.; ERATO, JST) OFUJIKAWA, Takao; PREDÁ, Dorin V.; SEGAWA, Yasutomo; ITAMI, Kenichiro; SCOTT, Lawrence T.

4F7-02 Synthesis and structure of a highly warped propeller-shaped π -conjugated hydrocarbon (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) OKAWAI, Kazuya; SEGAWA, Yasutomo; ITAMI, Kenichiro

4F7-03 Synthesis, structure, and reactivity of a cylinder-shaped cyclo[12]

orthophenylene[6]ethynylene (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) OFUSHIMI, Masako; MATSUI, Katsuma; SEGAWA, Yasutomo; ITAMI, Kenichiro

4F7-04 Functionalization at the internal carbon of sumanene framework (Grad. Sch. Eng., Osaka Univ.) OYOSHIDA, Yuki; NGAMSOMPRESERT, Niti; YAKIYAMA, Yumi; SAKURAI, Hidehiro

4F7-05 Syntheses of sumanene derivatives using Friedel-Crafts double cycloacylation and the reaction with C₆₀ (Sch. Eng., Osaka Univ.) OOYA, Akinobu; YAKIYAMA, Yumi; IKUMA, Naohiko; SAKURAI, Hidehiro

4F7-06 Synthesis, Structure, and Conformational Behavior of Novel Helical C₃-Symmetric Aromatic Compounds (Lab. Chem. Life Sci., Tokyo Tech.) OSHIMIZU, Yuki; SHOJI, Yoshiaki; FUKUSHIMA, Takanori

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

* 10:00-10:10: interval for laptop PC connection.(4F7-08, 4F7-11, 4F7-12, 4F7-13)

4F7-08 CSJ Award for Young Chemists** Innovative Synthesis and Functions of Curved- π Conjugated Molecules (Grad. Sch. Eng., Nagoya Univ.) OHIROTO, Satoru

4F7-11 Synthesis and Properties of Covalent Organic Frameworks Containing Bowl-Shaped Trichalcogenasumanenes as π -Frameworks (Grad. Sch. Sci., Eng., Saitama Univ.) OHAYASHI, Keisuke; FURUKAWA, Shunsuke; SAITO, Masaichi

4F7-12 Effects of Substituents on Out-of-Plane Anisotropy of Triphosphasumanene Trichalcogenides (Grad. Sch. Sci., Eng., Saitama Univ.; Coll. of Liberal Arts, ICU; Grad. Sch. Sci., The Univ. of Tokyo) OSUDA, Yuki; FURUKAWA, Shunsuke; KOBAYASHI, Junji; KAWASHIMA, Takayuki; SAITO, Masaichi

4F7-13 Chiral Macrocycles with Twisted π -System as a Circularly Polarized Luminescence Material (Grad. Sch. Eng., Kyoto Univ.) MIKI, Koji; ONODA, Takeru; GON, Masayuki; TANAKA, Kazuo; CHUJO, Yoshiaki; OHE, Kouichi

Acene

Chair: NISHIUCHI, Tomohiko (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4F7-15, 4F7-16, 4F7-18, 4F7-19, 4F7-20)

4F7-15 Synthesis and Structures of 1,8-Anthracene-Vinylene Macrocyclic Oligomers (Fac. of Sci., Okayama Univ. of Sci.) OINOUE, Masataka; IWANAGA, Tetsuo; TOYOTA, Shinji

4F7-16* Synthesis of Dibenzoanthradifuran Derivatives and Their Application to Organic Field-Effect Transistors (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIIS, Okayama Univ.) OHYODO, Keita; MORI, Hiroki; NISHIHARA, Yasushi

4F7-18 Synthesis of Sulfur-Containing Polycyclic Aromatic Compound Consisting of Nine Fused Rings and Their Application to Organic Field-Effect Transistors (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIIS, Okayama Univ.) OTOYAMA, Ryota; HYODO, Keita; MORI, Hiroki; NISHIHARA, Yasushi

4F7-19 Synthesis and OFET Characteristics of Bisbenzothienobenzodithiophene and Its Alkylated Derivatives (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIIS, Okayama Univ.) ONISHINAGA, Shuhei; MORI, Hiroki; NISHIHARA, Yasushi

4F7-20 Synthesis and Properties of 2,4,5,7,9,10-Hexaethynylpyrene Derivatives Bearing Various Substituents (Grad. Sch. Sci. Techn., Gunma Univ.) OIRISAWA, Ken-ichi; KATO, Shin-ichiro; NAKAMURA, Yosuke

Sunday, March 19, PM

Chair: NISHIHARA, Yasushi (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(4F7-28, 4F7-29, 4F7-30, 4F7-32, 4F7-33)

4F7-28 The Suzuki-Miyaura Coupling Reaction of Bipyrenol and Chiroptical Properties of the Aryl Substituted Bipyrenols (Grad. Sch. Sci. Eng., TMU) OSAWATAISHI, Megumi; IMAI, Yoshitane; SUGIURA, Ken-ichi

4F7-29 Synthetic and Photophysical Studies on 2-methylpyrene and Its Oligomers (Grad. Sch. Sci. Eng., TMU) OKAMOTO, Hisato; HIRABAYASHI, Kazunori; SHIMIZU, Toshio; OKUDA, Koji; IMAI, Yoshitane; GOTO, Kenta; SUGIURA, Ken-ichi

4F7-30* Properties and reactivity of hexabenzocoronene containing dicyanomethyl groups (Grad. Sch. Eng., Nagoya Univ.) OODA, Kazuma; HIROTO, Satoru; SHINOKUBO, Hiroshi

4F7-32 Synthesis of 2,7-diazapyrenes by reductive aromatization of naphthalene diimides (Grad. Sch. Eng., Nagoya Univ.) ONAKAZATO, Takumi; KAMATSUKA, Takuto; MIYAKE, Yoshihiro; SHINOKUBO, Hiroshi

4F7-33 Synthesis 2,9-diazaperopylenes by reductive aromatization of perylene diimides (Sch. Eng., Nagoya Univ.) ONAKAMURA, Yasutaka; KAMATSUKA, Takuto; MIYAKE, Yoshihiro; SHINOKUBO, Hiroshi

Chair: MIYAKE, Yoshihiro (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(4F7-35, 4F7-36, 4F7-38, 4F7-39, 4F7-40)

4F7-35 Precise Synthesis of Graphene Nanoribbons by Annulative π -Extension Polymerization Using Silicon-bridged Aromatics (Grad. Sch. Sci.,

Nagoya Univ.; WPI-ITbM, Nagoya Univ.; IAE, Kyoto Univ.; ERATO, JST)
 ○YANO, Yuuta; MITOMA, Nobuhiko; ITO, Hideto; MIYAUCHI, Yuhei;
 ITAMI, Kenichiro

4F7-36* Surface assisted bottom-up synthesis of width-controlled graphene nanoribbon (IAE, Kyoto Univ.) ○KOJIMA, Takahiro; SHAOTANG, Song; NAKAE, Takahiro; SAKAGUCHI, Hiroshi

4F7-38[#] Stereoisomerism, crystal structures, and dynamics of belt-shaped cyclonaphthylenes (Fac. Sci., The Univ. of Tokyo) ○SUN, Zhe; SUEENAGA, Takuya; SARKAR, Parantap; KOTANI, Motoko; SATO, Sota; ISOBE, Hiroyuki

4F7-39 Synthesis and Properties of Dibenzo[*a,f*]pentalene (Grad. Sch. Eng., Osaka Univ.) KONISHI, Akihito; ○OKADA, Yui; NAKANO, Motohiro; SUGISAKI, Kenji; SATO, Kazunobu; TAKUI, Takeji; YASUDA, Makoto

4F7-40 Synthesis and Properties of Dinaphtho[*a,f*]pentalene (Grad. Sch. Eng., Osaka Univ.) ○KONISHI, Akihito; OKADA, Yui; YASUDA, Makoto

Chair: KONISHI, Akihito (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(4F7-42, 4F7-43, 4F7-44, 4F7-45, 4F7-46)

4F7-42 Novel Anthracene-Congested Molecules: Study on Radial Pi-Cluster Molecules (Grad. Sch. Sci., Osaka Univ.) ○SHIMIZU, Kazuto; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi

4F7-43 Catalytic Double Carbonylative Cyclization of Benzoin En Route to Fused π -Conjugated molecules; Synthesis and Properties (Grad. Sch. Sci., Osaka Univ.) ○TANI, Yosuke; OGAWA, Takuji

4F7-44 Synthesis and Properties of Benz[*q*]lullazine (Grad. Sch. Sci., Eng., Ehime Univ.) ○MEHARA, Takuya; TAKASE, Masayoshi; MORI, Shigeki; OKUJIMA, Tetsuo; UNO, Hidemitsu

4F7-45 Synthesis and spectroscopic properties of linear anthracene-diacetylene oligomers (Sch. Sci., Tokyo Tech.) ○NAGAOKA, Maiko; TSURUMAKI, Eiji; TOYOTA, Shinji

4F7-46* Formation Dynamics of π -Conjugated Molecule-Amine Composites via Click Reaction (NIMS) ○TAKAI, Atsuro; TAKEUCHI, Masayuki

Room F8

Fourth Building Independence Wing
D412

Physical Organic Chemistry Structures and Properties

Thursday, March 16, PM

Self-assembly

Chair: TAKAHASHI, Kohei (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(1F8-25, 1F8-27, 1F8-28, 1F8-29, 1F8-30)

1F8-25** Self-assembly Process of a Pd₁₂L₂₄ Sphere Complex (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KAI, Shumpei; SHIGETA, Tarō; KOJIMA, Tatsuo; HIRAO, Shuichi

1F8-27 Derivatization of a peptide coordination network based on structural flexibility of P₁₁ helix (Grad. Sch. Eng., The Univ. of Tokyo) ○YAMAGAMI, Motoya; AKINAGA, Shuji; SAWADA, Tomohisa; FUJITA, Makoto

1F8-28 Peptide Coordination Networks with giant 2.8-nm-sized channels (Grad. Sch. Eng., The Univ. of Tokyo) ○AKINAGA, Shuji; SAWADA, Tomohisa; FUJITA, Makoto

1F8-29 Packing control of M₆L₂₄ crystals by co-crystallization (Grad. Sch. Eng., The Univ. of Tokyo) ○NANJO, Hikaru; FUJITA, Daishi; FUJITA, Makoto

1F8-30 Encapsulation of natural protein into M₁₂L₂₄ spherical complex (Grad. Sch. Eng., The Univ. of Tokyo) ○SUZUKI, Ryoto; FUJITA, Daishi; FUJITA, Makoto

Chair: SAWADA, Tomohisa (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(1F8-32, 1F8-34, 1F8-35, 1F8-36, 1F8-37)

1F8-32** Artificial synthetic monodispersed aggregate with highest decomposition temperature over 150 °C in water (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○ZHAN, Yiyang; KOJIMA, Tatsuo; HIRAO, Shuichi

1F8-34 Thienylene-bridged Spiroborate Nanocages: Preparation and Evaluation of Their Aggregation Behavior (Konan Univ.) ○MATSUMOTO, Tomohiro; MASUDA, Yuhki; KATAGIRI, Kosuke; KAWAHATA, Masatoshi; DANJO, Hiroshi; YAMAGUCHI, Kentaro

1F8-35 Construction of Spiroborate Structures Containing N-Heterocycles (Konan Univ.) ○NAKAGAWA, Toshi; DANJO, Hiroshi

1F8-36 Construction of a Macrocyclic Boronic Ester Containing Tellurophene Moieties and its Emission Behavior (Sch. Sci., Tokyo Tech.) ○SHIMO, Shunsuke; OCHIAI, Junichi; TAKAHASHI, Kohei; DELGADO, William;

RIVARD, Eric; IWASAWA, Nobuharu

1F8-37 Synthesis and application of box-shaped boronate cage bearing perylene moieties (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech.) ○KUMAGAI, Sumito; SATO, Hiroki; ONO, Kousuke; TAKAHASHI, Kohei; IWASAWA, Nobuharu

Molecular Recognition • Assemblies

Chair: DANJO, Hiroshi (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(1F8-39, 1F8-40, 1F8-41, 1F8-42, 1F8-43)

1F8-39 Synthesis of Novel β -Cyclodextrin Dimers and Their Inclusion Ability towards Long-chain Fatty Acid Esters (Grad. Sch. Eng., Osaka Univ.) ○ITO, Shogo; KIDA, Toshiyuki

1F8-40 Development of Pyridine-Acetylene-Phenol Cage-Type Hosts Recognizing Saccharides by Three-Dimensional Multiple Hydrogen Bonding (Grad. Sch. Pharm. Sci., Univ. of Toyama) ○YONEDA, Tetsuhiro; OHISHI, Yuki; ABE, Hajime; INOUE, Masahiko

1F8-41 Development of Pyridine-Acetylene-Phenol Macrocycles Containing Chiral BINOL in their Main Chains. (Fac. Pharm. Sci., Univ. of Toyama) ○MURASE, Mikino; OHISHI, Yuki; ABE, Hajime; INOUE, Masahiko

1F8-42 Saccharide Recognition and Chiral Memory Effects of Pyridine-Acetylene-Phenol Helices Stapled by Alkene-Metathesis Reaction at their Side Chains (Grad. Sch. Pharm. Sci., Univ. of Toyama) ○SATO, Chihiro; OHISHI, Yuki; ABE, Hajime; INOUE, Masahiko

1F8-43** Synthesis of water-soluble triazinophanes and evaluation of their molecular properties (Fac. Sci., Fukuoka Univ.) ○KUSANO, Shuhei; KONISHI, Sae; HAYASHIDA, Osamu

Chair: ABE, Hajime (16 : 30~17 : 30)

* 16:20-16:30: interval for laptop PC connection.(1F8-46, 1F8-47, 1F8-48, 1F8-49, 1F8-50)

1F8-46 Synthesis of Cyclophane Tetramers Bearing a Dabsyl Moiety and Their Molecular Recognition Toward Fluorescence Guests (Fac. Sci., Fukuoka Univ.) ○NADA, Chihiro; KUSANO, Syuhei; HAYASHIDA, Osamu

1F8-47 Synthesis and Reduction-responsive Degradation of Cystein-Linked Cyclophane Dimer Having Two Rhodamine Moieties (Fac. Sci., Fukuoka Univ.) NISHINO, Kana; KUSANO, Shuhei; ○HAYASHIDA, Osamu

1F8-48 Synthesis of a novel pyrene boronic acid and its fluorescence behavior in the presence of sugars (Fac. Life Med. Sci., Doshisha Univ.) ○HAMAGUCHI, Naoto; TANIGUCHI, Yousuke; OHTA, Tetsuo; OE, Yohei

1F8-49 Fluorescence Turn-On Sensing of Oligosaccharide by Rhodamine-Curdlan Conjugates in Aqueous Media (Grad. Sch. Eng., Osaka Univ.) ○NORIKUNI, Masahiro; FUKUHARA, Gaku; MORI, Tadashi; KIDA, Toshiyuki

1F8-50* Controlled Dynamic Hybridization of Glucans with Water-soluble Polythiophene (Grad. Sch. Eng., Osaka Univ.; University of Victoria; Sichuan University) ○FUKUHARA, Gaku; IMAI, Mami; FUENTEALBA, Denis; ISHIDA, Yuki; KUROHARA, Hiroki; YANG, Cheng; MORI, Tadashi; UYAMA, Hiroshi; BOHNE, Cornelia; INOUE, Yoshihisa

Chair: FUKUHARA, Gaku (17 : 40~18 : 30)

* 17:30-17:40: interval for laptop PC connection.(1F8-53, 1F8-54, 1F8-55, 1F8-56, 1F8-57)

1F8-53 Carboxylic Acid Recognition of a Diamidine Having a Tetraphenylethylene Unit (KIT) ○EYOB ASHENAFI, Tessema; KUSUKAWA, Takahiro

1F8-54 Phosphonic Acid Recognition of an Ethyl-substituted Diamidine Having an Anthracene Unit (KIT) ○HARUMOTO, Yuya; KUSUKAWA, Takahiro

1F8-55 Carboxylic Acid and Phosphonic acid Recognition of a Diguandine Having an Anthracene Unit (KIT) ○MURA, Ryosuke; KUSUKAWA, Takahiro

1F8-56 Studies on intermolecular interaction between deltaarene and viologen (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○FUKUMITSU, Tomoki; IKEDA, Kazuki; KAWAMOTO, Takuji; KAMIMURA, Akio

Anion Recognition

1F8-57 Anion Recognition of Urea Derivative Based on 1,8-Diphenyl-naphthalene Scaffold (Grad. Sch. Med., Eng., Univ. of Yamanashi) NINAGAWA, Hayato; ○TAKAHASHI, Masaki; OBATA, Makoto

Friday, March 17, AM

Molecular Recognition • Assemblies

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

* 8:50-9:00: interval for laptop PC connection.(2F8-01, 2F8-02, 2F8-03, 2F8-05, 2F8-06)

2F8-01 Formation of Various Kinds of Stacking Structures Using 18-Crown-6-like Nickel(II) Metallohosts Having Different Bridging Scaffold (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; AIST) ○NAKANO, Masato;

SAKATA, Yoko; TSUZUKI, Seiji; AKINE, Shigehisa

- 2F8-02** Regioselective Encapsulation and Separation of Multiadducts of C₆₀ by Using a Tetrahedral Capsule (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○HASEGAWA, Toru; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 2F8-03[#]** Pt Cluster Catalyst with Molecular-shape Selectivity Utilizing Dendritic Nanocavity (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO; PRESTO, JST) ○KATO, Yuto; KAMBE, Tetsuya; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 2F8-05** Specific elution behavior of cyclic nickel porphyrin dimer linked via 2, 2'-bipyridine on chemically modified silica gel chromatography (Grad. Sch. Chem. Sci. Technol., TUS) ○KATAGAMI, Yuta; SATAKE, Akiharu
- 2F8-06[#]** Capsule-bowl conversion mediated by guest encapsulation/reaction (Grad. Sch. Eng., The Univ. of Tokyo) ○WANG, Shitao; SAWADA, Tomohisa; FUJITA, Makoto

Chair: YAMAMURA, Masaki (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(2F8-08, 2F8-10, 2F8-11, 2F8-12)
- 2F8-08*** Direct investigation of Pillar[n]arene-guest complex formation by atomic resolution AFM (Inst. Sci. Eng., Kanazawa Univ.; PRESTO, JST) ○ASAKAWA, Hitoshi; INADA, Natsumi; SAWADA, Yuta; TAKASHIMA, Shu; OGOSHI, Tomoki; FUKUMA, Takeshi
- 2F8-10** Construction of functional nano-spaces based on the precise arrangement of amino acids in a channel-type molecular crystal (Grad. Sch. Sci., The Univ. of Tokyo) ○NAKATA, Kousuke; TASHIRO, Shohei; SHIONOYA, Mitsuhiro
- 2F8-11** Synthesis and Assemblies of Highly Anion-Responsive π -Electronic Molecules (Coll. Life Sci., Ritsumeikan Univ.) ○KUNO, Atsuko; MAEDA, Hiromitsu
- 2F8-12** Synthesis and Ion-Pairing Assemblies of Cyclic Anion-Responsive π -Electronic Molecules (Coll. Life Sci., Ritsumeikan Univ.) ○KANAME, Shunsuke; MAEDA, Hiromitsu

Chair: ASAKAWA, Hitoshi (11 : 10~11 : 50)

- * 11:00-11:10: interval for laptop PC connection.(2F8-14, 2F8-15, 2F8-16, 2F8-17)
- 2F8-14** Chiral Anion Recognition by Dibenzofuran-Based Chiral Bisurea Derivatives (Grad. Sch. Eng., Yokohama Natl. Univ.) ITO, Suguru; ○OKUNO, Manami; ASAMI, Masatoshi
- 2F8-15** Synthesis of Arylethynyl-Substituted Anion-Responsive π -Electronic Systems Providing Dimension-Controlled Assemblies (Coll. Life Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; ○WATANABE, Yuta
- 2F8-16** Synthesis, Self-association, and Anion Recognition of Conjugated Macrocycles Composed of Dibenzothiophene and Triazole Moieties (Grad. Sch. Sci. Technol., Gunma Univ.) ○JIN, Satoshi; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 2F8-17** Synthesis of Space-Controllable Anion-Responsive π -System Dimers (Coll. Life Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; ○NAGANAWA, Atsushi

Friday, March 17, PM

Chirality

Chair: IWAMURA, Munetaka (13 : 10~13 : 50)

- * 13:00-13:10: interval for laptop PC connection.(2F8-26, 2F8-27, 2F8-28, 2F8-29)
- 2F8-26** Nonclassical control of circularly polarized luminescence (CPL) property of axially chiral binaphthyl compounds having fluorescent unit (Grad. Sch. Sci. Eng., Kindai Univ.) KURODA, Natsuki; ○NAKANISHI, Shoma; MIZUSAWA, Takaya; TAJIMA, Nobuo; FUJIKI, Michiya; IMAI, Yoshitane
- 2F8-27** Preparation of cryptochiral bipyrene luminophore having circularly polarized luminescence (CPL) property (Faculty of Science and Engineering, Kindai University) ○YANAI, Masaki; NAKANISHI, Syoma; TAJIMA, Nobuo; FUJIKI, Michiya; IMAI, Yoshitane
- 2F8-28** Preparation of chiral DIOP/Eu-hybride luminophore having circularly polarized luminescence (CPL) property (Grad. Sch. Sci. Eng., Kindai Univ.; Osaka Municipal Technical Research Institute; Grad. Sch. Mat. Sci., NAIST) ○HARA, Nobuyuki; MORI, Ryota; SHIZUMA, Motohiro; FUJIKI, Michiya; IMAI, Yoshitane
- 2F8-29** Preparation of chiral peptide/Eu-hybride luminophore having circularly polarized luminescence (CPL) property (Grad. Sch. Sci. Eng., Kindai Univ.; NAIST) ○SATO, Takuya; NISHI, Kyouhei; KITAMATSU, Mizuki; FUJIKI, Michiya; IMAI, Yoshitane

Chair: MAEDA, Hiromitsu (14 : 00~14 : 40)

- * 13:50-14:00: interval for laptop PC connection.(2F8-31, 2F8-32, 2F8-33, 2F8-34)
- 2F8-31** Photophysical Properties of CPL-Emitting Inclusion Complexes between 9,10-Bis(phenylethynyl)anthracene and γ -CD (Grad. Sch. Pharm. Sci., Univ. of Toyama; Grad. Sch. Sci. Eng., Univ. of Toyama) ○HAYASHI, Koichiro; KOIKE, Hikaru; IWAMURA, Munetaka; NOZAKI, Koichi; INOUE, Masahiko

- 2F8-32** Circularly Polarized Luminescence (CPL) Properties of Dibenzofuran-based Chiral Diamine with Pyrenyl Groups (Grad. Sch. Eng., Yokohama Natl. Univ.; Grad. Sch. Sci. Eng., Kindai Univ.) ITO, Suguru; ○IKEDA, Kengo; NAKANISHI, Syoma; IMAI, Yoshitane; ASAMI, Masatoshi
- 2F8-33** Preparation of chiral DL-peptide-pyrene organic fluorophore and its circularly polarized luminescence (CPL) property (Grad. Sch. Sci. Eng., Kindai Univ.; Grad. Sch. Mat. Sci., NAIST) ○MIMURA, Yuki; NISHIKAWA, Tomoki; NAKAI, Shiho; FUCHINO, Ryo; KITAMATSU, Mizuki; FUJIKI, Michiya; IMAI, Yoshitane
- 2F8-34** Circularly polarized luminescence (CPL) property of chiral binaphthyl/pyrene fluorophores using chiral transfer (Fac. Sci. Eng., Kindai Univ.; Grad. Sch. Mat. Sci., NAIST) ○OKUDA, Koji; TANIMOTO, Kotomi; MIMURA, Yuki; FUJIKI, Michiya; IMAI, Yoshitane

Chair: IMAI, Yoshitane (17 : 00~17 : 30)

* 16:50-17:00: interval for laptop PC connection.(2F8-49, 2F8-51)

- 2F8-49[#]** Synthesis of New Cyclic Amides Bearing a Dynamic Thiahelicene Unit and their Helicity Control by Complexation with Chiral Guests (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NAMBU, Yoko; TAKAHASHI, Kaori; TAKATA, Toshikazu
- 2F8-51** Chiroptical Properties of Anion-Responsive Chiral Oligopyrroles (Coll. Life Sci., Ritsumeikan Univ.) VELLANKI, Lakshmi; ○HAKETA, Yohei; MAEDA, Hiromitsu

Saturday, March 18, AM

Solid-State Emission

Chair: SEKI, Tomohiro (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3F8-01, 3F8-02, 3F8-03, 3F8-04, 3F8-05, 3F8-06)
- 3F8-01** Solid-state photoluminescence of 2,6-diaminobenzophenones (KIT) ○NAKATANI, Masaki; SHIMIZU, Masaki
- 3F8-02** Organic Crystals Exhibiting Fluorescence and Persistent Room Temperature Phosphorescence Simultaneously under Ambient Conditions (KIT) ○SHIGITANI, Ryosuke; SHIMIZU, Maski; MIYAKE, Yusuke; TAJIMA, Kunihiko
- 3F8-03** Room temperature phosphorescence of 1,4-bis(aryl)-2,5-bis(silylmethoxy)benzenes (KIT) ○KINOSHITA, Takumi; SHIGITANI, Ryosuke; SHIMIZU, Masaki; MIYAKE, Yusuke; TAJIMA, Kunihiko
- 3F8-04** Fluorescence behavior of 2,6,10-trisubstituted triazatriangulene (TATA) cations in solution and in the solid state (Grad. Sch. Eng., Kyoto Univ.) ○NOGUCHI, Hiromu; YOKOYAMA, Soichi; HIROSE, Takashi; MATSUDA, Kenji
- 3F8-05** Vacuum Co-deposition Synthesis of Ytterbium Complex for Infrared Organic Light-Emitting Diodes (OPERA, Kyushu Univ.) ○JINNAI, Kazuya; KABE, Ryota; ADACHI, Chihaya
- 3F8-06[#]** Synthesis and Optical Properties of Ethynylanthracene-Substituted *o*-Carborane (Grad. Sch. Eng., Kyoto Univ.) ○YAMAMOTO, Hideki; TANAKA, Kazuo; CHUJO, Yoshiki

Chair: ONO, Toshikazu (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3F8-08, 3F8-10, 3F8-11, 3F8-12, 3F8-13)
- 3F8-08[#]** Regulation of Solid-State Emission of Aryl-Modified Carboranes by External Stimuli (Grad. Sch. Eng., Kyoto Univ.) ○TANAKA, Kazuo; NISHINO, Kenta; YAMAMOTO, Hideki; CHUJO, Yoshiki
- 3F8-10** Cage-size Effect on Solid-state Emission in Dimethylfluorene Bridged Macrocages (Grad. Sch. Urban Environmental Sci., TMU) ○YOSHIZAWA, Reina; INAGAKI, Yusuke; YAMAGUCHI, Kentaro; SETAKA, Wataru
- 3F8-11** Synthesis and Photophysical Properties of Boron Diiminate Complexes Containing Aromatic Substituents on a Boron Atom (Grad. Sch. Eng., Kyoto Univ.) ○HIMENO, Ryoji; ITO, Shunichiro; TANAKA, Kazuo; CHUJO, Yoshiki
- 3F8-12[#]** Synthesis and Photophysical Properties of Diiminate Complexes Containing Group 13 Elements (Grad. Sch. Eng., Kyoto Univ.) ○ITO, Shunichiro; YAMAGUCHI, Madoka; TANAKA, Kazuo; CHUJO, Yoshiki
- 3F8-13** Photoisomerization behavior of TPE disubstituted derivatives (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○MACHIDA, Takashi; KOKADO, Kenta; SADA, Kazuki

Chair: TANAKA, Kazuo (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3F8-15, 3F8-17, 3F8-18, 3F8-20)
- 3F8-15[#]** Full-color emission tuning in OLED based on aggregation formation and aggregation induced exciplex formation (OPERA, Kyushu Univ.) ○TSUCHIYA, Youichi; NAKANOTANI, Hajime; ITO, Fuyuki; ADACHI, Chihaya
- 3F8-17** A Supercooled Nematic Phase Shown by A Hetero-type Cyclophane and the External Stimuli-responsive Luminescence Properties (RIES, Hokkaido Univ.) ○SAGARA, Yoshimitsu; TAMAOKI, Nobuyuki
- 3F8-18[#]** Luminescent Mechanochromism of Gold Isocyanide Complex Possessing Chiral Crystalline Phase (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○JIN, Mingoo; SEKI, Tomohiro; ITO, Hajime

- 3F8-20** Luminescent Mechanochromism of Biaryl Isocyanide Gold Complex Based on Crystal-to-Crystal Phase Transition (Sch. Eng., Hokkaido Univ.) ○SUMITANI, Toshiki; JIN, Mingoo; SEKI, Tomohiro; ITO, Hajime

Saturday, March 18, PM

Chair: SHIMIZU, Masaki (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3F8-28, 3F8-29, 3F8-30, 3F8-32, 3F8-33)
- 3F8-28** Design of a Unusually Sensitive Sensory System through a Combination of Charge Neutralization and Aggregation-Induced Emission (AIE) (ISIT Nanotechnology Lab.; IAS, Kyushu Univ.; Fac. Eng., Sojo Univ.) ○YOSHIHARA, Daisuke; SHINKAI, Seiji
- 3F8-29** Inclusion Crystal Growth and Optical Properties of Charge-Transfer Complexes Built from Aromatic Guest Molecules and Naphthalenediimide Derivatives (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST) ○TSUKIYAMA, Yoshifumi; TAEMA, Ai; ONO, Toshikazu; HISAEDA, Yoshio
- 3F8-30*** Inclusion Crystal Growth and Mechanochromism Properties of Charge-Transfer Complexes Built from Aromatic Guest Molecules and Supramolecular-Acceptor Hosts (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST) ○ONO, Toshikazu; TSUKIYAMA, Yoshifumi; TAEMA, Ai; HISAEDA, Yoshio
- 3F8-32** Functionalization of Oligoethylene Glycol Side Chains for Tuning Mechanochromic Properties of Gold Isocyanide Complexes (Sch. Eng., Hokkaido Univ.) ○KASHIYAMA, Kentaro; TOKODAI, Noriaki; SEKI, Tomohiro; ITO, Hajime
- 3F8-33** Crystal Structures and Luminescent Mechanochromic Properties of Binuclear Gold Isocyanide Complexes (Sch. Eng., Hokkaido Univ.) ○IDA, Kentaro; TOKODAI, Noriaki; SEKI, Tomohiro; ITO, Hajime

Photoexcited State

Chair: ONO, Toshikazu (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3F8-35, 3F8-37, 3F8-38, 3F8-40)
- 3F8-35*** Circular dichroism spectra of chiral naphthalene diimide dimer molecules in the photo-excited triplet state (IMRAM, Tohoku Univ.) SATO, Takehito; ○ARAKI, Yasuyuki; SAKAMOTO, Seiji; WADA, Takehiko
- 3F8-37** The Photoexcited State Dynamics of Methyl Orange- γ -cyclodextrin Complex Monitored by Time-resolve High Sensitive Circular Dichroism (CD) Measurement System (IMRAM, Tohoku Univ.) ○KURONUMA, Makoto; SATO, Takehito; ARAKI, Yasuyuki; SAKAMOTO, Seiji; WADA, Takehiko
- 3F8-38*** Excited state engineering for efficient reverse intersystem crossing process (OPERA, Kyushu Univ.) ○NODA, Hiroki; NAKANOTANI, Hajime; KABE, Ryota; ADACHI, Chihaya
- 3F8-40** ESIPT Emission of an Alkylammonium-strapped 2,6-Dithienylpyridine (Grad. Sch. Sci., Nagoya Univ.) ○KUBOTA, Tomoya; SUZUKI, Naoya; YAMAGUCHI, Shigehiro

Chair: YANAI, Nobuhiro (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(3F8-42, 3F8-43, 3F8-44, 3F8-45, 3F8-46)
- 3F8-42** NIR Emissive π -conjugated Polymer Consisting of an ESIPT Fluorophore (Grad. Sch. Sci., Nagoya Univ.) ○SUZUKI, Naoya; WAKIOKA, Masayuki; OZAWA, Fumiyuki; YAMAGUCHI, Shigehiro
- 3F8-43** Synthesis and excited-state dynamics of azaperylene derivatives (Grad. Sch. Sci. Tech., Keio Univ.; Grad. Sch. Eng., Nagoya Univ.) ○HIRONO, Akitsu; SAKAI, Hayato; SAKANOU, Tomo; TAKENOBU, Taishi; HASOBE, Taku
- 3F8-44** Intramolecular Singlet Fission of Tetracene Dimers in Homogeneous Solution (Fac. Sci. Tech., Keio Univ.; IMRAM, Tohoku Univ.; Department of Chemistry and Bioengineering, TUT.) ○NAKAMURA, Shunta; SAKAI, Hayato; ARAKI, Yasuyuki; WADA, Takehiko; TKACHENKO, Nikolai; HASOBE, Taku
- 3F8-45** Triplet-Triplet Annihilation Photon Upconversion Using a Dyad Composed of Two Fluorophore Connected by Adamantane (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○KANOH, Masaya; MATSUI, Yasunori; OHTA, Eisuke; OGAKI, Takuya; IKEDA, Hiroshi
- 3F8-46** Photophysical properties of up-conversion in low molecular mass organogel (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○UDA, Shinnosuke; NISHIYAMA, Katsura; KAWAI, Hideki

Chair: ARAKI, Yasuyuki (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(3F8-48, 3F8-49, 3F8-51, 3F8-52)
- 3F8-48** Impact of an oxidation-activated Co(II) complex on triplet-triplet upconversion (Grad. Sch. Urban Environmental Sci., TMU) ○UEDA, Yuya; MATSUMOTO, Hiroto; KUBO, Yuji
- 3F8-49*** Photon Upconversion in Highly Ordered Ionic Crystals (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST) ○OGAWA, Taku; YANAI, Nobuhiro; KIMIZUKA, Nobuo
- 3F8-51** Development of sensitizer-free TTA upconversion system (Grad. Sch.

Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST) ○OKUMURA, Keisuke; YANAI, Nobuhiro; KIMIZUKA, Nobuo

- 3F8-52** Development of ionic solid materials for efficient photon upconversion (Fac. Eng., Kyushu Univ.) ○MIYANO, Junji; HISAMITSU, Shota; YANAI, Nobuhiro; KIMIZUKA, Nobuo

Chair: SAKAI, Hayato (17 : 50~18 : 30)

- * 17:40-17:50: interval for laptop PC connection.(3F8-54, 3F8-56, 3F8-57)
- 3F8-54*** Synthesis of divinylbipyrrole: influences of alkyl groups on solubility and photophysical properties (Kitakyushu Nat. Coll. of Tech.) ○OKAWARA, Toru; KAWANO, Reo; TOYOFUKU, Renjiro; MATSUMOTO, Kanako; YAMAMOTO, Ryutarō; TAKEHARA, Kenji
- 3F8-56** Synthesis and fluorescence properties of (1,6)pyrenophanes linked by oligoethylene glycol tethers (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○SAITO, Genki; FURUYAMA, Taniyuki; SEGI, Masahito; MAEDA, Hajime
- 3F8-57** Synthesis and properties of soluble bitracenes (Sch. Eng., The Univ. of Shiga Pref.) ○KITAMUAR, Chitoshi; HONDA, Tasuku; ONO, Katsuhiko; NISHISDA, Jun-ichi; KAWASE, Takeshi

Sunday, March 19, AM

Photophysical Properties

Chair: MATSUI, Yasunori (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4F8-01, 4F8-02, 4F8-03, 4F8-04, 4F8-05, 4F8-06)
- 4F8-01** Effects of Structural Constraint on the Properties of Dibenzoazaborines (Grad. Sch. Sci., Nagoya Univ.) ○ANDO, Mikinori; OGI, Soichiro; YAMAGUCHI, Shigehiro
- 4F8-02** Synthesis and Properties of Acenaphthylene-Fused π -Extended BOPHY (Grad. Sch. Sci., Eng., Ehime Univ.) ○MATSUZAKI, Yuya; MORI, Shigeki; TAKASE, Masayoshi; UNO, Hidemitsu; OKUJIMA, Tetsuo
- 4F8-03** Synthesis of asymmetrically substituted dihydroacridine derivatives and their fluorescence property (Fac. Sci. Tech., Keio Univ.) ○HOSHINO, Hidetaka; MIURA, Youhei; YOSHIOKA, Naoki
- 4F8-04** Fluorescent Molecular Force Probe and its Mechanochemistry (Dep. Chem., Sch. Sci., Kyoto Univ.; PRESTO, JST) ○SAITO, Shohei; YOKOYAMA, Soichi; KOTANI, Ryota; YAMAKADO, Takuya; KUSHIDA, Aki; LIU, Pengpeng; NAKAIKE, Yumi; OSUKA, Atsuhiko
- 4F8-05** Chemical Functionalization of Fluorescent Molecular Force Probe (Dep. Chem., Sch. Sci., Kyoto Univ.; PRESTO, JST) ○KOTANI, Ryota; YOKOYAMA, Soichi; SAITO, Shohei; OSUKA, Atsuhiko
- 4F8-06** Photochemistry of Tetracene- and Pentacene-based Dynamic Fluorophore (Dep. Chem., Sch. Sci., Kyoto Univ.; PRESTO, JST) ○YAMAKADO, Takuya; SAITO, Shohei; OSUKA, Atsuhiko

Chair: MORI, Shigeki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4F8-08, 4F8-10, 4F8-12, 4F8-13)
- 4F8-08*** Cooperatively Interlocked [2+1]-Type π -System-Anion Complexes and Their Ion Pairs (Coll. Life Sci., Ritsumeikan Univ.) ○YAMAKADO, Ryohei; MAEDA, Hiromitsu
- 4F8-10*** Remarkable Solvatochromism of a [2.2]Paracyclophane-Containing Organoboron Complex (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○TANAKA, Mirai; MURAOKA, Shunsuke; MATSUI, Yasunori; OHTA, Eisuke; SAKAI, Atsushi; OGAKI, Takuya; YOSHIMOTO, Yuichi; MIZUNO, Kazuhiko; IKEDA, Hiroshi
- 4F8-12** Synthesis and Properties of Carbazole-Pyrimidine Conjugates and Their Platinum Complexes (Grad. Sch. Sci. Tech., Gunma Univ.) ○YOSHIKAWA, Naoki; OKANOYA, Yuki; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 4F8-13** Synthesis and Properties of 4,4'-Bipyrimidine Derivatives Bearing Carbazole Moieties and Their Metal Complexes (Grad. Sch. Sci. Tech., Gunma Univ.) ○HASEGAWA, Yoshimasa; KATO, Shin-ichiro; NAKAMURA, Yosuke

Chair: SAITO, Shohei (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4F8-15, 4F8-16, 4F8-17, 4F8-18, 4F8-19, 4F8-20)
- 4F8-15** Novel photoreactions with emission change in donor-acceptor type azanaphthalenylamine derivatives (Grad. Sch. Pharm., Kyushu Univ.) ○HAGIHARA, Ryusuke; KARASAWA, Satoru
- 4F8-16** Investigation of Response to Amine Analogues Using Emissive 1,5-naphthyridine Derivative (Grad. Sch. Pharm., Kyushu Univ.) ○HIROTA, Junko; HAGIHARA, Ryusuke; USUI, Kazuteru; HIRAI, Go; KARASAWA, Satoru
- 4F8-17** Development of new photodynamic therapy agents by radical ion pair mechanism (Sch. Life Sci. Tech., Tokyo Tech.) ○TSUGA, Yuki; ZHAO, Yijing; KANAMORI, Takashi; OGURA, Shun-ichiro; OHTANI, Hiroyuki; YUASA, Hideya
- 4F8-18** Complex forming to change color of an organic photochromic compound (Grad. Sch. Sci., Eng., Tokyo Tech.) ○SUGIYAMA, Haruki; SEKINE, Akiko; UEKUSA, Hidehira

- 4F8-19** Synthesis and photophysical properties of germylene-bridged 2-arylbenzoheteroles (KIT) ○RYUSE, Daiki; SHIMIZU, Masaki
4F8-20 Development of luminescent ionic liquids based on bis(arylethenyl)bis(siloxy)benzenes. (KIT) ○NAKANO, Yoshiki; SHIMIZU, Masaki

Room F9

Fourth Building Independence Wing D413

Physical Organic Chemistry Structures and Properties

Thursday, March 16, PM

Rotaxane, Catenane

Chair: FUJIHARA, Tetsuaki (12 : 40~13 : 40)

- * 12:30-12:40: interval for laptop PC connection.(1F9-23, 1F9-25, 1F9-26, 1F9-28)
1F9-23[#] Carboxylative cyclization reaction of propargylamines with carbon dioxide using Pd-tethering macrocyclic catalyst (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KIM, Nam-kyun; SOGAWA, Hiromitsu; YAMAMOTO, Koji; TAKATA, Toshikazu
1F9-25 Intramolecular hydroamination reaction of propargylurethane using Pd-tethering macrocycle catalyst (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HIROSE, Takuma; YAMAMOTO, Koji; SOGAWA, Hiromitsu; TAKATA, Toshikazu
1F9-26[#] Decomposition Behavior of Size-Complementary [2]Rotaxanes Having Axle Terminal 2,6-Dimethylphenyl Group as an End-Cap Group (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SATO, Hiroki; AOKI, Daisuke; TAKATA, Toshikazu
1F9-28[#] Synthesis of Rotaxane Based on Strapped Porphyrin : Tandem Active Templates in Click Chemistry (Grad. Sch. Eng., Osaka Univ.; Univ. of Strasbourg) ○MIYAZAKI, Yuta; WYTKO, Jennifer; HAYASHI, Takashi; WEISS, Jean

Chair: AKINE, Shigehisa (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(1F9-30, 1F9-31, 1F9-32, 1F9-33, 1F9-34, 1F9-35)
1F9-30 Asymmetric Catalysis Exploiting the Cooperative Effect of Rotaxane Components (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○IKEDA, Ayano; XU, Kun; NAKAZONO, Kazuko; TAKATA, Toshikazu
1F9-31 Synthesis and Structure Study of Acylpyridinium salt of A Rotaxane (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○IWASE, Takuya; XU, Kun; NAKAZONO, Kazuko; TAKATA, Toshikazu
1F9-32 Synthesis and Optical Resolution of Topologically Chiral [2]Rotaxane (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KONAKAZAWA, Masahiro; NAKAZONO, Kazuko; TAKATA, Toshikazu
1F9-33 Synthesis and Racemization of a Planar Chiral [2]Rotaxane (Fac. Sci., TUS) ○MOCHIZUKI, Yuta; IKEYATSU, Katsuhiko; MUTOH, Yuichiro; KASAMA, Takeshi; SAITO, Shinichi
1F9-34 A study on synthesis of [3]rotaxane by use of intramolecular cross-linkage of crown ether (Grad. Sch. Eng., Univ. of Fukui) ○FUJINO, Takaaki; NAITOU, Hirotake; MIYAGAWA, Shinobu; KAWASAKI, Tsuneomi; TOKUNAGA, Yuuji
1F9-35[#] Multi-Stimuli-Responsive Four-State Molecular Shuttling of a [2] Rotaxane (Grad. Sch. Eng., Univ. of Fukui) ○KIMURA, Masaki; MIZUNO, Takuma; UEDA, Masahiro; MIYAGAWA, Shinobu; KAWASAKI, Tsuneomi; TOKUNAGA, Yuji

Chair: NAKAZONO, Kazuko (15 : 00~16 : 00)

- * 14:50-15:00: interval for laptop PC connection.(1F9-37, 1F9-38, 1F9-39, 1F9-40, 1F9-41, 1F9-42)
1F9-37 Formation Behavior of Pseudorotaxane Using C_{3v} BODIPY Macrocyclic Trimer as a Wheel (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TMS, Univ. of Tsukuba) ○YAMAGUCHI, Gento; NAKAMURA, Takashi; NABESHIMA, Tatsuya
1F9-38 Construction of New Rotaxane Structures by Using 24-crown-8 like Macrocyclic Dinuclear Metallohost as a Wheel (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○KOBAYASHI, Seiya; SAKATA, Yoko; AKINE, Shigehisa
1F9-39 Synthetic Study of Rotaxanes with the Gate Function by Taking Advantage of Selective Thiol Exchange Reaction on a Selenium Atom (Sch. Sci., Tokyo Tech.) ○NODA, Satoshi; SASE, Shohei; GOTO, Kei
1F9-40 Construction of the Rotaxane-based Molecular Shuttles which Two Macrocycles Pass Each Other along a Single Axle Component (Grad. Sch. Chem. Sci. Technol., TUS) ○HOSHINO, Sayaka; ONO, Kousuke; KAWAI, Hidetoshi
1F9-41 Application of the highly blue-light-stable [3]rotaxane-type bis(phenylethynyl)pyrene to biomolecular labeling (Grad. Sch. Pharm. Sci., Univ. of Toyama) ○YOSHIZAWA, Atsushi; INOUE, Masahiko

- 1F9-42** Synthesis of Alkynylpyrene-Based Rotaxanes that Exhibit Intense Blue-Light Emission by using Template-Click Reaction (Fac. Pharm. Sci., Univ. of Toyama) ○SUGAWARA, Soma; HAYASHI, Koichiro; YOSHIZAWA, Atsushi; INOUE, Masahiko

Chair: NAKAMURA, Takashi (16 : 10~16 : 40)

- * 16:00-16:10: interval for laptop PC connection.(1F9-44, 1F9-45, 1F9-46)
1F9-44 Synthesis of metal-bis(dithiobenzoate) complexes insulated by the rotaxane structure (Sch. Eng., Kyoto Univ.) ○HARADA, Ryosuke; HOSOMI, Takuro; TERAU, Jun; FUJIHARA, Tetsuaki; TSUJI, Yasushi
1F9-45 Synthesis of [3]Catenanes by Combination of Cu-Mediated Coupling Reactions and Metal-Template Method. (Fac. Sci., TUS; Tokyo Med. and Dental Univ.) ○ITOU, Ken; HOSOYA, Shoichi; MUTOH, Yuichiro; SAITO, Shinichi
1F9-46 Synthesis of a peptide [2]catenane via Ω -looped motif (Grad. Sch. Eng., The Univ. of Tokyo) ○INOMATA, Yuuki; YAMAGAMI, Motoya; SAWADA, Tomohisa; FUJITA, Makoto

Self-assembly

Chair: KOJIMA, Tatsuo (16 : 50~17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(1F9-48, 1F9-50, 1F9-51, 1F9-52, 1F9-53)
1F9-48[#] Supramolecular chemistry of giant cylindrical polymer brushes: Formation of huge crystalline lattices in aqueous media and their hierarchical structures (RIKEN CEMS) ○YAMAUCHI, Yoshihiro; YAMADA, Kuniyo; HORIMOTO, Noriko; ISHIDA, Yasuhiro
1F9-50 Synthesis and Higher-Order Structures of Amphiphilic Ethynylpyridine Macrocycles (Grad. Sch. Pharm. Sci., Univ. of Toyama) ○SUZUKI, Daiki; ABE, Hajime; INOUE, Masahiko
1F9-51 Self-assembly of porphyrin-based macrocyclic boronic esters (Grad. Sch. Sci., Eng., Tokyo Tech.) ○FUKUDA, Kenya; SHIMO, Shunsuke; TAKAHASHI, Kohei; IWASAWA, Nobuharu
1F9-52 Self-aggregates of amphiphilic chlorophyll derivatives possessing various substituents at the 3 and 13¹-positions. (Fac. Sci. Tech., Ryukoku Univ.; Graduate School of Life Sciences, Ritsumeikan University) MIYATAKE, Tomohiro; ○SASAKI, Takaaki; TAMIAMI, Hitoshi
1F9-53 Assemblies and Spectroscopic and Electrochemical Properties of Hydrogen-Bonding Tetrathiafulvalene Derivatives (Grad. Sch. Sci. Tech., Nihon Univ.) ○KANEKO, Ryuji; WU, Guohua; SUGAWA, Kosuke; OTSUKI, Joe

Chair: ISHIDA, Yasuhiro (18 : 00~18 : 50)

- * 17:50-18:00: interval for laptop PC connection.(1F9-55, 1F9-56, 1F9-57, 1F9-58, 1F9-59)
1F9-55 Self-assembly Process of Pd₂L₄ Cage Complex Consisting of U-shaped Ditung Ligand: Isolation, Characterization, and Reaction of a Metastable Long-lived Intermediate (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○NAKAGAWA, Masanori; KOJIMA, Tatsuo; HIRAOKA, Shuichi
1F9-56 Theoretical study on the self-assembly process of Pd₂L₄ cage complex (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○SAKUMA, Yui; MASHIKO, Takako; HIRAOKA, Shuichi; NAGASHIMA, Umpei; TACHIKAWA, Masanori
1F9-57 Self-assembly process of Pd₄L₈ tetrahedron-shaped complex based on the characterization, isolation, and reactivity of a major intermediate (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TATEISHI, Tomoki; KOJIMA, Tatsuo; HIRAOKA, Shuichi
1F9-58 Selective Formation of a Macrocyclic Metal Complex through Self-assembly of Triptycene-based Ligand by Using a Template (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○YAMAMOTO, Ryoichi; SAITO, Daiki; SAKATA, Yoko; AKINE, Shigehisa
1F9-59[#] Crystalline Dopant Strategy toward New Concept Polymer Composites (Dept. of App. Chem., The Univ. of Tokyo) ○FUJITA, Daishi; YOSHIDA, Nobuhiro; FUJITA, Makoto

Friday, March 17, AM

Supramolecular chemistry

Chair: UBE, Hitoshi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2F9-01, 2F9-02, 2F9-03, 2F9-04, 2F9-06)
2F9-01 Expanded Pyridyl-Cavitand Capsules Based on Metal-Coordination Bonds and Their Guest Encapsulations (Fac. Sci., Shizuoka Univ.) ○UETA, Takuro; NAKAMURA, Munehika; KOBAYASHI, Kenji
2F9-02 Metal-Coordination Assisted Chiral Pyridyl-Cavitand Capsule: Diastereomeric Encapsulation of Prochiral Guests (Grad. Sch. Sci., Shizuoka Univ.; Bruker AXS) ○NAKAMURA, Munehika; YOZA, Kenji; KOBAYASHI, Kenji
2F9-03 A 4:1 Complex of Rh(III)Cl Tetraarylporphyrin and Tetra(*m*-pyridyl) cavitand Directed to Self-Assembled Molecular Gear (Grad. Sch. Sci., Shizuoka Univ.) ○NAKABAYASHI, Kakeru; KOBAYASHI, Kenji
2F9-04[#] Self-Assembly of Peanut-Shaped Polyaromatic Compounds (Lab. Chem. Life Sci., Tokyo Tech.) ○YAZAKI, Kohei; KIKUCHI, Takashi; SATO, Hiroyasu; SOUMYAKANTA, Prusty; DILLIP KUMAR, Chand;

YOSHIZAWA, Michito; AKITA, Munetaka

2F9-06 Synthesis of Azabuckybowl Dimers and Their Binding Behavior for C₆₀ (Sch. Eng., Nagoya Univ.) ○TAKEDA, Motoki; YOKOI, Hiroki; HIROTO, Satoru; SHINOKUBO, Hiroshi

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

* 10:00-10:10: interval for laptop PC connection.(2F9-08, 2F9-09, 2F9-10, 2F9-11, 2F9-12, 2F9-13)

2F9-08 Synthesis of Supramolecular Giant Ring Based on Dynamic Imine Bond of Dumbbell Type Benzaldehyde and Dumbbell Type Aniline with Long Flexible Spacers (Grad. Sch. Sci., Shizuoka Univ.) ○FUJIMURA, Koki; KOBAYASHI, Kenji

2F9-09 Self-Assembly of Pyridyl-Cavitand and Isophthalic Acid Linker Bearing Azo-Dendron into a Photoresponsive Hydrogen-Bonded Capsule (Grad. Sch. Sci., Shizuoka Univ.) ○HIROTA, Shiori; TOGARI, Yuka; KOBAYASHI, Kenji

2F9-10 Multistimuli-responsive interconversion of bowl/capsule supramolecular hosts (Graduate School of Science, The University of Tokyo) ○ENDO, Kenichi; UBE, Hitoshi; SHIONOYA, Mitsuhiko

2F9-11 Argentivorous molecule/Ag⁺ complex that forms capsule-type inclusion complexes with α, ω-alkyldinitriles (Fac. Sci., Toho Univ.) ○IWASE, Miki; IKEDA, Mari; LEE, Eunji; LEE, Shim Sung; KUWAHARA, Shunsuke; HABATA, Yoichi

2F9-12 Molecular recognition of self-assembled capsule possessing four bipyridyl moieties with substituents (Grad. Sch. Sci., Hiroshima Univ.) ○MAEHARA, Takeshi; IMAMURA, Taisuke; SEKIYA, Ryo; HAINO, Takeharu

2F9-13 Host-guest Complexation of Luminescent Guests in Liquid Pillar[n]arene (Coll. Sci. Eng., Kanazawa Univ.) ○SAITO, Kazuki; TAMURA, Yuko; KAKUTA, Takahiro; YAMAGISHI, Tada-aki; OGOSHI, Tomoki

Chair: SEKIYA, Ryo (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2F9-15, 2F9-16, 2F9-17, 2F9-18, 2F9-19)

2F9-15 Emission Behavior Based on Supramolecular Assemblies of Amphiphilic Pillar[n]arenes (Coll. Sci. Eng., Kanazawa Univ.) ○TOMITA, Takuya; MARUYAMA, Keisuke; KAKUTA, Takahiro; YAMAGISHI, Tada-aki; OGOSHI, Tomoki

2F9-16 Encapsulation of Eu(III)-complexes by Polyaromatic Micelles and Their Luminescence Properties (Lab. Chem. Life Sci., Tokyo Tech.) ○KAI, Tomokuni; KISHIMOTO, Mai; YOSHIZAWA, Michito; AKITA, Munetaka

2F9-17 Dispersion of Layered Materials by V-shaped Anthracene Dimers with Nonionic Hydrophilic Groups (Lab. Chem. Life Sci., Tokyo Tech.) ○MATSUMOTO, Atsushi; JONO, Keisuke; YOSHIZAWA, Michito; AKITA, Munetaka

2F9-18 Capture of Planar, Tubular, and Dendritic Compounds by an Aqueous Molecular Tweezers with Anthracene Panels (Lab. Chem. Life Sci., Tokyo Tech.) ○JONO, Keisuke; YOSHIZAWA, Michito; AKITA, Munetaka; ALBRECHT, Ken; YAMAMOTO, Kimihisa

2F9-19* Metal-Assisted Association of Pyrene Derivatives and Emission Properties (Grad. Sch. Chem. Sci. Technol., TUS; Grad. Sch. Mat. Sci., NAIST; PRESTO, JST) ○IMAI, Yuki; NAKANO, Yuka; KAWAI, Tsuyoshi; YUASA, Junpei

Friday, March 17, PM

Chair: YUASA, Junpei (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2F9-28, 2F9-29, 2F9-30, 2F9-31, 2F9-32)

2F9-28 Synthesis of Rim-to-Rim Connected Bisresorcinarenes (Grad. Sch. Sci., Hiroshima Univ.) ○SHIMOYAMA, Daisuke; YAMADA, Hitomi; IKEDA, Toshiaki; SEKIYA, Ryo; HAINO, Takeharu

2F9-29 Construction of π-Stacks Using Hexakis(spiroborate)Nanocages (Konan Univ.) ○KUSUMOTO, Kazuki; HASHIMOTO, Yuhki; KATAGIRI, Kosuke; KAWAHATA, Masatoshi; DANJO, Hiroshi; YAMAGUCHI, Kentaro

2F9-30 Chirality Organization of Alanylproline Derivatives Bearing Catalytic Active Sites (Grad. Sch. Eng., Osaka Univ.) MORIUCHI, Toshiyuki; ○KUBO, Maiko; WU, Hao; HIRAO, Toshikazu

2F9-31 Synthesis of cyclodextrins bearing cell-penetrating peptides and observation of its supramolecular complex with porphyrin in living cells (Grad. Sch. Eng., Doshisha Univ.) ○NAKAGAMI, Atsuki; KITAGISHI, Hiroaki

2F9-32* Phenotypic Plasticity Intrinsic in Vesicle-based Model Protocell Emerged by Primitive Central Dogma (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○MATSUO, Muneyuki; KURIHARA, Kensuke; TOYOTA, Taro; SUZUKI, Kentaro; SUGAWARA, Tadashi

Chair: DANJO, Hiroshi (17 : 00~17 : 40)

* 16:50-17:00: interval for laptop PC connection.(2F9-49, 2F9-51, 2F9-52)

2F9-49* Enhanced intermolecular interactions through synchronized activation of molecules (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.) ASAI, Atsushi; SAKAI, Ryoichiro; KANZAKI, Chisako; ○NUMATA, Munenori

2F9-51 Control of phase transition in thermo-responsive polymers triggered by photochemical reaction of caged compounds (Grad. Sch. Chem. Sci. and

Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) ○NAYA, Masami; KOKADO, Kenta; SADA, Kazuki

2F9-52* Theoretical insight into the dynamics of iodine captured cycloparaphenylene. (Sch. Sci., Nagoya Univ.; Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○KIMURA, Ryuto; HIJIKATA, Yuh; SAKAMOTO, Hiroto; OZAKI, Noriaki; ITAMI, Kenichiro; IRLE, Stephan

Saturday, March 18, AM

Organic Radical and Molecular Magnet

Chair: YOSHIZAWA, Michito (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 Preparation of Supramolecules Carrying Organic Radical and Application to MRI Contrast Agents (Grad. Sch. Pharm., Kyushu Univ.) ○MORISHITA, Kosuke; MURAYAMA, Shuhei; UEKI, Shoji; AOKI, Ichio; KARASAWA, Satoru

3F9-02 Evaluation of water proton relaxivities for water-soluble NO radicals having polar substituents (Grad. Sch. Pharm., Kyushu Univ.) ○SHIRAIISHI, Ryoma; MORISHITA, Kosuke; ARAKI, Takeru; MURAYAMA, Shuhei; AOKI, Ichio; KARASAWA, Satoru

3F9-03 Preparations of MRI Contrast Agents Composed of Supramolecular Gadolinium Complex Showing a High Water Proton Relaxivity (Grad. Sch. Pharm., Kyushu Univ.) ○ARAKI, Takeru; MURAYAMA, Shuhei; USUI, Kazuteru; HIRAI, Go; AOKI, Ichio; KARASAWA, Satoru

Nanostructures and Its Physical Property, etc.

3F9-04 Synthesis of Chiral Organic Molecule Protected-Copper Oxide (I) Nanoparticles and Their Hybrid Polymer Nanotubes (Grad. Sch. Sci. Eng., Kindai Univ.) ○IMAMURA, Yuta; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

3F9-05 Various Cross-Coupling Reactions using Palladium Nanoparticles in Supercritical Reaction Field (Grad. Sch. Sci. Eng., Kindai Univ.) ○KONDO, Ryota; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

3F9-06 The measurement of single molecule electrical properties of benzoin derivatives by break junction method (Grad. Sch. Sci., Osaka Univ.) ○TANIGUCHI, Hiroki; TANI, Yosuke; TAMAKI, Takashi; MIYOSHI, Yuki; YAMADA, Ryo; TADA, Hirokazu; OGAWA, Takuji

Chair: YAGAI, Shiki (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3F9-08, 3F9-09, 3F9-10, 3F9-11, 3F9-12, 3F9-13)

3F9-08* Reversible Catch and Release of Hydrophilic Compounds Using a Transformable Molecular Tube Possessing Acridinium Panels (Lab. Chem. Life Sci., Tokyo Tech.) ○KURIHARA, Kohei; YAZAKI, Kohei; YOSHIZAWA, Michito; AKITA, Munetaka

3F9-09 Solid-state Properties of Anthracene-based Molecular Tubes Bearing Exterior Alkyl Groups (Lab. Chem. Life Sci., Tokyo Tech.) ○KURODA, Kiyonori; YAZAKI, Kohei; YOSHIZAWA, Michito; AKITA, Munetaka

3F9-10 Precise Control of Excited-State Dynamics of Pentacene-Alkanethiolate Monolayer Protected Gold Nanoparticles (Fac. Sci. Tech., Keio Univ.; Tampere University of Technology) ○KATO, Daiki; SAKAI, Hayato; TKACHENKO, Nikolai; HASOBE, Taku

3F9-11 Synthesis and Photophysical Properties of Tetracene Alkanethiolate Monolayer Protected Gold Nanoparticles (Fac. Sci. Tech., Keio Univ.; Department of Chemistry and Bioengineering, TUT) ○SAEGUSA, Toshiyuki; SAKAI, Hayato; TKACHENKO, Nikolai; HASOBE, Taku

3F9-12 Synthesis and Properties of Chiral Semiconductor and Metal Nanoparticle Composites (Grad. Sch. Sci. Eng., Kindai Univ.) ○SUMIGAKI, Hikaru; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

3F9-13 Synthesis and Property of Chiral Plasmonic Magnetite and Polymer Hybrid Nanotubes (Grad. Sch. Sci. Eng., Kindai Univ.) ○KISHIMOTO, Naoya; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

Chair: HASOBE, Taku (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3F9-15, 3F9-17, 3F9-18, 3F9-19)

3F9-15* Synthesis and structure of a giant macrocycle composed of diindolocarbazole and salphen (Grad. Sch. Sci., Nagoya Univ.) ○KAWANO, Shin-ichiro; KATO, Masahiro; SOUMIYA, Shinya; SAKATA, Takuya; NAKAYA, Masato; ONOE, Jun; TANAKA, Kentaro

3F9-17 Supramolecular Polymers with Photocontrollable Spontaneous Curvature through Diarylethenes (Fac. Eng., Chiba Univ.) YAGAI, Shiki; ○FUKUSHIMA, Takuya; KARATSU, Takashi

3F9-18 Discrimination between conglomerates and pseudoracemates using surface coverage plots in 2-D self-assemblies at the liquid/graphite interface (Grad. Sch. Eng., Kyoto Univ.) ○MAEDA, Naoki; HIROSE, Takashi; MATSUDA, Kenji

3F9-19* Improved extraction efficiency of carotenoids in plants by the Z-isomerization treatment (Grad. Sch. Bioagr. Sci., Nagoya Univ.) ○HONDA, Masaki; WATANABE, Yoi; KANDA, Hideki; GOTO, Motonobu

Saturday, March 18, PM

Chair: KUBO, Yuji (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3F9-28, 3F9-29, 3F9-30, 3F9-32)
- 3F9-28[#]** 2-D Self-Assembly of Photochromic Diarylethenes Having Oligopeptide Chains at the Liquid/Graphite Interface and Its Photoresponsive Behavior (Grad. Sch. Eng., Kyoto Univ.) ○NISHITANI, Nobuhiko; HIROSE, Takashi; MATSUDA, Kenji
- 3F9-29** Construction of helical nanostructures through supramolecular copolymerization (Grad. Sch. Eng., Chiba Univ.) ○ARATSU, Keisuke; YAGAI, Shiki
- 3F9-30^{**}** Cooperative Supramolecular Polymerization Controlled by Degrees of Molecular Conformational Freedom (Grad. Sch. Eng., Chiba Univ.; Grad. Sch. Eng., Chiba Univ.) ○YAMAUCHI, Mitsuaki; YAGAI, Shiki
- 3F9-32^{**}** Electric stimulus induced phase transition of Iodine Containing Cycloparaphenylenes (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○OZAKI, Noriaki; SAKAMOTO, Hirotsoshi; NISHIHARA, Taishi; ITAMI, Kenichiro

Chair: HIROSE, Takashi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3F9-35, 3F9-36, 3F9-38, 3F9-40)
- 3F9-35** Synthesis of tetraphenylethylene-containing boronate macrocycles and their self-assembly (Grad. Sch. Urban Environmental Sci., TMU) ○KANEKO, Naoyoshi; KUBO, Yuji
- 3F9-36^{**}** Rotational motion of a circularly arranged hexad triptycene molecule: gearing effects and control approach (Grad. Sch. Sci., The Univ. of Tokyo) ○YAMADA, Ryo; ISHIDA, Junichi; UBE, Hitoshi; SATO, Hiroyasu; SHIRO, Motoo; SHIONOYA, Mitsuhiro
- 3F9-38^{**}** Kinetically controlled nanostructures of supramolecular polymers with spontaneous curvature (Grad. Sch. Eng., Chiba Univ.) ○PRABHU, Deepak Dayanandan; YAGAI, Shiki
- 3F9-40** Self-polymerization of Barbiturate with Anthracene Chromophore (Fac. Eng., Chiba Univ.) YAGAI, Shiki; ○PAN, Ziyang; KARATSU, Takashi

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

- * 15:40-15:50: interval for laptop PC connection.(3F9-42, 3F9-43, 3F9-44, 3F9-45, 3F9-46, 3F9-47)
- 3F9-42** Direct visualization of self-assembled tetraphenylmethane derivatives and their triplets in single molecules by atomic resolution AFM in liquid (Coll. Sci. Eng., Kanazawa Univ.) ○MATSUI, Sayaka; OTA, Akio; ASAKAWA, Tsuyoshi; ASAKAWA, Hitoshi
- 3F9-43** Self-assembly of barbiturates functionalized with azobenzene chromophores (Fac. Eng., Chiba Univ.) YAGAI, Shiki; ○SUZUKI, Atsuhito; KARATSU, Takashi
- 3F9-44** Self-assembly of branched oligothiophenes with barbituric acid hydrogen-bonding site (Fac. Eng., Chiba Univ.; Grad. Sch. Sci., Eng., Yamagata Univ.; Grad. Sch. Eng., Osaka Univ.; CREST-JST) YAGAI, Shiki; ○YAMADA, Hiroaki; KIZAKI, Takahiro; LIN, Xu; NAKAYAMA, Kenichi; KARATSU, Takashi

Self-assembly

- 3F9-45** Preparation and properties of organogelators consisting of the ferrocene unit (Grad. Sch. Eng., KIT) ○YAKAYA, Daisuke; MORIGUCHI, Tetsuji; TSUGE, Akihiko
- 3F9-46** Preparation and properties of organogelators having a catechol unit as the basic structure. (Grad. Sch. Eng., KIT) ○KAMOTO, Ryota; MORIGUCHI, Tetsuji; TSUGE, Akihiko
- 3F9-47** Synthesis of TEMPO-substituted Supramolecular Gelator Based on Benzenetricarboxamide and Electrochemical Properties of The Acetonitrile Gel (Sch. Advanced Sci. Eng., Waseda Univ.) ○SASAKI, Yusuke; ICHINOI, Rieka; OYAZU, Kenichi; NISHIDE, Hiroyuki

Supramolecular polymer

Chair: SUGIYASU, Kazunori (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(3F9-49, 3F9-51, 3F9-52, 3F9-53, 3F9-54)
- 3F9-49^{**}** Redox Responsibility and Solid State Luminescence Properties of Insulated π -Conjugated Metallopolymers (Grad. Sch. Eng., Kyoto Univ.) ○HOSOMI, Takuro; MASAI, Hiroshi; TERAU, Jun; FUJIHARA, Tetsuaki; TSUJI, Yasushi
- 3F9-51** Evaluation of Supramolecular Polymerization by Spiroborate-type Molecular Connecting Modules with Amide Groups (Konan Univ.) ○NAKATANI, Mizuki; DANJO, Hiroshi
- 3F9-52** Folding Design of Diamide-Functionalized Polycyclic Aromatic Hydrocarbons toward Kinetically Programmable Supramolecular Polymerization (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○MATSUMOTO, Kentaro; OGI, Soichiro; YAMAGUCHI, Shigehiro
- 3F9-53** Control of Dynamic Propeller Chirality of an Optically-Active Dirhodium Complex through Coordination-Driven Polymerization (Grad.

- Sch. Eng., Nagoya Univ.) ○IWATA, Takuya; OUSAKA, Naoki; YASHIMA, Eiji
- 3F9-54** Structures and functions of photoreactive crystalline nanotubes (Grad. Sch. Eng., The Univ. of Tokyo) ○MATSUI, Toshiya; SATO, Hiroshi; AIDA, Takuzo

Sunday, March 19, AM

Chair: TERAU, Jun (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4F9-01, 4F9-03, 4F9-05, 4F9-06)
- 4F9-01^{*}** Photo-regulated living supramolecular polymerization established by combining energy landscapes of photoisomerization and nucleation-elongation processes (NIMS) ○SUGIYASU, Kazunori; ENDO, Mizuki; FUKUI, Tomoya; SUNGHO, Jung; YAGAI, Shiki; TAKEUCHI, Masayuki
- 4F9-03^{**}** Control over differentiation of a metastable supramolecular assembly in one- and two-dimensions (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; NIMS Molecular Design & Function Group) ○FUKUI, Tomoya; TAKEUCHI, Masayuki; SUGIYASU, Kazunori
- 4F9-05** Dendrimer Supramolecular Polymer for Metal Salts Accumulation. (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) ○TOBARI, Yuta; ALBRECHT, Ken; MENDORI, Shin; YAMAMOTO, Kimihisa
- 4F9-06** Helical organization of supramolecular porphyrin polymer induced by cross-linking with chiral bispyridine (Grad. Sch. Sci., Hiroshima Univ.) ○MARUYAMA, Kei; NADAMOTO, Kouhei; IKEDA, Toshiaki; HAINO, Takeharu

Molecular recognition

Chair: YAMANAKA, Masamichi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4F9-08, 4F9-09, 4F9-10, 4F9-11, 4F9-12)
- 4F9-08** Selective inclusion of regioisomers of disubstituted aromatic compounds with the crystal of p-tert-butylcalix[4]arene (Grad. Sch. Eng., Tohoku Univ.) ○SASAKI, Takuro; KITAGAWA, Taro; TONOSAKI, Ayano; MOROHASHI, Naoya; HATTORI, Tetsutaro
- 4F9-09** Selective extraction of zirconium(VI) over hafnium(VI) with calix[4]arene-diphosphonic acid (Grad. Sch. Eng., Tohoku Univ.) ○KATO, Yutaka; SUMIDA, Sahoko; MOROHASHI, Naoya; HATTORI, Tetsutaro
- 4F9-10[#]** Macrocyclic hexanuclear zinc complex that realizes control of recognition modes of guest molecules by external stimuli (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TIMS, Univ. of Tsukuba) ○KANEKO, Yuya; NAKAMURA, Takashi; NABESHIMA, Tatsuya
- 4F9-11[#]** Triangular Multinuclear Metal Complexes that Orderly Accumulate Labile Coordination Sites (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TIMS, Univ. of Tsukuba) ○KAWASHIMA, Yuto; NAKAMURA, Takashi; NABESHIMA, Tatsuya
- 4F9-12^{**}** Self-sorting of two hydrocarbon receptors with one carbonaceous ligand (Grad. Sch. Sci., The Univ. of Tokyo; ERATO, JST; WPI-AIMR, Tohoku Univ.; Grad. Sch. Sci., Tohoku Univ.) ○MATSUNO, Taisuke; SATO, Sota; YOKOYAMA, Atsutoshi; KAMATA, Sho; ISOBE, Hiroyuki

Chair: MOROHASHI, Naoya (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4F9-15, 4F9-16, 4F9-17, 4F9-18, 4F9-20)
- 4F9-15** Synthesis and physical properties evaluation of hexakis-amide (Fac. Sci., Shizuoka Univ.) ○MASUDA, Junya; KONDO, Seiya; YAMANAKA, Masamichi
- 4F9-16** Synthesis and physical properties evaluation of hexakis-urea derivatives (Fac. Sci., Shizuoka Univ.) ○KONDO, Seiya; YAMANAKA, Masamichi
- 4F9-17** Anion-Responsive π -Electronic Systems with Orthogonally Introduced π -Moieties (Coll. Life Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; ○KODA, Naoya
- 4F9-18^{**}** Synthesis of π -Electronic Anions That Form Ion-Pairing Assemblies (Coll. Life Sci., Ritsumeikan Univ.) ○SASANO, Yoshifumi; MAEDA, Hiromitsu
- 4F9-20** π -Electronic Anions Stabilized by Intramolecular Hydrogen Bonding and Their Ion-Pairing Assemblies (Coll. Life Sci., Ritsumeikan Univ.) ○TAKEDA, Yuka; MAEDA, Hiromitsu

Sunday, March 19, PM

Porphyrine

Chair: NUMATA, Munenori (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(4F9-28, 4F9-30, 4F9-31, 4F9-32, 4F9-33)
- 4F9-28^{**}** Different Metal Centers Effectiveness on the Supramolecular Structures of Porphyrins on Surface of Single Walled Carbon Nanotubes (SWNTs) (Grad. Sch. Sci., Osaka Univ.) ○I. A. ABD EL-MAGEED, Ahmed; OGAWA, Takuji
- 4F9-30** The Stabilization of Multilayer Porphyrins Based on a Host-guest Complexation of a Cyclic Porphyrin Dimer and Its Physical Ability (Grad. Sch. Eng., Kyoto Univ.) ○CHIBA, Yusuke; FUJIHARA, Tetsuaki;

TERAO, Jun; TSUJI, Yasushi

- 4F9-31** Synthesis of cyclic porphyrin assemblies composed of free base porphyrins and slipped cofacial zinc porphyrin dimers. (Grad. Sch. Chem. Sci. Technol., TUS) ○KAWAKAMI, Yuki; KURAMOCHI, Yusuke; SATAKE, Akiharu
- 4F9-32** Regulation of higher-order structures and optical properties of dendrimeric porphyrin trimer using axial ligands (Grad. Sch. Sci., Osaka City Univ.) ○KIMURA, Ryo; SUZUKI, Shuichi; OKADA, Keiji; KOZAKI, Masatoshi
- 4F9-33** Formation of a guanine tetrad on a tetracationic fourfold rotaxane template composed of a porphyrin and a phthalocyanine (Sch. Sci., Nagoya Univ.; Münster Univ.; Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○KURACHI, Yuki; YAMADA, Yasuyuki; RADUNSKY, Christian; MÜLLER, Jens; KATO, Tatsuhisa; TANAKA, Kentaro

Room G1

Sixth Building J612

Inorganic Chemistry

Thursday, March 16, AM

Porous compounds

Chair: UCHIDA, Sayaka (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1G1-01, 1G1-02, 1G1-03, 1G1-05)
- 1G1-01** Creation of Ni⁺ Species Enforced by MFI Reaction Field and Its Marvelous Reaction and Redox Behaviors (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○NANJO, Tsubasa; ODA, Akira; KURODA, Yasushige
- 1G1-02** Synthesis of the [Co^{III}-O₂]⁺ species having the unprecedented light responsiveness utilizing the MFI pore: manipulation of the state of the active-dioxygen by near IR light (Fac. Sci., Okayama Univ.) ○MAMENARI, Yuki; ODA, Akira; OHKUBO, Takahiro; KURODA, Yasushige
- 1G1-03^{##}** Unprecedented reversible reactivity of Zn^{II}-Oxyl enforced by MFI with O₂ at RT (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○ODA, Akira; OHKUBO, Takahiro; KURODA, Yasushige
- 1G1-05^{##}** Multinary nanoparticle crystals prepared through site-selective deposition of gold nanoparticles and control of their crystal structure (Sch. Advanced Sci. Eng., Waseda Univ.; Kagami Memorial Research Inst. Materials Sci. Tech., Waseda Univ.; WIAS) ○YAMAMOTO, Eisuke; MORI, Seiya; KURODA, Yoshiyuki; SHIMOJIMA, Atsushi; WADA, Hiroaki; KURODA, Kazuyuki

Hybridization technology

Chair: TANAKA, Katsuhisa (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1G1-08, 1G1-09, 1G1-10, 1G1-12, 1G1-13)
- 1G1-08[#]** Preparation of Hydrogen-Bonded Molecular Crystals of Double Three-Ring Siloxanes via Modification with Silanol Groups (Sch. Advanced Sci. Eng., Waseda Univ.) ○TOCHIGI, Kazuma; SATO, Naoto; KURODA, Yoshiyuki; SHIMOJIMA, Atsushi; WADA, Hiroaki; KURODA, Kazuyuki
- 1G1-09** Crystal Structure of Er³⁺ ion exchange in GTS-type sodium titanate-silicate (Fac. Eng., Yamaguchi Univ.) ○FUJIWARA, Keiko; NAKATSUKA, Akihiko
- 1G1-10^{##}** Synthesis of hollow spherical titania-silica composite nanoparticle assemblies with controllable composition and their surface modification (Grad. Sch. Eng., KUT) ○NGUYEN, Hien Thi Thu; HABU, Tepei; UMEMOTO, Yuna; MASAOKA, Yukino; OHTANI, Masataka; KOBIRO, Kazuya
- 1G1-12** Development of inorganic matrix having the nano concave-convex surface toward mass spectrometry of high molecular weight compounds (Sch. Env. Sci. Eng., KUT) ○MORITOH, Daiki; HAMADA, Dai; TAKASE, Kazutaka; OHTANI, Masataka; KOBIRO, Kazuya
- 1G1-13** Adsorption behavior of lawrencium (Lr, Z = 103) on tantalum surface (ASRC, JAEA) ○SATO, Tetsuya K.; KANEYA, Yusuke; ASAI, Masato; TSUKADA, Kazuaki; TOYOSHIMA, Atsushi; MITSUKAI, Akina; OSA, Akihiko; MAKII, Hiroyuki; HIROSE, Kentaro; NAGAME, Yuichiro; TOMITSUKA, Tomohiro; SHIRAI, Kaori; SATO, Daisuke; OOE, Kazuhiro; SAKAMA, Minoru; SHINGU, Kazutoshi; NAGUWA, Ryo; KAMADA, Hiroki; MIYASHITA, Sunao; KASAMATSU, Yoshitaka; SHIGEKAWA, Yudai; DULLMANN, Christoph; SCHAEDEL, Matthias; KRATZ, Jens V.; STORA, Thierry; GOTO, Shin'ichi; EICHLER, Robert

Polyoxometalate

Chair: SHIMOJIMA, Atsushi (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(1G1-15, 1G1-16, 1G1-17, 1G1-18)
- 1G1-15** Porous ionic crystal based on Dawson-type polyoxometalate (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○HITOSE, Shota; UCHIDA,

Sayaka

- 1G1-16** The synthesis and redox properties of Ru-substituted polyoxotungstate dimers. (Fac. Eng., Hiroshima Univ.) ○HIJIYA, Masaki; SADAKANE, Masahiro; SANO, Tsuneji; TSUNOJI, Nao; KADOTA, Yusuke
- 1G1-17** Oxidation of alkene with hydrogen peroxide catalyzed by [M(W₅O₁₈)₂]²⁻ (M = La³⁺ or Eu³⁺) (Coll. Eng., Chubu Univ.) ○TOGAWA, Yuta; FUNAHASHI, Mahiro; ISHIKAWA, Eri
- 1G1-18*** Synthesis and Properties of Silicotungstates Possessing p-Block Elements (Grad. Sch. Eng., The Univ. of Tokyo) ○SUZUKI, Kosuke; HANAYA, Takumi; SATO, Rinta; YAMAGUCHI, Kazuya; MIZUNO, Noritaka

Thursday, March 16, PM

Chair: YAGASAKI, Atsushi (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(1G1-34, 1G1-35, 1G1-36, 1G1-38)
- 1G1-34** Selective Deoxygenation of Pyridine *N*-Oxides Using a Visible-light-responsive Dilacunary Silicotungstate Catalyst (Grad. Sch. Eng., The Univ. of Tokyo; Grad. Sch. Eng., The Univ. of Tokyo) ○JEONG, Jinu; SUZUKI, Kosuke; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 1G1-35** Substituents effects on hybrid polyoxotungstate photoactivity (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○FUJIMOTO, Satomi; CAMERON, Jamie M.; ROBINSON, David; NEWTON, Graham N.; OSHIO, Hiroki
- 1G1-36^{##}** Construction of Charge-separated-type Ionic Solids Containing Oxoanions (Grad. Sch. Sci., Osaka Univ.) ○KOJIMA, Tatsuhiko; KUWAMURA, Naoto; KONNO, Takumi
- 1G1-38*** Development of single-molecule electret with Preyssler-type polyoxometalate (Grad. Sch. Sci., Hiroshima Univ.) ○KATO, Chisato; MACHIDA, Ryo; MARYUNINA, Kseniya; TSUNASHIMA, Ryo; TATEWAKI, Yoko; INOUE, Katsuya; NISHIHARA, Sadafumi

Chair: KOJIMA, Tatsuhiko (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(1G1-41, 1G1-43, 1G1-44, 1G1-45)
- 1G1-41^{##}** Sequential Synthesis of Heterometallic Nonanuclear Clusters by Utilizing Lacunary Polyoxometalates (Grad. Sch. Eng., The Univ. of Tokyo) ○MINATO, Takuo; OHATA, Yusuke; SATO, Rinta; SUZUKI, Kosuke; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 1G1-43** Synthesis of metal cation-containing isopolyoxometalate hybrid crystals composed from polymerizable ionic-liquid (Sch. Sci., Tokai Univ.; Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KIYOTA, Yoshiki; KOBAYASHI, Jun; UCHIDA, Sayaka; KOGUCHI, Shinichi; ITO, Takeru
- 1G1-44** Synthesis of proton-containing decavanadate-heterocyclic surfactant hybrid crystal (Sch. Sci., Tokai Univ.) ○MISAWA, Toshiyuki; TAIRA, Minako; FUJIO, Katsuhiko; ITO, Takeru
- 1G1-45^{##}** Substituent effect of organic moiety on clathrate structure in the organic-inorganic hybrid polyoxometalate (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○FUJIBAYASHI, Masaru; TSUNASHIMA, Ryo

Chair: TSUNASHIMA, Ryo (16 : 50~17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(1G1-48, 1G1-49, 1G1-51, 1G1-52)
- 1G1-48[#]** Phosphovanadomolybdic Acid Catalyzed Trifluoromethylation of Arenes (Grad. Sch. Eng., The Univ. of Tokyo) ○LI, Chifeng; SUZUKI, Kosuke; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 1G1-49*** Protonated Molybdoplatinates (Coll. Hum. Sci., Nihon Univ.; Sch. Sci. Tech., Kwansei Gakuin Univ.) ○ZEKI, Tomoji; ○YAGASAKI, Atsushi
- 1G1-51** Synthesis and structure analysis of new polyoxocobaltmolybdate with three-dimensionally concatenated ϵ -Keggin cobaltmolybdate (Fac. Eng., Hiroshima Univ.; Fac. Eng., Hiroshima Univ.) ○ISEKI, Nao; IGARASHI, Takumi; SADAKANE, Masahiro; SANO, Tsuneji; TSUNOJI, Nao; UEDA, Wataru; ZHANG, Zhenxin; HIYOSHI, Norihito
- 1G1-52^{##}** Synthesis and Catalysis of a Titanium-Containing Polyoxovanadate (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○KIKUKAWA, Yuji; FUJITA, Keisuke; HAYASHI, Yoshihito

Friday, March 17, AM

Solid state chemistry

Chair: SUGAHARA, Yoshiyuki (9 : 00 ~ 9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(2G1-01, 2G1-02, 2G1-04)
- 2G1-01** Structure of metal-benzenetriphosphonate with isomorphic structure (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○YAMASHITA, Haruka; IRIE, Akira; KONDOU, Atsushi; MAEDA, Kazuyuki
- 2G1-02^{##}** Synthesis and Dimensionality Control of HfMnSb₂ with Metal Ordered NiAs Structure (Grad. Sch. Eng., Kyoto Univ.) ○MURAKAMI, Taito; YAMAMOTO, Takafumi; TAKATSU, Hiroshi; KAGEYAMA, Hiroshi
- 2G1-04*** Magnetism and ferroelectricity in *k*-Al₂O₃-type (A,Fe)₂O₃ (A = Al, Ga, Fe, Rh, Sc, In) thin films (MSL, Tokyo Tech.) ○ITOH, Mitsuru;

Chair: Tanaka, Katsuhisa (13 : 10~14 : 20)

- 3G1-26[#] Keynote Lecture** Engineering stimulated emission with hyperbolic metamaterials (Purdue Univ.) ◯Meng, Xiangeng (13:10~13:40)
- 3G1-29[#] Invited Lecture** Catalytic ammonia decomposition over Ba-TiO₃-xHx-supported Ru catalysts (Kyoto Univ.) ◯Tang, Ya; Kobayashi, Yoji; Tassel, Cedric; Yamamoto, Takafumi; Kageyama, Hiroshi (13:40~14:00)
- 3G1-31[#] Invited Lecture** Borophosphonate cages as element-blocks: ab initio study of simple [HPO₃BH]₄ and synthesis of two novel polymerizable borophosphonate cages (Waseda Univ.) ◯Zapico, Julian; Tanaka, Kazuyoshi; Sugahara, Yoshiyuki (14:00~14:20)

(14 : 20~14 : 30)

- 3G1-33[#] Computer Setting and Break** (14:20~14:30)

Chair: Osada, Minoru (14 : 30~15 : 40)

- 3G1-34[#] Keynote Lecture** Strong Light-Matter Interactions in Atomically Thin Films (National Taiwan Univ.) ◯Li, Shao-Sian (14:30~15:00)
- 3G1-37[#] Invited Lecture** The Assembly of Fullerene Nanostructures and Their Properties (NIMS) ◯Zheng, Shushu; Lu, Xing; Osada, Minoru; Tsukagoshi, Kazuhito (15:00~15:20)
- 3G1-39[#] Invited Lecture** Syntheses and Applications of Surface-Functionalized Monolayers through Exfoliation of Layered Composites (Keio Univ.) ◯Oaki, Yuya (15:20~15:40)

(15 : 40~15 : 50)

- 3G1-41[#] Computer Setting and Break** (15:40~15:50)

Chair: Nagame, Yuichiro (15 : 50~17 : 20)

- 3G1-42[#] Keynote Lecture** Actinide Polyrotaxanes: From Hydrothermal Synthesis to Structural Regulation (Institute of High Energy Physics) ◯Shi, Weiqun (15:50~16:20)
- 3G1-45[#] Invited Lecture** Separation mechanism of Am(III) from Eu(III) based on chemical bonding (JAEA) ◯Kaneko, Masashi (16:20~16:40)
- 3G1-47[#] Invited Lecture** Extraction and precipitation experiments of element 104, Rf (Osaka Univ.) ◯Kasamatsu, Yoshitaka (16:40~17:00)
- 3G1-49[#] Invited Lecture** Measurement of the first ionization potential of lawrencium (Lr, Z = 103) (RIKEN) ◯Sato, Nozomi (17:00~17:20)

(17 : 20~17 : 30)

- 3G1-51[#] Closing Remarks** (17:20~17:30)

Room G2

Sixth Building 614

Coordination Chemistry, Organometallic Chemistry

Thursday, March 16, AM

Mo, W

Chair: MURAOKA, Takako (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1G2-01, 1G2-02, 1G2-04, 1G2-06)
- 1G2-01[#]** Synthesis of Cationic Hydrido(borylene)tungsten Complexes Stabilized by N-Heterocyclic Carbene and Their Reactions with Internal Alkynes (Grad. Sch. Sci., Tohoku Univ.) ◯HUI, Zeping; WATANABE, Takahito; TOBITA, Hiromi
- 1G2-02^{**}** Reactions of a Tungsten Silylyne Complex Having an Eind Group on Its Silicon Atom with Aldehydes and Aldimines (Grad. Sch. Sci., Tohoku Univ.) ◯YOSHIMOTO, Takashi; HASHIMOTO, Hisako; HAYAKAWA, Naoki; MATSUO, Tsukasa; TOBITA, Hiromi
- 1G2-04^{**}** Preparation of Highly Active Olefin Metathesis Catalyst Using Well-defined Tungsten Oxo Surface Species with Organosilicon Reductants (Grad. Sch. Eng. Sci., Osaka Univ.; ETH Zurich) ◯NAGAE, Haruki; MOUGEL, Victor; CHAN, Ka-wing; SIDDIQI, Georges; KAWAKITA, Kento; TSURUGI, Hayato; SAFONOVA, Olga; COPERET, Christoph; MASHIMA, Kazushi
- 1G2-06** Conversion of Dinitrogen into Ammonia under Mild Reaction Conditions by Using Water as a Proton Source (Grad. Sch. Eng., The Univ. of Tokyo) ◯TANABE, Yoshiaki; ARASHIBA, Kazuya; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

Chair: KOMURO, Takashi (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** A Pyridine-Stabilized Silanone-tungsten Complex: Synthesis, Structure, and Reaction with PMe₃ (Sch. Sci. Tech., Gunma Univ.) ◯TSUCHIMOTO, Masato; ICHIMURA, Yusuke; MURAOKA, Takako;

UENO, Keiji

- 1G2-09^{*}** Catalytic Formation of Ammonia via Direct Cleavage of N-N Triple Bond (Grad. Sch. Eng., The Univ. of Tokyo) ◯ARASHIBA, Kazuya; EIZAWA, Aya; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 1G2-11** Catalytic Formation of Ammonia via Direct Cleavage of N-N Triple Bond: Substituent Effect of PNP-type Pincer Ligands (Grad. Sch. Eng., The Univ. of Tokyo) ◯MORI, Ikki; ARASHIBA, Kazuya; EIZAWA, Aya; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 1G2-12** Formation of Ammonia Catalyzed by Molybdenum Complexes Bearing PCP Ligand via Direct Cleavage of N-N Triple Bond (Grad. Sch. Eng., The Univ. of Tokyo) ◯EIZAWA, Aya; ARASHIBA, Kazuya; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

Fe, Ru

- 1G2-13** Synthesis of iron complexes with P,N,O-tridentate Schiff bases (Grad. Sch. Sci., Osaka Univ.) ◯ADACHI, Miwako; KUSUMOTO, Masaaki; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro

Chair: OHKI, Yasuhiro (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1G2-15, 1G2-16, 1G2-18, 1G2-19)
- 1G2-15** Development of Photoacid Generators with a Ferrocenyl Group as the Chromophore Unit (Grad. Sch. Sci. Eng., Chuo Univ.) ◯TAKAHASHI, Yukihiko; KODAMA, Shintaro; ISHII, Youichi
- 1G2-16^{*}** Theoretical study on nitrogen fixation catalyzed by an iron-dinitrogen complex bearing a PNP-type pincer ligand (IMCE, Kyushu Univ.; Grad. Sch. Eng., The Univ. of Tokyo) ◯TANAKA, Hiromasa; MATSUO, Yuki; KURIYAMA, Shogo; ARASHIBA, Kazuya; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki; YOSHIZAWA, Kazunari
- 1G2-18** Synthesis and Catalytic Activity of a Series of Iron-Dinitrogen Complexes Bearing PNP-Type Pincer Ligands Based on 3,4-Substituted Pyrrole Skeleton (Grad. Sch. Eng., The Univ. of Tokyo) ◯SEKIGUCHI, Yoshiya; EIZAWA, Aya; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 1G2-19^{**}** Theoretical Studies of the Catalytic Hydrogenation of Alkenes by a series of Disilametallacyclic iron and ruthenium Complexes (IMCE, Kyushu Univ.) ◯TAHARA, Atsushi; TANAKA, Hiromasa; SUNADA, Yusuke; SHIOTA, Yoshihito; YOSHIZAWA, Kazunari; NAGASHIMA, Hideo

Thursday, March 16, PM

Chair: NAKAJIMA, Kazunari (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1G2-28, 1G2-29, 1G2-30, 1G2-31, 1G2-32, 1G2-33)
- 1G2-28** Synthesis and reactivity of iron trinuclear complexes that contain trisaminemethylbenzene skeletal ligands. (Grad. Sch. Sci., Osaka Univ.) ◯TAITO, Kuroki; TSUBASA, Hatanaka; YASUHIRO, Funahashi
- 1G2-29** Synthesis of Multinuclear Complexes of Low-valent Iron with 1,3,5-Triaminoarylbenzene (Grad. Sch. Sci., Osaka Univ.) ◯KAWAHARA, Kazuya; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro
- 1G2-30** Synthesis and reaction of Iron(II) and Cobalt(II) bearing tridentate Schiff base ligand (Fac. Sci., Fukuoka Univ.) ◯SHIN, Sayaka; MATSUBARA, Kouki; KOGA, Yuji
- 1G2-31** Hydrosilylation reaction of carbonyl compounds catalyzed by iminobipyridine iron complexes (Grad. Sch. Sci., Osaka City Univ.) ◯IZUMORI, Yosuke; TOYA, Yuki; HAYASAKA, Kazumasa; NAKAZAWA, Hiroshi
- 1G2-32** Catalytic Alcohol Dehydrogenation Promoted by an Iron Complex Bearing 2-Pyridinylbenzylalcohols as a Non-innocent Ligand (Grad. Sch. Sci., Kitasato Univ.; Grad. Sch. Sci., Osaka City Univ.) ◯SUZUKI, Soichiro; KAMITANI, Masahiro; NAKAZAWA, Hiroshi; YUGE, Hidetaka
- 1G2-33** Synthesis and reactivity of a triruthenium methylidene complex supported by a μ_3 -sulfido ligand. (Sch. Mater. & Chem. Tech., Tokyo Tech.) ◯CHIKAMORI, Hiroki; TAKAO, Toshiro

Chair: KOMINE, Nobuyuki (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1G2-35, 1G2-36, 1G2-38, 1G2-39, 1G2-40)
- 1G2-35** Hydrogen Oxidation in Water Catalyzed by Diruthenium Complexes Bearing Various Thiolate Ligands (Grad. Sch. Eng., The Univ. of Tokyo) ◯YUKI, Masahiro; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 1G2-36^{**}** Formation of an Agostic P-H Bond on a Sterically Demanding Diruthenium Complex (Grad. Sch. Sci., Eng., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ◯SHIMOGAWA, Ryuichi; TSURUMAKI, Yohei; KUZUTANI, Takuya; SUZUKI, Hiroharu; TAKAO, Toshiro
- 1G2-38** Selective hydrogenation of benzonitriles to benzylamines catalyzed by trinuclear ruthenium complexes having a μ -CO ligand (Grad. Sch. Sci., Eng., Tokyo Tech.) ◯HORIKOSHI, Sachie; KAWASHIMA, Takashi; TAKAO, Toshiro
- 1G2-39** Properties of a Triruthenium trihydrido complex having a bridging carbonyl ligand (Grad. Sch. Sci., Eng., Tokyo Tech.) ◯TAKAHASHI, Yuta; TAKAO, Toshiro
- 1G2-40** Reactivity and Stereochemistry of Cyclopentadienyl Ruthenium Complexes with Chalcogenocarbonyl Ligand (Fac. Sci., TUS) ◯SUZUKI,

Ayumi; MUTOH, Yuichiro; SAITO, Shinichi

Chair: KUWATA, Shigeki (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** Synthesis of and Catalytic Cross-Dimerization Using Substituted Alkenes by a Ru(0) Complex Having 5-Phenyldibenzo[a,e]cyclooctatetraene (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○TANAKA, Yukino; KOMINE, Nobuyuki; HIRANO, Masafumi
- 1G2-43** Synthesis of New Ru(0) Complex Having a Chiral Bicyclo[2.2.1]heptadiene and Enantioselective Cross-Dimerization between Conjugated Dienes and 2,5-Dihydrofuran (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Department of Chemistry, National Taiwan Normal University) ○ABE, Ryota; KOMINE, Nobuyuki; WU, Hsyueh-liang; HIRANO, Masafumi
- 1G2-44** Ru(0)-Catalyzed Direct Coupling between Diynylbenzenes and Conjugated Dienes: A Straightforward Synthesis of Hexaene Derivatives (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SAITO, Ryo; KIYOTA, Sayori; KOMINE, Nobuyuki; HIRANO, Masafumi
- 1G2-45** Hydroboration and Hydrosilylation Reactions of Nitriles Catalyzed by 16-Electron Bis(silyl)ruthenium Complexes (Grad. Sch. Sci., Tohoku Univ.) ○KITANO, Takeo; ONO, Rikima; KOMURO, Takashi; TOBITA, Hiromi
- 1G2-46** Ru-catalyzed addition of aryl phosphinic acids to internal alkynes (Grad. Sch. Urban Environmental Sci., TMU; ESICB Kyoto Univ.; TMU RCHBS) ○TERAJIMA, Sachie; MIURA, Hiroki; SHISHIDO, Tetsuya
- 1G2-47[#]** Reactions of Aldehydes or Ketones with Dihydrosilanes Catalyzed by a Hydrido(silylene)ruthenium Complex (Grad. Sch. Sci., Tohoku Univ.) ○NONAKA, Hiroyuki; HASHIMOTO, Hisako; TOBITA, Hiromi
- Chair: MIURA, Hiroki (17 : 00~17 : 40)
- * 16:50-17:00: interval for laptop PC connection.(1G2-49, 1G2-51, 1G2-52)
- 1G2-49^{*}** Synthesis and Reactivities of Proton-responsive Dinuclear Complexes Bridged by Diphosphine Ligand (Sch. Mater. & Chem. Tech., Tokyo Tech.; PRESTO, JST) ○TODA, Tatsuro; KUWATA, Shigeki
- 1G2-51** Reactions of Protic Pyrazoleruthenium Complex with Propargylic Alcohols (Sch. Mater. & Chem. Tech., Tokyo Tech.; PRESTO, JST) ○NAOTO, Tashima; SIGEKI, Kuwata
- 1G2-52** Synthesis of Organometallic polyyne molecular wire and single-molecule conductance measurements. (Lab. Chem. Life Sci., Tokyo Tech.) ○KATO, Yuya; TANAKA, Yuya; FUJII, Shintaro; KIGUCHI, Manabu; AKITA, Munetaka

Chair: HASHIMOTO, Hisako (17 : 50~18 : 20)

- * 17:40-17:50: interval for laptop PC connection.(1G2-54, 1G2-55)
- 1G2-54** Liquid crystalline octahedral ruthenium complex: the effect of Δ , Λ chirality on the liquid crystal phase (Graduate School of Science, Kitasato University) ○SUZUKI, Kota; WATANABE, Hideyo; YOSHIDA, Jun; YUGE, Hidetaka

Co

- 1G2-55[#]** Cobalt or Iron Isocyanide Complexes Catalyzed Hydrosilylation of Alkenes with Hydrosiloxanes (IMCE, Kyushu Univ.) ○SANAGAWA, Atsushi; NAGASHIMA, Hideo

Asian International Symposium -Coordination Chemistry, Organometallic Chemistry-

Friday, March 17, PM

Chair: Oshio, Hiroki (13 : 00~14 : 30)

- 2G2-25[#] Keynote Lecture** Coordination Controllable Single-Molecule Magnets with Enhanced Anisotropic Energy Barrier (Xi'an Jiaotong University) ○Zheng, Yan-Zhen (13:00~13:30)
- 2G2-28[#] Invited Lecture** Controlled Assembly of Conducting Polymer Chains in MOFs (Kyoto Univ.) ○Uemura, Takashi (13:30~13:50)
- 2G2-30[#] Invited Lecture** Surface Coordination and Catalysis with Metal Complexes (Nagoya Univ.) ○Tada, Mizuki (13:50~14:10)
- 2G2-32[#] Invited Lecture** Tuneable Photoactivation of Hybrid Polyoxometalates Through Orbital Engineering (Tsukuba Univ.) ○Cameron, Jamie M. (14:10~14:30)

(14 : 30~14 : 40)

- 2G2-34[#] Computer Setting and Break** (14:30~14:40)

Chair: Yamashita, Makoto (14 : 40~15 : 50)

- 2G2-35[#] Keynote Lecture** Catalytic Alkane Functionalizations and Related Reactions (Shanghai Institute of Organic Chemistry) ○Huang, Zheng (14:40~15:10)
- 2G2-38[#] Invited Lecture** Synthesis, Structure, and Catalysis of Newly Designed Palladium Complexes Having a Heavier Group 13 Metalloligand (Tokyo Tech) ○Takaya, Jun (15:10~15:30)
- 2G2-40[#] Invited Lecture** Catalyst Design for Polar Monomer Copoly-

merization (Univ. Tokyo) ○Shingo, Ito (15:30~15:50)

(15 : 50~16 : 00)

- 2G2-42[#] Computer Setting and Break** (15:50~16:00)

Chair: Itoh, Shinobu (16 : 00~17 : 00)

- 2G2-43[#] Invited Lecture** Artificial metalloenzyme using cupin protein as metal-binding platform (Osaka Univ.) ○Fujieda, Nobutaka (16:00~16:20)
- 2G2-45[#] Invited Lecture** Hemoprotein engineered with unnatural cofactors toward artificial metalloenzymes (Osaka Univ.; JST) ○Oohora, Koji (16:20~16:40)
- 2G2-47[#] Invited Lecture** Iron Complexes of a Quadruply Fused Porphyrin: Synthesis, Structure and Redox Properties (Tsukuba Univ.) ○Ishizuka, Tomoya; Komamura, Keiyu; Saegusa, Yuta; Kojima, Takahiko (16:40~17:00)

Coordination Chemistry, Organometallic Chemistry

Saturday, March 18, AM

Co, Rh, Ir

Chair: OKADA, Yoshiharu (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** Synthesis and Reaction of Late First-Row Transition Metal Complexes with a Terphenyldiamide Ligand (Grad. Sch. Sci., Osaka Univ.) ○YAMADA, Yuka; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro
- 3G2-02** Synthesis and Reactivity of Rh and Ir Complexes That Contain (bpy)2Ru(PPh2)2 Unit as a Bidentate P-donor Ligand. (Osaka Pref. Univ.) ○KITAMURA, Manami; NISHIMORI, Rie; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki
- 3G2-03** Syntheses of light-sensitizing di- and trinuclear rhodium complexes ligated by diphosphines having fluorene moiety (Grad. Sch. Sci. Eng., TMU) ○SHITAYA, Shoji; MATSUSAKA, Yuko; NOMURA, Kotohiro; INAGAKI, Akiko
- 3G2-04** Synthesis of Tethered Rhodium and Iridium Complexes Derived from a Fluorinated Diamine Ligand (Sch. Mater. & Chem. Tech., Tokyo Tech.; PRESTO, JST) ○NAKAMURA, Hitomi; MATSUNAMI, Asuka; KUWATA, Shigeki; KAYAKI, Yoshihito
- 3G2-05** Synthesis, Structure, and Reactivity of Group 13 Metal-Rhodium Bimetallic Complexes — Unique Structure and Reactivity Differences between Al, Ga, and In as a Supporting Ligand— (Grad. Sch. Sci., Eng., Tokyo Tech.) ○UEKI, Kanako; SAITO, Narumasa; TAKAYA, Jun; IWASAWA, Nobuharu
- 3G2-06** Formation of a rhodium(I) complex with a cyclic phosphonium ligand via P—C reductive elimination (Grad. Sch. Sci. Eng., Chuo Univ.) ○NAKAMURA, Takayuki; KODAMA, Shintaro; ISHII, Youichi

Chair: INAGAKI, Akiko (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** Complexation of Cationic Rhodium(I) Precursors with Alkyne-Based Bisphosphine Ligands (Grad. Sch. Eng., Kyoto Univ.) OKAMOTO, Kazuhiro; OEGUCHI, Akira; OHE, Kouichi
- 3G2-09** Reactivity of Rhodium Complexes Bearing PAIP Pincer Ligands (Grad. Sch. Eng., Kyoto Univ.) ○HARA, Naofumi; SAITO, Teruhiko; NAKAO, Yoshiaki; SAKAKI, Shigeyoshi; ZHENG, Hong
- 3G2-10** Asymmetric Synthesis of α -Phosphonoazetidiones (Fac. Eng., Kindai Univ.) OKADA, Yoshiharu; ○MATSUBA, Chiho; NOMURA, Masato
- 3G2-11** Synthesis and Properties of New C-N Chelate Ir Complexes with Pyrazole-Amine Ligand (Sch. Mater. & Chem. Tech., Tokyo Tech.; PRESTO, JST) ○YOSHIMURA, Atsuki; KUWATA, Shigeki; KAYAKI, Yoshihito
- 3G2-12** Synthesis of Protic 2-Pyridylidene Complexes of Iridium and Ruthenium (Sch. Mater. & Chem. Tech., Tokyo Tech.; PRESTO, JST) ○SAWAZAKI, Taka; KAYAKI, Yoshihito; KUWATA, Shigeki
- 3G2-13** Synthesis and Reactivity of New Oxo-Bridged Low-Valent Iridium Complexes (Grad. Sch. Sci., Osaka Pref. Univ.) ○TSUJIMOTO, Takayuki; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki

Chair: TAKEMOTO, Shin (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3G2-15, 3G2-16, 3G2-17, 3G2-18, 3G2-19, 3G2-20)
- 3G2-15** Synthesis, Structures, and Reactions of Iridium Complexes Having an Asymmetric Bis(silyl) Chelate Ligand (Grad. Sch. Sci., Tohoku Univ.) ○ASAGAMI, Junpei; KOMURO, Takashi; TOBITA, Hiromi
- 3G2-16** Group 9 Metal Complexes Having a Silyl-Bipyridine SiNN-Type Pincer Ligand: Synthesis and Application to Catalytic C-H Borylation (Grad. Sch. Sci., Tohoku Univ.) ○MOCHIZUKI, Daiki; KOMURO, Takashi; TOBITA, Hiromi
- 3G2-17** Syntheses and Reactions of Mononuclear Iridium Hydride Complexes Supported by a Tetrakisphosphine *meso*-dpmpm (Fac. Sci., Nara Women's

Univ.) O MORI, Natsumi; NAKAMAE, Kanako; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki

- 3G2-18** Deprotonation and C-C Bond Formation of Hydrazones Using Amidoiridium Complexes Bearing a C-N Chelate Ligand (Sch. Mater. & Chem. Tech., Tokyo Tech.; PRESTO, JST) OHIRASHIMA, Ryo; KUWATA, Shigeki; KAYAKI, Yoshihito
- 3G2-19** Stepwise Deprotonation of Dioxime Ligand in Half-sandwich-type Iridium Complexes (Sch. Mater. & Chem. Tech., Tokyo Tech.; PRESTO, JST) OTAKAMURA, Taishin; KUWATA, Shigeki
- 3G2-20** Synthesis of Half-Sandwich Iridium Dichloride Monomer (Grad. Sch. Sci., Eng., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) OSHIMOGAWA, Ryuichi; SUZUKI, Hiroharu; TAKAO, Toshiro

Saturday, March 18, PM

Chair: KAYAKI, Yoshihito (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3G2-28, 3G2-29, 3G2-30, 3G2-31, 3G2-32, 3G2-33)
- 3G2-28** Reactivities of Dimeric Iridium Complexes Having an Ir-Ir Bond Formed by Dimerization of Alkyne-Bisphosphine Ligands (Grad. Sch. Eng., Kyoto Univ.) OSASAKURA, Kohei; OKAMOTO, Kazuhiro; OHE, Kouichi
- 3G2-29** Transformation of 1,3-Butadiynes at an Ir(III) Complex Having a Substituted Pyridylphenyl Ligand (Grad. Sch. Sci. Eng., Chuo Univ.) OAKIYAMA, Seiji; KODAMA, Shintaro; ISHII, Youichi
- 3G2-30** Vinylidene Rearrangement of Acyl Alkynes in an Iridium Complex (Grad. Sch. Sci. Eng., Chuo Univ.) OTAKAMORI, Shuhei; KISHI, Satoshi; WATANABE, Takahiro; IKEDA, Yosuke; KODAMA, Shintaro; ISHII, Youichi
- 3G2-31[#]** Hydrosilylation reaction of sulfur-functionalized olefins catalyzed by iridium complexes (AIST) OSRINIVAS, Venu; NAKAJIMA, Yumiko; SATO, Kazuhiko; SHIMADA, Shigeru
- 3G2-32** Hydrosilane Synthesis by Iridium-Catalyzed Hydrogenolysis of Halosilanes (IRC3, AIST) OBEPPEU, Teruo; NAKAJIMA, Yumiko; MATSUMOTO, Kazuhiro; SATO, Kazuhiko; SHIMADA, Shigeru
- 3G2-33** An Iridium-catalyzed Reductive Nucleophilic Addition to Amide (Grad. Sch. Sci. Tech., Keio Univ.) OTAKAHASHI, Yoshito; YORITATE, Makoto; NAKAJIMA, Minami; SATO, Takaaki; CHIDA, Noritaka

Chair: NAKAJIMA, Yumiko (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3G2-35, 3G2-36, 3G2-37, 3G2-39)
- 3G2-35** Catalytic Hydrogen Generation from Formic Acid Using Iridium Complexes with *N*-Triflylated Diamine Ligands (Sch. Mater. & Chem. Tech., Tokyo Tech.; PRESTO, JST) O MATSUNAMI, Asuka; KUWATA, Shigeki; KAYAKI, Yoshihito
- 3G2-36** Asymmetric Hydrogenation of 1,2-Diimines Catalyzed by Iridium Complexes Bearing an Optically Active *N*-Sulfonyldiamine Ligand (Sch. Mater. & Chem. Tech., Tokyo Tech.; PRESTO, JST) OSONODA, Yuya; MATSUNAMI, Asuka; KUWATA, Shigeki; KAYAKI, Yoshihito
- 3G2-37^{**}** Efficient Hydrogen Storage and Production using an Iridium Catalyst with an Imidazole-Based Proton-Responsive Ligand in Water (AIST) OWANG, Lin; ONISHI, Naoya; MURATA, Kazuhisa; HIROSE, Takuji; MUCKERMAN, James T.; FUJITA, Etsuko; HIMEDA, Yuichiro

Ni, Pd, Pt

- 3G2-39^{**}** Chirality transfer of optically active allenens through nickel-catalyzed hydrocyanation and its application to hydrocyanative cyclization (Grad. Sch. Pharm. Sci., Chiba Univ.) OAMAKO, Yuka; ARAI, Shigeru; NISHIDA, Atsushi

Chair: TANABE, Makoto (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3G2-42, 3G2-44, 3G2-46, 3G2-47)
- 3G2-42^{**}** Multicomponent coupling reaction of alkyl halides, aryl Grignard reagents, and two molecules of 1,3-dienes catalyzed by an anionic Ni complex (Graduate School of Engineering, Osaka University) OIWASAKI, Takanori; MIN, Xin; FUKUOKA, Asuka; YOKOYAMA, Wataru; KUNIYASU, Hitoshi; KAMBE, Nobuaki
- 3G2-44*** Mechanistic studies in Buchwald-Hartwig Amination Catalyzed by Monomeric Nickel(I)/NHC complexes (Fac. Sci., Fukuoka Univ.) OINATOMI, Takahiro; KOGA, Yuji; MATSUBARA, Kouki
- 3G2-46[#]** Silyl-Heck Reaction of Chlorosilanes by Nickel/Lewis Acid Catalysis (IRC3, AIST) OHUANG, Jiadi; MATSUMOTO, Kazuhiro; NAKAJIMA, Yumiko; SATO, Kazuhiko; SHIMADA, Shigeru
- 3G2-47[#]** C(sp³)-F Bond Cleavage of α -Fluorocarbonyl Compounds with Ni(0)/NHC Complex (Sch. Eng., Osaka Univ.) OYU, Tinghui; SAKAGUCHI, Hironobu; OHASHI, Masato; OGOSHI, Sensuke

Chair: OHASHI, Masato (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(3G2-49, 3G2-50, 3G2-51, 3G2-52, 3G2-53, 3G2-54)
- 3G2-49[#]** Synthesis of bulky, electron rich PNP pincer ligand and their Ni

complexes (OIST Coordination Chemistry and Catalysis Unit)

- OLAPOINTE, Sebastien; KHASKIN, Eugene; KHUSNUTDINOVA, Julia
- 3G2-50** Control of the Metal Nuclearity between the α, ω -Diarylpolyene Ligands (Sch. Mater. & Chem. Tech., Tokyo Tech.) OYAMASHITA, Mitsuki; YAMAMOTO, Koji; MURAHASHI, Tetsuro
- 3G2-51** Synthesis and Property of Cationic Dipalladium Complexes Bridged by Triflyloxygermylene and Hydrido Ligands. (Grad. Sch. Sci., Eng., Saitama Univ.) OHIRAI, Yuri; NAKATA, Norio; ISHII, Akihiko
- 3G2-52** Control of coordination polymerization of styrenes and vinyl ethers by light-sensitizing palladium complex (Grad. Sch. Sci. Eng., TMU) OKIKUCHI, Shinnosuke; AKITA, Munetaka; INAGAKI, Akiko
- 3G2-53** Preparation of silylene-bridged multinuclear transition metal complexes and bond conversion of diene on their multiple metal centers (Lab. Chem. Life Sci., Tokyo Tech.) ONIWA, Takaaki; OSAKADA, Kohtaro; TANABE, Makoto; NAKAMURA, Yu
- 3G2-54** Mixed-Ligand Approach to Highly Selective Direct Arylation Polymerization: Synthesis of Donor-Acceptor Polymers Containing 2,2'-Bithiophene Units (ICR, Kyoto Univ.) OMORITA, Hazuki; WAKIOKA, Masayuki; OZAWA, Fumiyuki

Sunday, March 19, AM

Chair: TAKEUCHI, Katsuhiko (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4G2-01, 4G2-02, 4G2-03, 4G2-04, 4G2-05, 4G2-06)
- 4G2-01** Synthesis and Properties of Palladium Trifluoromethyl Complexes That Contain (bpy)₂Ru(PPh₃)₂ Unit as a P-donor Ligand (Grad. Sch. Sci., Osaka Pref. Univ.) O SARUWATARI, Shuhei; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki
- 4G2-02** Catalytic Ge-F σ -Bond Activation by Palladium Complex (Grad. Sch. Sci., Osaka Pref. Univ.) OISASA, Tomohito; KAMEO, Hajime; MATSUZAKA, Hiroyuki
- 4G2-03** Pd-Catalyzed Successive C-O/C-H Bond Activation Reaction of Benzyl Trifluoroacetate Derivatives (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OSUDA, Ryoko; KAWAZU, Sosuke; KOMINE, Nobuyuki; HIRANO, Masafumi
- 4G2-04** Mechanistic Insight into Dehydrogenative Arene Coupling of Dimethyl Phthalate (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Eng. Sci., Osaka Univ.; ICR, Kyoto Univ.) OSANO, Kosuke; KOMINE, Nobuyuki; MITSUDOME, Takato; TAKAYA, Hikaru; HIRANO, Masafumi
- 4G2-05** Semihydrogenation of Alkyne catalyzed by imidazo[1,5-*d*]pyridine-3-ylidene complexes (Fac. Eng., Gifu Univ.) OMIZUNO, Takahiro; KOTO, Yuma; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 4G2-06** C-H and Si-H bond activation by pincer carbodiphosphorane-platinum complexes (Grad. Sch. Sci., Hiroshima Univ.) OMIWA, Hiroto; OKITSU, Hiroyuki; IKEDA, Aya; KUBO, Kazuyuki; KUME, Shoko; MIZUTA, Tsutomu

Chair: KAMEO, Hajime (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4G2-08, 4G2-09, 4G2-11, 4G2-12, 4G2-13)
- 4G2-08** PNP-Pincer Type Phosphaalkene Platinum(0) Complexes with a Square Planar Configuration (ICR, Kyoto Univ.; Fac. Sci. Eng., Kindai Univ.; IMCE, Kyushu Univ.) OTAGUCHI, Hiro-omi; TANIGAWA, Ipppei; TAKEUCHI, Katsuhiko; MATSUO, Tsukasa; TANAKA, Hiromasa; YOSHIZAWA, Kazunari; OZAWA, Fumiyuki
- 4G2-09^{**}** Addition of Cationic Species on Electron-Rich Multinuclear Complexes with Bridging Germylene Ligands (Lab. Chem. Life Sci., Tokyo Tech.) OTANAKA, Kimiya; TANABE, Makoto; OSAKADA, Kohtaro
- 4G2-11** Preparation of New Platinum Complexes using Transmetalation of Arylboronic Acids (Lab. Chem. Life Sci., Tokyo Tech.) ONODA, Hiroki; TANAKA, Kimiya; OSAKADA, Kohtaro

Cu, Ag, Au

- 4G2-12** Synthesis of vinyl-gold complexes from pyrimidyl-substituted aminoalkynes (Fac. Sci., Shizuoka Univ.) OTANAKA, Yosuke; NISHINA, Naoko
- 4G2-13** An Introverted bis-Au Cavitan and its Catalytic Cross-dimerization of Terminal Alkynes (Grad. Sch. Sci. Tech., Ryukoku Univ.) OENDO, Naoki; KANAURA, Mao; IWASAWA, Tetsuo

Chair: MATSUO, Tsukasa (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4G2-15, 4G2-16, 4G2-17, 4G2-18, 4G2-19, 4G2-20)
- 4G2-15** Synthesis and Reactivity of Silver(I) Perfluoroalkoxide Complex (Sch. Eng., Osaka Univ.) OHASHIMOTO, Yu; ISHIDA, Naoyoshi; OHASHI, Masato; OGOSHI, Sensuke
- 4G2-16** Synthesis of Internal Alkynes via Suzuki-Miyaura Type Coupling Reaction of Bromoalkynes Using Hydrazone-Cu Catalyst (Grad. Sch. Eng., Chiba Univ.) MINO, Takashi; OWATANABE, Kohei; ISHIKAWA, Eri; YOSHIDA, Yasushi; SAKAMOTO, Masami
- 4G2-17** Synthesis of Internal Alkynes via Suzuki-Miyaura Type Coupling Reaction of Dibromoalkenes Using Hydrazone-Cu Catalyst (Grad. Sch. Eng.,

Chiba Univ.) MINO, Takashi; OHATTA, Chikako; WATANABE, Kohei; YOSHIDA, Yasushi; SAKAMOTO, Masami

- 4G2-18** Synthesis, Structure and Reactivity of Copper Amide Complexes having a N-Heterocyclic Carbene Ligand (Grad. Sch. Eng., Kyoto Univ.)
 OTANAHASHI, Takumi; FUJIHARA, Tetsuaki; TERAU, Jun; TSUJI, Yasushi
- 4G2-19** T-shaped cationic copper complexes with PNP-pincer type phosphane ligands: Synthesis and applications to catalytic reduction of CO₂ (ICR, Kyoto Univ.) OTANAKA, Yuto; TAKEUCHI, Katsuhiko; OZAWA, Fumiyuki
- 4G2-20** Fluxional Behaviors of an Octanuclear Copper Hydride Complex Supported by Diphosphine Ligands and Its Reactions with CO₂ and CO (Fac. Sci., Nara Women's Univ.) OTANAKA, Miho; NAKAMAE, Kanako; URA, Yasuyuki; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki

Sunday, March 19, PM

Ti, Cu

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

- * 13:20-13:30: interval for laptop PC connection.(4G2-28, 4G2-29, 4G2-30, 4G2-31, 4G2-32)
- 4G2-28** Reactivity of Copper(I) and Copper(II) Complexes Supported by N4 Ligands toward Nitric Oxide (Grad. Sch. Eng., Osaka Univ.) OINOUE, Keisuke; MORIMOTO, Yuma; ITOH, Shinobu
- 4G2-29** Synthesis of Tetranuclear Copper(I) Hydride Complexes Supported by Linear Tetrakisphosphines *rac*-dpmppe (Fac. Sci., Nara Women's Univ.) OKAMIRYO, Yoshia; HACHIKEN, Kanae; NAKAMAE, Kanako; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 4G2-30** Synthesis and Structures of Titanium Complexes with Bulky Carboxylate Ligands (Grad. Sch. Sci. Eng., Kindai Univ.) OSUZUKI, Nobuhisa; NISHII, Mamiko; KANAZAWA, Shoya; YASUKI, Naoki; MATSUO, Tsukasa
- 4G2-31** Relationship between adsorption properties and crystal structures of novel titanium complexes composed of a Ti₆O₈ cluster (IMRAM, Tohoku Univ.) OSAKABE, Hiroki; OKUHARA, Tatsuya; KOBAYASHI, Makoto; KATO, Hideki; SATO, Sota; KAKIHANA, Masato
- 4G2-32** Perfectly alternating donor-acceptor architecture mediated by coordination nanopores (Grad. Sch. Eng., Kyoto Univ.) OKITAO, Takashi; UEMURA, Takashi; KITAGAWA, Susumu

Room G3

Sixth Building J631

Coordination Chemistry, Organometallic Chemistry

Thursday, March 16, AM

Bioinorganic chemistry

Chair: ONODA, Akira (9 : 40 ~10 : 40)

- * 9:30-9:40: interval for laptop PC connection.(1G3-05, 1G3-06, 1G3-07, 1G3-09)
- 1G3-05** Development of dicopper complex that selectively binds G-quadruplex DNA (Fac. Sci. Eng., Doshisha Univ.) OSAITO, Itsuki; KADOYA, Yuki; FUKUI, Katuki; HITOMI, Yutaka; KODERA, Masahito
- 1G3-06** Development of dicopper complexes promoting oxidative cleavage of DNA (Grad. Sch. Eng., Doshisha Univ.) OKADOYA, Yuki; TOTTORI, Tomoki; FUKUI, Katsuki; HITOMI, Yutaka; KODERA, Masahito
- 1G3-07** DNA binding and cytotoxicity of Fe/Pt based organometallic metallo-supramolecular polymers (Adv. Key Tech. Div., NIMS) ORANA, Utpal; HIGUCHI, Masayoshi
- 1G3-09** Elucidation of Hydroxylation Mechanism of Tyrosinase Based on the Crystal Structures (Grad. Sch. Eng., Osaka Univ.) UMAKOSHI, Kyohei; OFUJIEDA, Nobutaka; ITOH, Shinobu

Chair: FUJIEDA, Nobutaka (10 : 50~11 : 50)

- * 10:40-10:50: interval for laptop PC connection.(1G3-12, 1G3-13, 1G3-14, 1G3-15, 1G3-17)
- 1G3-12** Catalytic Hydroxylation of Inert Alkanes Using Hemoproteins Reconstituted with Manganese Porphycene (Grad. Sch. Eng., Osaka Univ.; PRESTO, JST) ONITTA, Kosuke; CHIBA, Natsuno; OOHORA, Koji; HAYASHI, Takashi
- 1G3-13** Oxygen- and Carbon Monoxide-Binding Reactions of (Hemoglobin-Albumin) Cluster (Fac. Sci. Eng., Chuo Univ.) OKUREISHI, Moeka; KOMATSU, Teruyuki
- 1G3-14** Biohybrid Catalyst Containing an Azadithiolate-bridged Diiron Complex Embedded within a Cavity of β -barrel Protein Matrix: The Effect of a Proton Shuttle (Grad. Sch. Eng., Osaka Univ.) OAOKI, Ayumi;

ONODA, Akira; HAYASHI, Takashi

- 1G3-15** X-ray crystallographic observation of Au nucleation inside ferritin cage. (Grad. Sch. Biosci. Biotech., Tokyo Tech.) OMAITY, Basudev; ABE, Satoshi; UENO, Takafumi
- 1G3-17** Accumulation and Structure Observation of Au Ions on the Interior Surface of Ferritin Mutant (Sch. Biosci. Biotech., Tokyo Tech.) OITO, Nozomi; MAITY, Basudev; ABE, Satoshi; UENO, Takafumi

Thursday, March 16, PM

Chair: NAKAZAWA, Jun (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(1G3-25, 1G3-26, 1G3-27, 1G3-28, 1G3-30)
- 1G3-25** Evaluation of artificial Si(IV)-siderophore complex as a plant growth promoter (Grad Sch. Eng., Nagoya Inst. of Tech.) OSUZUKI, Naruhito; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki
- 1G3-26** pH-Dependent conformational changes of hybrid-type artificial iron-siderophore complexes (Grad Sch. Eng., Nagoya Inst. of Tech.) OENDO, Suguru; IDO, Hiroki; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki
- 1G3-27** Theoretical study on redox potentials and heterolytic Co-C bond dissociation energies of cobalt corrinoids with axial ligands (IMCE, Kyushu Univ.) OSAWADA, Akiyoshi; MORITA, Yoshitsugu; KAMACHI, Takashi; OOHORA, Koji; HAYASHI, Takashi; YOSHIZAWA, Kazunari
- 1G3-28** Alkene Reduction Followed by C-F bond cleavage Using B₁₂-TiO₂ Photocatalyst (Grad. Sch. Eng., Kyushu Univ.) OHUI, Tian; HISASHI, Shimakoshi; YOSHIO, Hisaeda
- 1G3-30** Catalytic silylation of N₂ by coordinatively unsaturated cobalt complex (Grad Sch. Eng., Nagoya Inst. of Tech.) SUZUKI, Tatsuya; OFUJIMOTO, Keisuke; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki

Chair: SHIMAKOSHI, Hisashi (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(1G3-32, 1G3-33, 1G3-34, 1G3-35, 1G3-36, 1G3-37)
- 1G3-32** Synthesis and reactivity of cyclophane type metal complexes bearing M-C bond for N₂ activation (Grad Sch. Eng., Nagoya Inst. of Tech.) OTAKEMOTO, Yoshiyuki; LI, Zilong; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki
- 1G3-33** Selective benzene hydroxylation with hydrogen peroxide catalyzed by dicopper(II) complexes with different dinucleating ligands having quinoline and isoquinoline pendant groups (Fac. Sci. Eng., Doshisha Univ.) OYATSUZUKA, Suguru; TSUJI, Tomokazu; HITOMI, Yutaka; KODERA, Masahito
- 1G3-34** Reactivity and identification of intermediates formed upon reaction of dinickel(II) complex with H₂O₂ (Grad. Sch. of Sci. and Eng., Doshisha Univ.) OZAOPUTRA, Antonius Andre; TSUJI, Tomokazu; HITOMI, Yutaka; KODERA, Masahito; OGURA, Takashi
- 1G3-35** Preparation of High-valent Cobalt Oxo complexes with N₂O₂ type ligand and Their Oxidation Reactions (Grad Sch. Eng., Nagoya Inst. of Tech.) OSENGYOKU, Tomonori; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki
- 1G3-36** The effect on the electron transfer process of olefin epoxidation by Oxoiron(IV) porphyrin π -cation radical complex. (Fac. Sci., Nara Women's Univ.) OISHIMIZU, Yuri; FUJII, Hiroshi
- 1G3-37** The Effect of Ligand on the Cleavage of O-Cl Bond of Hypochloritoiron(III) porphyrin Complexes (Grad. Sch. Human. Sci., Nara Women's Univ.) OYOKOTA, Sawako; FUJII, Hiroshi

Chair: NAKAZAWA, Jun (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(1G3-39, 1G3-40, 1G3-42, 1G3-43, 1G3-44)
- 1G3-39** A water-soluble model complex of the active center of cytochrome c oxidase (Fac. Sci. Eng., Doshisha Univ.) SHIMOJI, Daiki; OKITAGISHI, Hiroaki
- 1G3-40** Reactivity-Control of Cu(I) Complexes toward O₂ by Using 1,5-Diazacyclooctane-Based N₃ Ligands (Grad. Sch. Eng., Osaka Univ.) OABE, Tsukasa; MORIMOTO, Yuma; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu
- 1G3-42** Formation of Dioxigen Adducts of the Dicopper Center with Distorted Coordination Structure (Grad. Sch. Sci., Osaka Univ.) OWADA, Chihiro; NAGATA, Kojiro; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro
- 1G3-43** Construction of square-planar Co(III) complexes directed to selective nitric oxide sensing (Grad Sch. Eng., Nagoya Inst. of Tech.) OMISHINA, Ritsuko; OZAWA, Tomohiro; INOMATA, Tomohiko; MASUDA, Hideki
- 1G3-44** Synthesis of some N₄-type Co-nitrosyl complexes and the substituent effect for their properties (Grad Sch. Eng., Nagoya Inst. of Tech.) OGOTO, Shiori; KIMOTO, Yuya; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki

Chair: FUNAHASHI, Yasuhiro (16 : 30~17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(1G3-46, 1G3-48, 1G3-49, 1G3-50, 1G3-51)
- 1G3-46** Effect of axial phosphorus ligands on visible-light-induced CO-release

properties of N,C,S-pincer iron(III) complexes (Grad. Sch. Sci., Osaka City Univ.) ○NAKAE, Toyotaka; HIROTSU, Masakazu; NAKAJIMA, Hiroshi

- 1G3-48** Synthesis and Structure of Iron-Sulfur-Hydride Cluster (Fac. Sci. Eng., Kindai Univ.) ○SUGANO, Kohei; HAMURA, Masahiro; HAYAKAWA, Naoki; ARAAKE, Ryoichi; OHKI, Yasuhiro; MATSUO, Tsukasa
- 1G3-49** Synthesis and characterization of Ni complex with N, P-containing adamantane type ligand (Grad Sch. Eng., Nagoya Inst. of Tech.) ○DOBASHI, Masato; MASUDA, Hideki; OZAWA, Tomohiro; INOMATA, Tomohiko
- 1G3-50** The Stabilization of Phenoxyl Radical in Ni,Cu-salen Complexes with a Side Chain Indole Moiety (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○OSHITA, Hiromi; SHIMAZAKI, Yuichi
- 1G3-51** Synthesis and characterization of asymmetric dinuclear copper(II,III) complex as the model of pMMO (Fac. Eng. Nagoya Inst. of Tech.) ○NISHIMURA, Shibuki; OCHIAI, Tatsuya; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki

Re

Chair: SUZAKI, Yuji (17 : 40~18 : 40)

- * 17:30-17:40: interval for laptop PC connection.(1G3-53, 1G3-54, 1G3-55, 1G3-56, 1G3-57)
- 1G3-53** Synthesis and Structure of Sandwich Pd Sheet Clusters Containing a Bridging Cyclononatrienyl Ligand (Sch. Mater. & Chem. Tech., Tokyo Tech.; IMS) ○ISHIKAWA, Tomoko; YAMAMOTO, Koji; MURAHASHI, Tetsuro
- 1G3-54** Electrocatalytic reduction of low concentration of CO₂ by using a Re (I) complex as a catalyst (Sch. Sci., Tokyo Tech.) ○NISHIKAWA, Tetsuya; KUMAGAI, Hiromu; ISHITANI, Osamu
- 1G3-55** Synthesis and photocatalytic properties of metal complexes having carbon dioxide capture ability (Sch. Eng., TUT) ○MORIMOTO, Tatsuki; KITAMURA, Tomomi
- 1G3-56** Guest Responsivity Control of Porous Metal Complexes Using Luminescent Tetracyano Re(V) Building Unit (Grad. Sch. Sci., Kyushu Univ.) ○YAMATE, Hitomi; MIURA, Hiroki; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 1G3-57[#]** Synthesis and Photocatalytic Reactions of Novel Multinuclear Complexes Having Re(I)-Rings (Sch. Sci., Tokyo Tech.) ○YAMAZAKI, Yasuomi; KOIKE, Kazuhide; ISHITANI, Osamu

Friday, March 17, PM

Pd

Chair: KONDO, Shinichi (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(2G3-25, 2G3-26, 2G3-27, 2G3-29, 2G3-30)
- 2G3-25** Remarkable Stabilization of Cyclic Sulfur Compounds by An Anthracene-shelled Metallo capsule (IIR, Tokyo Tech.) ○MATSUNO, Sho; YAMASHINA, Masahiro; SEI, Yoshihisa; YOSHIZAWA, Michito; AKITA, Munetaka
- 2G3-26** Encapsulation of Oligo(lactic acid)s by an Anthracene-shelled Coordination Capsule in Water (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SHUNSUKE, Kusaba; MASAHIRO, Yamashina; MICHITO, Yoshizawa; MUNETAKA, Akita
- 2G3-27[#]** An Anthracene-Shelled Coordination Capsule: Selective Encapsulation of Disaccharide in Water (Lab. Chem. Life Sci., Tokyo Tech.) ○YAMASHINA, Masahiro; YOSHIZAWA, Michito; AKITA, Munetaka
- 2G3-29** Synthesis and Structures of Pd Complexes with Dithiacrown Ether Ligand (Lab. Chem. Life Sci., Tokyo Tech.) ○IWASAKI, Yumika; SUZAKI, Yuji; OSAKADA, Kohtaro
- 2G3-30** Preparation of core-shell crystals comprising Pd(II)-macrocyclic-assembled porous crystals with different halides (Grad. Sch. Sci., The Univ. of Tokyo; Grad. Sch. Sci., Rikkyo Univ.) ○MITSUI, Shinya; BURKE, David; TASHIRO, Shohei; MATSUSHITA, Nobuyuki; SHIONOYA, Mitsuhiko

Chair: YOSHIZAWA, Michito (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(2G3-32, 2G3-33, 2G3-35, 2G3-36, 2G3-37)
- 2G3-32** Catalytic Activity of New Palladium Complexes Bearing PS₃-type Tripodal Tetradentate Ligand (Sch. Sci. Tech., Gunma Univ.) ○OMA, Rin; TAKEDA, Nobuhiro; UNNO, Masafumi
- 2G3-33[#]** Stepwise Construction of a Pt^{II}₂Pd^{II}₂Ni^{II} Heterotrimetallic Coordination Polymer Showing a Cooperative Effect on Catalytic Hydrogen Evolution (Grad. Sch. Sci., Osaka Univ.) ○KUWAMURA, Naoto; KURIOKA, Yoshinari; KONNO, Takumi
- 2G3-35** Synthesis and structures of metal complexes including azo compounds as bi- or tridentate chelate ligands (Aichi Univ. of Educ.) ○ANDO, Daiki; YOSHIDA, Yuya; NAKAJIMA, Kiyohiko
- 2G3-36** Synthesis and Properties of Palladium Complexes with 3,3' -Diphenyl-2,2' -bipyridine Ligands (Grad. Sch. Eng., Kyoto Univ.) MIKI, Koji; ○TOKUNAGA, Daisuke; OHE, Kouichi
- 2G3-37** E → Z Isomerization of 1,3-diene using Pd(I)-Pd(I) dinuclear complex

(Sch. Mater. & Chem. Tech., Tokyo Tech.; IMS) ○KUDO, Eiji; KAWAMATA, Shiori; YAMAMOTO, Koji; MURAHASHI, Tetsuro

Chair: TASHIRO, Shohei (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(2G3-39, 2G3-41, 2G3-42, 2G3-43)
- 2G3-39[#]** Emission and Magnetic Property of Tb Complex with Tb-Pt Heterometallic Bond (Grad. Sch. Sci., Tohoku Univ.) ○YOSHIDA, Takefumi; COSQUER, Goulven; YAMASHITA, Masahiro
- 2G3-41[#]** Realization of Slow Magnetic Relaxation in Heterometallic Gadolinium Complex (Grad. Sch. Sci., Tohoku Univ.; Fac. Phy. Sci., Univ. of Nigeria, Chem.) ○IZUOGU, David Chukwuma; YOSHIDA, Takefumi; COSQUER, Goulven; YAMASHITA, Masahiro
- 2G3-42** Synthesis of pyridinr-type macrocyclic complex containing a rare earth element (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TSUKAMOTO, Tadashi; TAKATA, Toshikazu
- 2G3-43[#]** Synthesis of macrocyclic NCN-pincer ligand and its Pd complex (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○YAMAMOTO, Koji; OGAWA, Masahiro; NAMEKI, Riku; SOGAWA, Hiromitsu; TAKATA, Toshikazu

Chair: KOSHIYAMA, Tomomi (16 : 30~17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(2G3-46, 2G3-47, 2G3-48, 2G3-49, 2G3-51)
- 2G3-46** Reductive Coupling of Tropylium Trinuclear Sandwich Complexes Containing Platinum (Sch. Mater. & Chem. Tech., Tokyo Tech.; IMS) ○YAMAURA, Hiroshige; YAMAMOTO, Koji; MURAHASHI, Tetsuro
- 2G3-47** Coordination of Fused Arenes to a Pd₃ Arenophile (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SUGAWA, Tsuyoshi; YAMAMOTO, Koji; MURAHASHI, Tetsuro
- 2G3-48** Ultrasound-induced Gelation: Homo- and Hetero-chiral Aggregation with Clothespin-Shaped Binuclear Pd(II) Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○IKESHITA, Masahiro; ITAMI, Nao; KAWAMORITA, Soichiro; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 2G3-49[#]** Linker-Dependence of Association Chirality of Chiral Clothespin-Shaped Binuclear Pd(II) Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAITO, Masaya; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 2G3-51** Synthesis of a multinuclear Pd cluster stabilized by cycloheptatrienyl ligands (Sch. Mater. & Chem. Tech., Tokyo Tech.; IMS) ○IWATA, Kousuke; KURASHIMA, Kenta; TERAMOTO, Masahiro; YAMAMOTO, Koji; MURAHASHI, Tetsuro

Saturday, March 18, AM

Ce, Ti, Zr

Chair: ISHII, Akihiko (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3G3-01, 3G3-02, 3G3-03, 3G3-04, 3G3-05)
- 3G3-01** Copolymerization of Carbon Dioxide and Epoxide Catalyzed by Macrocyclic Complexes (Sch. Eng. Sci., Osaka Univ.) NAGAE, Haruki; ○AOKI, Ryota; KULEEMANN, Julian; TAGAWA, Risa; SPANIOL, Thomas P.; TURUGI, Hayato; OKUDA, Jun; MASHIMA, Kazushi
- 3G3-02** Reaction of an End-on [ONO] Titanium Dinitrogen Complex (Grad. Sch. Sci., Eng., Tokyo Tech.) ○HASEGAWA, Sui; ISHIDA, Yutaka; KAWAGUCHI, Hiroyuki
- 3G3-03[#]** Computational Studies on Titanium-Mediated Dinitrogen Cleavage and Hydrogenation by Dihydrogen (RIKEN CSRS) ○LUO, Gen; WANG, Baoli; HOU, Zhaomin
- 3G3-04** Synthesis and Structures of Titanium Alkyl Complexes with Bulky Monodentate Aryloxide Ligands (Fac. Sci. Eng., Kindai Univ.) ○WATAUCHI, Toshiki; KANAZAWA, Shoya; YASUKI, Naoki; SUZUKI, Nobuhisa; MATSUO, Tsukasa
- 3G3-05^{*}** Ring-Opening Reactions of Quinoline and Isoquinoline with a Low-Valent Titanium Alkyl Complex (Dept. Chem, UPenn) ○KUROGI, Takashi; BAIK, Mu-hyun; MINDIOLA, Daniel
- Chair: TSURUGI, Hayato (10 : 10~11 : 10)
- * 10:00-10:10: interval for laptop PC connection.(3G3-08, 3G3-10, 3G3-11, 3G3-12, 3G3-13)
- 3G3-08[#]** Transformation of Dihydroindenyl Titanium Complexes Featuring Carbon-Carbon Bond Cleavage and Formation (Inst. for Cat., Hokkaido Univ.) ○MIZUKAMI, Yuki; SONG, Zhiyi; TAKAHASHI, Tamotsu
- 3G3-10[#]** Research on Oxidative Ring-opening of Titana- and Zirconacyclopentene Derivatives (Inst. for Cat., Hokkaido Univ.) LI, Haijun; ○SONG, Zhiyi; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu
- 3G3-11** Copolymerization of Styrene with Divinylbenzene Using [OSSO]-type Bis(phenolato) Zirconium Complexes (Grad. Sch. Sci., Eng., Saitama Univ.) ○NAKAMURA, Kazuaki; NAKATA, Norio; ISHII, Akihiko
- 3G3-12** Synthesis of allenyl alcohols from 1,3-enynes (Grad. Sch. of Sci. Technol., Sophia Univ.) ○HOSOYA, Makoto; MASUYAMA, Yoshiro; SUZUKI, Noriyuki
- 3G3-13** Syntheses and reactivities of group 4 transition-metal hydrosilylamido complexes possessing a pentamethylcyclopentadienyl ancillary ligand (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○HATANAKA, Hiroki; OHTA, Shun;

OKAZAKI, Masaaki

Ta, Mn, Re

Chair: ISHIDA, Yutaka (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3G3-15, 3G3-17, 3G3-18, 3G3-20)
- 3G3-15[#]** Reductive Cleavage of Nitrogen-nitrogen Double Bond of Azocompounds by Low-valent Group 5 Metal Species (Grad. Sch. Eng. Sci., Osaka Univ.) ○KAWAKITA, Kento; TSURUGI, Hayato; MASHIMA, Kazushi
- 3G3-17[#]** Synthesis and Characterization of Tantalacyclopentadiene bridged Early-Late Heterobimetallic Tantalum-Nickel Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○LASKAR, Payel; MIFLER, Alexis; YAMAMOTO, Keishi; TSURUGI, Hayato; MASHIMA, Kazushi
- 3G3-18[#]** Hydrogenation of CO₂ to Formates and Formamides *via* Bio-Inspired Mn Complexes (OIST) ○DUBEY, Abhishek; KHUSNUTDINOVA, Julia
- 3G3-20** Intramolecular Hydropropargylation Reaction of Silyl Enol Ethers by using α, β -Unsaturated Carbene Complex as a Key Intermediate (Grad. Sch. Sci., Eng., Tokyo Tech.) ○WATANABE, Shoya; SOGO, Hideyuki; IWASAWA, Nobuharu

Saturday, March 18, PM

Si, Ge

Chair: TSURUSAKI, Akihiro (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(3G3-29, 3G3-31, 3G3-32, 3G3-33, 3G3-34)
- 3G3-29[#]** Synthesis and Structure of Heavier Group 14 Analogues of Phenyl Anion (ICR, Kyoto Univ.) ○FUJIMORI, Shiori; MIZUHATA, Yoshiyuki; SASAMORI, Takahiro; TOKITOH, Norihiro
- 3G3-31** Mechanism for Two-Electron Reduction of 1,3-Disilabicyclo[1.1.0]butane (Grad. Sch. Sci., Tohoku Univ.) ○TAMURA, Makoto; KOBAYASHI, Akihumi; ISHIDA, Shintaro; IWAMOTO, Takeaki
- 3G3-32** Generation and Reactivity of bis(silyl radical)s bridged by oligosilane chain (School of science and Engineering, Univ. of Tsukuba) ○ISHIZAKA, Yusuke; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 3G3-33** Synthesis, Structure and Properties of Tetrasilane-1,4-diyl (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SUZUKI, Takayuki; NOZAWA, Takeshi; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 3G3-34** Reaction of lithiosilacyclopropane derivative toward a multiple bonded silicon compound (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○KIKUCHI, Yui; ICHINOHE, Masaaki; SEKIGUCHI, Akira

Chair: MIZUHATA, Yoshiyuki (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(3G3-36, 3G3-38, 3G3-39, 3G3-40, 3G3-41)
- 3G3-36[#]** A Novel Cyclopentasiladienyl Anion Isomer (Grad. Sch. Sci., Tohoku Univ.) ○AKASAKA, Naohiko; ISHIDA, Shintaro; IWAMOTO, Takeaki
- 3G3-38** Withdrawn
- 3G3-39** Synthesis of a Ladder Oligosilane with Transformable Functional Groups at the Bridgehead Positions (Grad. Sch. Sci. Tech., Gunma Univ.) ○AKUTSU, Takuya; TSURUSAKI, Akihiro; KYUSHIN, Soichiro
- 3G3-40** Observation of Intramolecular Ligand Exchange of an Anti-Muttermities Pentacoordinated Complex of Germanium (Grad. Sch. Urban Environmental Sci., TMU) ○KAZUMA, Okamura; INAGAKI, Yusuke; SETAKA, Wataru
- 3G3-41** Synthesis of Hexahydrosilaphenylene (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○OKA, Shohei; SUGINO, Takumi; SAKAMOTO, Kenkichi

Chair: ISHIDA, Shintaro (16 : 00~17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(3G3-43, 3G3-44, 3G3-45, 3G3-46, 3G3-47, 3G3-48)
- 3G3-43** Synthesis of pyramidanes with the group 13 element at the apex (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; SFedU) ○SUGASAWA, Haruka; LEE, Vladimir Ya.; SEKIGUCHI, Akira; GAPURENKO, Olga A.; MINYAEV, Ruslan M.; MINKIN, Vladimir I.
- 3G3-44** Synthesis of Huge Silicon Clusters by the Reduction of Tetrachlorocyclopentasilane (Grad. Sch. Sci. Tech., Gunma Univ.) ○MORIKAWA, Yusuke; TSURUSAKI, Akihiro; KYUSHIN, Soichiro
- 3G3-45** Synthesis of Silicon Clusters by Using Cyclopentasilanes with Functional Groups at the 1,1-Positions (Grad. Sch. Sci. Tech., Gunma Univ.) ○KOBAYASHI, Atsushi; TSURUSAKI, Akihiro; KYUSHIN, Soichiro
- 3G3-46** Synthesis and reactions of oligocyclobutenylsilanes (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○LEE, Junghun; SUGINO, Takumi; SAKAMOTO, Kenkichi
- 3G3-47** Intramolecular Silyl Migration of 1-halo-8-(silyl)naphthalenes (Grad. Sch. Sci., Eng., Hosei Univ.) ○SHIMIZU, Tomomi; KAWACHI, Atsushi
- 3G3-48** Quest for excited-state intramolecular silyl transfer molecules (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○YANG, Wenbo; SAKAMOTO, Kenkichi

Chair: INAGAKI, Yusuke (17 : 10~18 : 10)

- * 17:00-17:10: interval for laptop PC connection.(3G3-50, 3G3-51, 3G3-52, 3G3-53, 3G3-54, 3G3-55)
- 3G3-50** Synthesis of Bis(quinonyl)- and bis(enonyl)disilanes (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○GOTO, Kouhei; SAKAMOTO, Kenkichi
- 3G3-51** Synthesis of 1,2,3,4,5-Pentahydrocyclopentasilane by Reduction of 1,2-Dichloro-1,2-dihydrodisilane (Grad. Sch. Sci. Tech., Gunma Univ.) ○TSUDA, Shunsuke; KYUSHIN, Soichiro
- 3G3-52** Structural Analysis of Mesophases of Silyl-Substituted *p*-Terphenyls Bearing Polar Groups (Grad. Sch. Sci. Tech., Gunma Univ.) ○NANBA, Kenji; KYUSHIN, Soichiro
- 3G3-53** Singlet oxygen generation properties of spiro-fused germole derivatives (Grad. Sch. Eng., Hiroshima Univ.) ○HAYASHI, Yuya; ENOKI, Toshiaki; OYAMA, Yusuke; OHSHITA, Joji
- 3G3-54** Synthesis and Characterization of Arene-inset Extended Germa[N]pericyclenes (Grad. Sch. Mat. Sci., NAIST) ○TOUMORI, Daiki; MORI, Junta; TANIMOTO, Hiroki; KAKIUCHI, Kiyomi
- 3G3-55** Estimation of the Hydride Donor Ability of Hydroborate Derived from an *o*-(Hydrosilyl)(boryl)benzene (Grad. Sch. Sci., Eng., Hosei Univ.) ○SATO, Masaya; KAWACHI, Atsushi

B, Al, Ga

Chair: NAMAMOTO, Masaaki (18 : 20~18 : 50)

- * 18:10-18:20: interval for laptop PC connection.(3G3-57, 3G3-58, 3G3-59)
- 3G3-57** Synthesis and Dimerization of Boryl- and Amino-Substituted Acetylenes (Grad. Sch. Sci. Eng., Chuo Univ.; Fac. Sci. Eng., Chuo Univ.; Grad. Sch. Eng., Nagoya Univ.) ○KITAMURA, Ryo; SUZUKI, Katsunori; YAMASHITA, Makoto
- 3G3-58** Synthesis and Properties of a Stable Iron-Dibromoaluminum Complex (ICR, Kyoto Univ.; ICR, Kyoto Univ.) ○YANAGISAWA, Tatsuya; MIZUHATA, Yoshiyuki; SASAMORI, Takahiro; AGOU, Tomohiro; TOKITOH, Norihiro
- 3G3-59** Synthesis and photochemical properties of cationic phthalocyanine or subphthalocyanine bearing peripheral methylpyridinium group. (Grad. Sch. Fac. Sci. Eng., Shimane Univ.; Fac. Med., Shimane Univ.; Shimane Institute for Industrial Technology) ○FUJISHIRO, Rei; SONOYAMA, Hayato; SASAI, Ryo; FUJIMURA, Takuya; NAGAI, Atsushi; YOSHINO, Katsumi; IKEUE, Takahisa

Sunday, March 19, AM

Mo

Chair: MATSUMOTO, Takeshi (9 : 30 ~10 : 00)

- * 9:20-9:30: interval for laptop PC connection.(4G3-04, 4G3-05, 4G3-06)
- 4G3-04** Photo-reversible changes in magnetic properties in pentacyanidoni-trosylmolybdate-manganese assembly (Grad. Sch. Sci., The Univ. of Tokyo) ○NAKANO, Koichi; KOMINE, Masaya; MIYAMOTO, Yasuto; IMOTO, Kenta; NAKAGAWA, Kosuke; NAKABAYASHI, Koji; OHKOSHI, Shin-ichi
- 4G3-05** SHG active one-dimensional cyanide-bridged Ln-Mo bimetal assemblies (Grad. Sch. Sci., The Univ. of Tokyo) ○KOMINE, Masaya; CHORAZY, Szymon; IMOTO, Kenta; NAKABAYASHI, Koji; OHKOSHI, Shin-ichi
- 4G3-06** Introduction of Metal Ions in Redox-Active Porous Ionic Crystals with Keggin-type Dodecamolybdo-sulfate (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○NIWA, Kanae; UCHIDA, Sayaka

Mg, Cr, Mo

Chair: UCHIDA, Sayaka (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4G3-08, 4G3-09, 4G3-11, 4G3-12, 4G3-13)
- 4G3-08** Alkylation on Molybdenum Sulfide Cluster and the Change of Electrochemical Property (Fac. Sci. Eng., Chuo Univ.) ○NAMIKI, Ryoya; MATSUMOTO, Takeshi; CHANG, Ho-chol
- 4G3-09[#]** Electrochemical evaluation of molybdenum-dinitrogen complexes in ionic liquid and its application for ammonia synthesis (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○KATAYAMA, Akira; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki
- 4G3-11** Reduction of Dimolybdenum Complexes Containing Metal-metal Quadruple Bonds by Organosilicon Compounds (Grad. Sch. Eng. Sci., Osaka Univ.) ○KEDA, Hideaki; TSURUGI, Hayato; MASHIMA, Kazushi
- 4G3-12[#]** One-dimensional chain compounds based on paddlewheel-type dichromium(II,II) complexes: the electronic effect of bridging ligands in their ambiguous magnetic behavior (IMR, Tohoku Univ.) ○HUANG, Po-jung; SEKINE, Yoshihiro; KOSAKA, Wataru; TANIGUCHI, Kouji; MIYASAKA, Hitoshi
- 4G3-13** Structural diversification of light metal coordination polymers using methylsulfonyl benzoic acid ligand with a charge-polarized neutral methylsulfonyl moiety (RIES, Hokkaido Univ.) ○OCHI, Rika; NORO, Shin-ichiro; HIJIKATA, Yuh; KUBO, Kazuya; NAKAMURA, Takayoshi

Cr, Ir

Chair: KOSAKA, Wataru (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(4G3-15, 4G3-16, 4G3-17, 4G3-18, 4G3-19)
- 4G3-15[#]** Promotion of Nuclear Spin Conversion of Molecular Hydrogen Adsorbed in Cyanide-Bridged Porous Magnets (Grad. Sch. Sci., Kyushu Univ.) ○OHTSUBO, Yuta; MISHIMA, Akio; HORI, Akihiro; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 4G3-16** Synthesis of redox-active metal based coordination polymers and its glass fabrication (Grad. Sch. Eng., Kyoto Univ.) ○OHARA, Yuki; HORIKE, Satoshi; KITAGAWA, Susumu
- 4G3-17** TD-DFT study on photo absorption property of Ir(III)(ppy)₂(dpm)_{3-n} complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○NATORI, Yoshiki; ASAOKA, Mizuki; KITAGAWA, Yasutaka; NAKANO, Masayoshi
- 4G3-18** Synthesis and properties of Ir dinuclear complexes containing dinucleating N-heterocyclic ligand (Grad. Sch. Sci. Eng., Chuo Univ.) ○KATO, Yuri; OZAWA, Hiroaki; HAGA, Masa-aki
- 4G3-19** Preparation of luminescent metal-organic frameworks using phosphorescent Ir complexes as a molecular linker (Grad. Sch. Sci. Eng., Chuo Univ.) ○ARAI, Kiyomi; OZAWA, Hiroaki; HAGA, Masa-aki

Sunday, March 19, PM

Zn

Chair: TAKAISHI, Shinya (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(4G3-28, 4G3-29, 4G3-30, 4G3-31, 4G3-32, 4G3-33)
- 4G3-28** Syntheses and Adsorption Properties of Photo Reactive Metal Complexes Decorated with Alkylodine Groups on the Porous Surfaces (Grad. Sch. Eng., Nagoya Univ.) ○IKEDA, Taro; KIM, Cho Rong; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
- 4G3-29** Synthesis of Porous Metal Complexes Showing Light Induced Structural Transformation and Guest Dependent Photoreaction (Sch. Eng., Nagoya Univ.) ○KIYOSE, Atsushi; FUJIMURA, Masashi; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
- 4G3-30** Synthesis and Structures of Porous Metal Complexes with 3,5-pyridinedicarboxylate Having Pores Surface with Hydrogen Bond Sites (Sch. Eng., Nagoya Univ.) ○ISHIKAWA, Ryosuke; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
- 4G3-31** Structures and Properties of Porous Metal Complexes Having Photosensitizing Ability (Sch. Eng., Nagoya Univ.) ○FUJIMURA, Masashi; KIYOSE, Atsushi; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
- 4G3-32[#]** Study on self-rearrangement processes of metal-organic framework by transmission electron microscopy (Grad. Sch. Sci., The Univ. of Tokyo) ○XING, Junfei; SCHWEIGHAUSER, Luca; KUMAMOTO, Akihito; SHIBATA, Naoya; HARANO, Koji; NAKUMURA, Eiichi
- 4G3-33** Synthesis of proton conducting Zinc-based coordination polymer crystal showing low melting temperature (Sch. Eng., Kyoto Univ.) ○YOSHIDA, Atsushi; OHARA, Yuki; HORIKE, Satoshi; KITAGAWA, Susumu

Chair: HORIKE, Satoshi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(4G3-35, 4G3-36, 4G3-38, 4G3-39)
- 4G3-35** Crystal Surface Observation of Interdigitated Porous Coordination Polymers by Atomic Force Microscope (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○KAMAKURA, Yoshinobu; TANAKA, Daisuke
- 4G3-36^{**}** Porous Molecular Conductors Self-Assembled from Coordination Polymers with π -Radicals (Grad. Sch. Sci., Tohoku Univ.) ○IGUCHI, Hiroaki; QU, Liyuan; MIYATA, Momoka; TAKAISHI, Shinya; YAMASHITA, Masahiro
- 4G3-38** Synthesis and Metal Coordination of [2+2] Schiff Base Chiral Macrocycles (Grad. Sch. Eng., Tokyo Denki Univ.) ○TOKUNAGA, Hiroki; MIYASAKA, Makoto
- 4G3-39^{**}** Rational Molecular Design of a Photoactive Salen Ligand (LCCMS, IMS) ○KURAHASHI, Takuya

Chair: HORI, Akihiro (15 : 50~16 : 30)

- * 15:40-15:50: interval for laptop PC connection.(4G3-42, 4G3-43, 4G3-44, 4G3-45)
- 4G3-42** Photo-induced Oxidation Reaction of Alcohols Accompanied by NAD⁺/NADH-type Conversion of Zn-bbn Complex (Grad. Sch. Sci. Eng. For Edu., Univ. of Toyama) ○TEZUKA, Yosuke; OHTSU, Hideki; TSUGE, Kiyoshi
- 4G3-43** Clarification of a mechanism for controlling catalytic activity on Pt nanoparticles supported on metal-organic frameworks (Fac. Sci., Kyushu Univ.; I-CNER, Kyushu Univ.; RIKEN Spring-8 Center) ○YOSHIMARU, Shotaro; SADAKEYO, Masaaki; KATO, Kenichi; ALEKSANDAR, Staykov; YAMAUCHI, Miho
- 4G3-44** Theoretical study on relationship between substituent group and photo absorption of bis(dipyrrinato)zinc(II) complexes (Grad. Sch. Eng. Sci.,

Osaka Univ.; Grad. Sch. Sci., The Univ. of Tokyo) ASAOKA, Mizuki; ○KITAGAWA, Yasutaka; AOKI, Shogo; NATORI, Yoshiki; SAKAMOTO, Ryota; NISHIHARA, Hiroshi; NAKANO, Masayoshi

- 4G3-45** Central Metal Dependence on Properties and Inclusion Behavior of 2,7-Dihydroxynaphthalene-Bridged Cofacial Cyclic Porphyrin Dimers (Grad. Sch. Sci., Osaka Univ.) ○FURUTANI, Kazuhiro; YAMASHITA, Ken-ichi; OGAWA, Takuji

Room G4

Sixth Building J632

Coordination Chemistry, Organometallic Chemistry

Thursday, March 16, AM

Co

Chair: KOTANI, Hiroaki (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1G4-01, 1G4-02, 1G4-03, 1G4-04, 1G4-06)
- 1G4-01** Structural Switching of Maleimide-Containing Chiral Co(II) Complex in Response to External Stimuli (Grad. Sch. Sci., Osaka City Univ.) ○TSUJI, Daisuke; SHINODA, Satoshi; MIYAKE, Hiroyuki
- 1G4-02** Guest recognition control of cobalt(III) dinuclear macrocyclic metallohosts having an intramolecular bridging structure (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○OKADA, Masahiro; SAKATA, Yoko; AKINE, Shigehisa
- 1G4-03** Helicity Control of Helical Cobalt(III) Metalloporphyrins by Introduction of Chiral Amines (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○CHIBA, Shunsuke; SAKATA, Yoko; AKINE, Shigehisa
- 1G4-04^{**}** Hydrogen-Bonded Supramolecular Structures and Isomerisms in Tris-Chelate Co(III) Complexes with Unsymmetrical Bidentate Ligands (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○MITSUHASHI, Ryoji; SUZUKI, Takayoshi; HOSOYA, Satoshi; MIKURIYA, Masahiro
- 1G4-06** Observations and Structure Determination of Self-Assembly of Valence Tautomeric Cobalt Complexes with Long Alkyl Chains on Highly Ordered Pyrolytic Graphite Surface (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○SHIOJIRI, Nao; CHANG, Ho-chol; TANAKA, Daisuke

Chair: KOJIMA, Takahiko (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1G4-08, 1G4-10, 1G4-12)
- 1G4-08^{**}** Variable Coordination Geometries with an Amine-Enamidophosphinimine Ligand on Cobalt (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○SUZUKI, Tatsuya; OZAWA, Tomohiro; INOMATA, Tomohiko; FRYZUK, Michael; MASUDA, Hideki
- 1G4-10^{**}** Tunable Flexibility Induced by a Polymeric Guest in a Porous Coordination Polymer (Grad. Sch. Eng., Kyoto Univ.) ○LE OUAÏ, Benjamin; UEMURA, Takashi; KITAGAWA, Susumu
- 1G4-12^{**}** Isolation of Heteroleptic bis-terpyridine Cobalt(II) Complex as the Crystalline State through via Base Pairing of Nucleobases (Dept. Chem., Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○NAKAYA, Manabu; OHTANI, Ryo; NAKAMURA, Masaaki; HAYAMI, Shinya

Chair: CHANG, Hochol (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1G4-15, 1G4-17, 1G4-18, 1G4-20)
- 1G4-15^{**}** Mechanistic Investigations of Electrochemical Hydrogen Evolution Catalyzed by a Cobalt-NHC Complex (Fac. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○KAWANO, Ken; YAMAUCHI, Kosei; SAKAI, Ken
- 1G4-17** Exploring Efficient Electron Transfer Agents for Water Reduction Photocatalyzed by a Co-NHC Catalyst. (Fac. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○YATSUZUKA, Koichi; KAWANO, Ken; YAMAUCHI, Kosei; SAKAI, Ken
- 1G4-18^{**}** Co-C bond formation reaction via the ligand reduction of cobalt porphycene (Grad. Sch. Eng., Kyushu Univ.; IMCE, Kyushu Univ.) ○KOIDE, Taro; SAEKI, Tatsuya; MORITA, Yoshitsugu; SHIOTA, Yoshihito; YOSHIZAWA, Kazunari; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 1G4-20** Valence tautomerism induced by deprotonation of a Co(III)-pyridylamine complex (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○OHSHIRO, Aya; KOTANI, Hiroaki; ISHIZUKA, Tomoya; KOJIMA, Takahiko

Thursday, March 16, PM

Co, Ag, Au

Chair: SHICHIBU, Yukatsu (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1G4-28, 1G4-29, 1G4-30,

1G4-31, 1G4-32, 1G4-33)

- 1G4-28** Controllable synchronicity of valence tautomerism with solid-melt phase transition by the modulation of the chain lengths of oligo ethylene glycoxy (Fac. Sci. Eng., Chuo Univ.) ○CHIDA, Mayumi; MATSUMOTO, Takeshi; KOSAKA, Wataru; MIYASAKA, Hitoshi; CHANG, Ho-chol
- 1G4-29** Structural control and properties of cobalt (II) hybrid complex with anilic acids (Fac. Sci., Fukuoka Univ.) ○FURUIE, Chisato; KANAZASHI, Ken; ISHIKAWA, Ryuta; KAWATA, Satoshi
- 1G4-30** Synthesis and properties of Group 11 metal(I) trinuclear complexes with 4-phenyl substituted pyrazolate (Coll. Sci., Ibaraki Univ.) ○SAOTOME, Mai; FUJISAWA, Kiyoshi
- 1G4-31** Structures and Luminescence Properties of Silver(I) Coordination Polymers Ligated by Bipyrazolyl Based Ligands (Coll. Sci., Ibaraki Univ.) ○FUJISAWA, Kiyoshi; KOBAYASHI, Takafumi; KONDO, Shiori
- 1G4-32** Structural Conversion of an $\text{Ag}_3\text{Rh}^{\text{III}}_2$ Pentanuclear Complex with L-Cysteinate (Grad. Sch. Sci., Osaka Univ.) ○FUKUDA, Yosuke; YOSHINARI, Nobuto; KONNO, Takumi
- 1G4-33** Formation of Chiral $\text{Au}^{\text{I}}_2\text{M}$ (M = Co^{III} , Ni^{II}) Trinuclear Complexes by Using *meso*-Type Metalloligand (Grad. Sch. Sci., Osaka Univ.) ○ITAI, Takuma; KOJIMA, Tatsuhiro; KONNO, Takumi

Au

Chair: INOMATA, Tomohiko (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1G4-35, 1G4-37, 1G4-39, 1G4-40)
- 1G4-35[#]** Tuning of optical properties of small gold clusters through π -mediated interactions (Grad. Sch. Env. Sci., Hokkaido Univ.) ○IWASAKI, Mitsuhiko; SHICHIBU, Yukatsu; KONISHI, Katsuaki
- 1G4-37[#]** Aggregation-induced Switching of Photoluminescence Properties of Subnanometer gold clusters (Grad. Sch. Env. Sci., Hokkaido Univ.; Grad. Sch. Sci. Eng., Univ. of Toyama) ○SUGIUCHI, Mizuho; SHICHIBU, Yukatsu; OKUBO, Nobuyuki; MAEBA, Junichi; IWAMURA, Munetaka; NOZAKI, Koichi; KONISHI, Katsuaki
- 1G4-39** Synthesis and structures of soluble gold-thiolate coordination polymer (Fac. Earth Sci., Hokkaido Univ.) ○MATSUMINE, Riku; SHICHIBU, Yukatsu; HORIMOTO, Noriko; YAMAUCHI, Yoshihiro; ISHIDA, Yasuhiro; KONISHI, Katsuaki
- 1G4-40** Ligand effects on the photoluminescence properties of soluble AuSR coordination polymer (Grad. Sch. Env. Sci., Hokkaido Univ.) ○ONO, Takeya; MATSUMINE, Riku; SHICHIBU, Yukatsu; KONISHI, Katsuaki

Ni, Au

Chair: SHIGA, Takuya (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1G4-42, 1G4-43, 1G4-44, 1G4-45, 1G4-46, 1G4-47)
- 1G4-42** Syntheses, structures and photoluminescence properties of iminothiolato gold(I)-silver(I) mixed metal complexes. (Sch. Sci., Univ. of Hyogo) ○YAMAGUCHI, Yuma; OZAWA, Yoshiki; ABE, Masaaki
- 1G4-43** Oxidation of Aromatic Compounds by A Bis(μ -oxido)dinickel(III) Complex (Grad. Sch. Eng., Osaka Univ.) ○TAKAGI, Yusaku; MORIMOTO, Yuma; ITOH, Shinobu
- 1G4-44[#]** Magnetic Property and Electronic Structure of Bis(μ -oxido)dinickel (III) Complex Showing Aromatic Oxidation Reactivity (Grad. Sch. Eng., Osaka Univ.) ○MORIMOTO, Yuma; TAKAGI, Yusaku; ITOH, Shinobu
- 1G4-45** Synthesis and Magnetic Properties of Hetero-metal Heptanuclear Complexes (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○KOBAYASHI, Fumiya; OHTANI, Ryo; HAYAMI, Shinya; NAKAMURA, Masaaki
- 1G4-46** Development of high-performance catalyst for electrochemical hydrogen production based on two metal ions as an active site (Fac. Sci., Fukuoka Univ.) ○KAI, Keisuke; HAMAGUCHI, Tomohiko; ANDO, Isao
- 1G4-47** Synthesis of the metalladithiolene complexes which have polyhedral oligomeric silsesquioxane substituent (Grad. Sch. Fac. Sci. Technol., TUS) ○WATANABE, Akane; TSUKADA, Satoru; GUNJI, Takahiro

Ni, Rh

Chair: HAMAGUCHI, Tomohiko (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(1G4-49, 1G4-51, 1G4-52, 1G4-53, 1G4-54)
- 1G4-49[#]** Stabilization of an Extraordinary Oxidation State of Nickel Center by Tris(1,3-aminopropanethiolato)rhodium(III) Octahedral Units (Grad. Sch. Sci., Osaka Univ.) ○KOUNO, Masahiro; KUWAMURA, Naoto; YOSHINARI, Nobuto; KONNO, Takumi
- 1G4-51** Synthesis and Reactivity of a Five-coordinate Rhodium(III) Complex Supported by a Redox-active Ligand (Grad. Sch. Eng., Osaka Univ.) ○FUJITA, Daiki; SUGIMOTO, Hideki; MORIMOTO, Yuma; ITOH, Shinobu
- 1G4-52** Synthesis of $\text{Cp}^*\text{Rh(III)}$ Complexes Utilizing CH-Activation of a Calixarene Ligand (Grad. Sch. Sci. Eng., Chuo Univ.) ○TEZUKA, Ryogen; ISHIKAWA, Mikiya; KODAMA, Shintaro; ISHII, Youichi
- 1G4-53** Synthesis of Metalladithiolene Complexes using Heterole as a Ligand (Grad. Sch. Fac. Sci. Technol., TUS) ○WATANABE, Tsubasa; GUNJI, Takahiro; TSUKADA, Satoru

- 1G4-54[#]** Structures and Properties of pyz and 4,4'-bpy Adduct Polymers of Lantern-type Dirhodium(II) Units with Formamidinato and Pivalato Intradimer Bridges (Fac. Sci. Eng., Shimane Univ.) ○HANDA, Makoto; NISHIURA, Satoshi; YANO, Natsumi; MASUDA, Takafumi; MIKURIYA, Masahiro; KATAOKA, Yusuke

Rh

Chair: HANDA, Makoto (18 : 10~18 : 40)

- * 18:00-18:10: interval for laptop PC connection.(1G4-56, 1G4-57)
- 1G4-56** Synthesis and Coordination Properties of a Borate-Containing Caged Triarylphosphine (Fac. Sci., Hokkaido Univ.) ○KONISHI, Shota; IWAI, Tomohiro; SAWAMURA, Masaya
- 1G4-57[#]** In situ generation and immobilization of activated Rh complex catalyst in MOF for hydrogenation reactions under low H₂ pressure conditions (FIRST, Konan Univ.) ○TAKASHIMA, Yohei; FUKUHARA, Yoshimasa; SATO, Yasushi; TSURUOKA, Takaaki; AKAMATSU, Kensuke

Friday, March 17, PM

Cu

Chair: HOSONO, Nobuhiko (13 : 20~14 : 00)

- * 13:10-13:20: interval for laptop PC connection.(2G4-27, 2G4-29)
- 2G4-27[#]** Electronic Structures and Reactivities of Organocopper N-Confused Corroles (Grad. Sch. Eng., Kyushu Univ.) ○MAURYA, Yogesh Kumar; NODA, Katsuya; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 2G4-29[#]** Kinetic assembly of porous coordination networks utilizing labile Cu-Halides clusters (Sch. Sci., Tokyo Tech.) ○OHTSU, Hiroyoshi; KAWANO, Masaki
- Chair: ABE, Masaaki (14 : 10~15 : 10)
- * 14:00-14:10: interval for laptop PC connection.(2G4-32, 2G4-33, 2G4-34, 2G4-35, 2G4-36, 2G4-37)
- 2G4-32** Construction and Adsorption Properties of Porous Ionic Crystals Based on Polyoxometalate and Oligonuclear Metal Complexes (Grad. Sch. Sci., Kyushu Univ.) ○CHIKITA, Daiki; YOU, Tetsu; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 2G4-33** Syntheses and Gas Adsorption Properties of Porous Metal Complexes with Dynamic Long Alkyl Chain Groups (Grad. Sch. Eng., Nagoya Univ.) ○NAGATA, Yuki; SHIM, Joo Young; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
- 2G4-34** Systematic Synthesis of Porous Metal Complexes Composed of Mixed Metal Ions Through Metal Ion Doping Method (Sch. Eng., Nagoya Univ.) ○HARADA, Yuuki; HORI, Akihiro; MA, Yunsheng; HIJIKATA, Yuh; MATSUDA, Ryotaro
- 2G4-35** Direct Observation of Structural Phase Transition and Adsorption Heat on Dynamic Porous Metal Complexes (Grad. Sch. Eng., Nagoya Univ.) ○SUZUKI, Takaya; KANESHIMA, Keita; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
- 2G4-36** Nuclear Spin Dynamics of Hydrogen in Kagomé Type of Cu Metal Complexes (Sch. Eng., Nagoya Univ.) ○KANESHIMA, Keita; SUZUKI, Takaya; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
- 2G4-37[#]** Development of three-dimensional porous coordination polymers using a thiophene based ligand (WPI-iCeMS, Kyoto Univ.) ○KUSAKA, Shinpei; WANG, Fei; KITAGAWA, Susumu

Chair: KAWANO, Masaki (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[#]** Synthesis and properties of coordination polymers consisting of components similar to ionic liquids (Grad. Sch. Env. Sci., Hokkaido Univ.) ○ZHENG, Xin; NORO, Shin-ichiro; KUBO, Kazuya; NAKAMURA, Takayoshi
- 2G4-40[#]** Steric Effect on the Structure and Luminescence of Copper(I) Pyridinophane Complexes (Coordination Chemistry and Catalysis Unit) ○PATIL, Pradnya; KHUSNUTDINOVA, Julia
- 2G4-41[#]** Intramolecular Non-Covalent Interactions as a Strategy Towards Controlled Photoluminescence in Copper(I) Complexes (OIST) ○FILONENKO, Georgy; KHUSNUTDINOVA, Julia
- 2G4-42** Synthesis, structures, and luminescence properties of tetra- and hexanuclear Cu(I) complexes with benzimidazolethiolato ligands. (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○KIYOOKA, Hidetoshi; OZAWA, Yoshiki; ABE, Masaaki
- 2G4-43** The development of novel π -conjugated molecules by nucleophilic aromatic substitution of a hexaazatriphenylene derivative and a primary amine. (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○HINOKIMOTO, Akira; TANAKA, Daisuke
- 2G4-44** 2D-Assembled Structure of Hexaazatriphenylene Derivatives Determined by Scanning Tunneling Microscope (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○ONO, Toshinori; INOSE, Tomoko; UJII, Hiroshi; TANAKA, Daisuke

Chair: UEMURA, Takashi (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** Studies on Film Formation Process and Carrier Transport Properties of Dithiocarbamate Coordination Polymers (Grad. Sch. Sci. Eng., Kindai Univ.) ○HIMOTO, Kento; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2G4-47** Open-close Motion of Dicopper(II) Paddle-wheels in a Coordination Polymer Composed of Au₂Pd^{II} Trinuclear Units (Grad. Sch. Sci., Osaka Univ.) ○OHWAKI, Hayato; YOSHINARI, Nobuto; KONNO, Takumi
- 2G4-48** Fabrication of a highly-oriented crystalline thin film using metal-organic framework with anionic pillar ligand (Dep. Chem., Sch. Sci., Kyoto Univ.) ○WATANABE, Yuki; HARAGUCHI, Tomoyuki; OTSUBO, Kazuya; SAKATA, Osami; FUJIWARA, Akihiko; KITAGAWA, Hiroshi
- 2G4-49** Evaluation and control of crystallization process of porous coordination polymer in the micro flow synthesis and obtained crystals (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TANAKA, Yoko; HIRATANI, Moe; KAWANO, Ryujii; TANAKA, Daisuke
- 2G4-50** Synthesis and Properties of Pyrazolyl Complexes of Group II Metals (Grad. Sch. Sci., Osaka Univ.) ○SHIMIZU, Naoya; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro; NAGATA, Kojiro
- 2G4-51** Template Synthesis of Tripodal Trispirocyclic Cyclotriphosphazene Ligand for Metal Complex (Graduate School of Science, Kitasato University) KAJIYAMA, Kazumasa; ○IWANAMI, Junpei; YUGE, Hidetaka

Saturday, March 18, AM

Pt

Chair: OZAWA, Hironobu (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3G4-01, 3G4-02, 3G4-03, 3G4-04, 3G4-05, 3G4-06)
- 3G4-01** Metal nanoparticles synthesized from micellar solution of amphiphilic platinum complexes having an *N*-alkylbipyridium ligand (Lab. Chem. Life Sci., Tokyo Tech.) ○FUJII, Yuhei; SUZAKI, Yuji; OSAKADA, Kohtaro
- 3G4-02** Photo-induced Synthesis of Di(perfluoroalkyl)platinum(II) Complexes with 1,5-cyclooctadiene (Lab. Chem. Life Sci., Tokyo Tech.) ○KIHO, Minetada; SUZAKI, Yuji; OSAKADA, Kohtaro
- 3G4-03** Synthesis and Structure of a Liner Trinuclear Platinum Tetrahydride Complex Supported by Triphosphine Ligands (Fac. Sci., Nara Women's Univ.) ○HATANO, Rika; YAMAMOTO, Kana; NAKAMAE, Kanako; URA, Yasuyuki; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 3G4-04** Synthesis and Luminescent Properties of Heteropolynuclear Pt(II) Complexes bearing 2-phenylpyridinate (Grad. Sch. Eng., Nagasaki Univ.; Fac. Eng., Kyushu Sangyo Univ.) ○UEDA, Misa; HORIUCHI, Shinnosuke; SAKUDA, Eri; NAKAO, Yoshihide; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke
- 3G4-05** Dual Emission of a Dinuclear Pt(II) Complex bearing Cyclometalated Pyridyl-NHC Ligands (Grad. Sch. Eng., Nagasaki Univ.) ○MOON, Sangjoon; HORIUCHI, Shinnosuke; SAKUDA, Eri; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke
- 3G4-06** Synthesis and Structures of Cyclometalated Binuclear Pt Complexes Bearing NDI Moiety (Grad. Sch. Eng. Sci., Osaka Univ.) ○MATSUOKA, Tatsuya; KAWAMORITA, Soichiro; NAOTA, Takeshi

Chair: YOSHIDA, Masaki (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3G4-08, 3G4-09, 3G4-10, 3G4-11, 3G4-13)
- 3G4-08** Synthesis and Molecular Motion of Clothespin-Shaped Binuclear Platinum Complexes Bearing azapolyethylene Linkers (Grad. Sch. Eng. Sci., Osaka Univ.) ○KAMABAYASHI, Jun; KAWAMORITA, Soichiro; NAOTA, Takeshi
- 3G4-09** Synthesis and Emission Properties of Cyclometalated Salicylaldiminato Pt(II) Complex by C(sp³)-H Activation (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAITO, Masaya; NAOTA, Takeshi
- 3G4-10** Synthesis and structure of cyclometalated platinum(II) complexes by sequential intramolecular C-H activation of N-(3-pyridinoxy)alkyliminophenols (Grad. Sch. Eng. Sci., Osaka Univ.) ○ANZAI, Kento; KAWAMORITA, Soichiro; NAOTA, Takeshi
- 3G4-11**^{**} Visible-light-induced Hydrogen Evolution Driven by Pt(II) Terpyridine Complexes Tethered to an Electron Donor Site (Fac. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○MIYAJI, Masayuki; OZAWA, Hironobu; SAKAI, Ken
- 3G4-13** A Highly Stable Platinum Porphyrin Modified Electrode Driving Hydrogen Production with an Extremely Low Overpotential (Grad. Sch. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○MORITA, Kohei; OZAWA, Hironobu; SAKAI, Ken

Chair: OTSUBO, Kazuya (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3G4-15, 3G4-17, 3G4-18, 3G4-19)
- 3G4-15**^{**} Hydrogen Evolution from Water Photocatalyzed by Chloro(terpyridine)platinum(II) Derivatives Tethered to a Methylviologen Acceptor (Fac. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○LIN, Shu; KITAMOTO, Kyoji; OZAWA, Hironobu; SAKAI, Ken

- 3G4-17** Mechanistic Insights into Hydrogen Evolution from Water Catalyzed by Mononuclear Pt(II) Complexes (Fac. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○WAKIYAMA, Fumiaki; YAMAUCHI, Kosei; SAKAI, Ken
- 3G4-18**^{**} Solid-state Phosphorescence of Vaulted *trans*-Bis(2-imidazolylaldiminato)platinum(II) Complexes: Crystal Design for Intense Emission Based on Controlled Molecular Alignment (Grad. Sch. Eng. Sci., Osaka Univ.) ○LE, Ngoc Ha Thu; NAOTA, Takeshi
- 3G4-19**^{**} Theoretical Investigation of Solid State Phosphorescence from Vaulted *trans*-Bis(salicylaldiminato)platinum(II) Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○INOUE, Ryo; EHARA, Masahiro; NAOTA, Takeshi

Saturday, March 18, PM

Chair: SAKUDA, Eri (13 : 30 ~ 14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3G4-28, 3G4-30, 3G4-32, 3G4-33)
- 3G4-28**^{**} Synthesis and physical properties of a novel two-legged MX-tube-type compound with flexible linker ligand (Dep. Chem., Sch. Sci., Kyoto Univ.) ○OTSUBO, Kazuya; SUGIMOTO, Kunihisa; FUJIWARA, Akihiko; KITAGAWA, Hiroshi
- 3G4-30**^{*} Color-tuning of Electrochromic Triple-decker Platinum Complexes by Using Halide Ions (Fac. Sci., Hokkaido Univ.) ○YOSHIDA, Masaki; SHITAMA, Hotaka; SAMEERA, W. M. C.; KOBAYASHI, Atsushi; KATO, Masako
- 3G4-32** Synthesis and Emission Properties of Clothespin-Shaped Binuclear Pt (II) Complexes Bearing Halogen Functionalities (Grad. Sch. Eng. Sci., Osaka Univ.) ○ITO, Mizuki; NAOTA, Takeshi
- 3G4-33** Effects of Metal Ions on Solvent-induced Disproportionation of Semiquinonato Complexes (Fac. Sci. Eng., Chuo Univ.) ○YAMADA, Shota; MATSUMOTO, Takeshi; CHANG, Ho-chol
- Chair: YOSHIDA, Masaki (14 : 40 ~ 15 : 30)
- * 14:30-14:40: interval for laptop PC connection.(3G4-35, 3G4-36, 3G4-37, 3G4-38)
- 3G4-35** Synthesis and Properties of Redox-active Platinum Complexes with Oligo-ethylene Glycol (Fac. Sci. Eng., Chuo Univ.) ○OKADA, Koyuki; NAKAMURA, Yuichi; SAKAZUME, Yasutaka; CHIDA, Mayumi; MATSUMOTO, Takeshi; CHANG, Ho-chol
- 3G4-36** Synthesis and photophysical properties of novel phenylthiazole ligand and its platinum (II) complex having intraligand CT. (Grad. Sch. Eng., Nagasaki Univ.) ○NOMURA, Mai; SAKUDA, Eri; HORIUTI, Shinnosuke; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke
- 3G4-37** Synthesis and one-dimensional self-assembly of macrocyclic dinuclear Pt(II) complexes (Grad. Sch. Sci., The Univ. of Tokyo) ○SHIMIZU, Shun; KAMATSUKA, Tastuya; TASHIRO, Shohei; SHIONOYA, Mitsuhiko
- 3G4-38**^{**} Facile Ion Exchange in Metallo-supramolecular Polymer for Improved Electronic Properties (MANA, NIMS) ○CHAKRABORTY, Chanchal; MORIYAMA, Satoshi; HIGUCHI, Masayoshi

Mn

Chair: OHTANI, Ryo (15 : 40 ~ 16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(3G4-41, 3G4-42, 3G4-43, 3G4-44, 3G4-45, 3G4-46)
- 3G4-41**^{*} Synthesis and reactivity of hydride-based coordination polymers crystals (Grad. Sch. Eng., Kyoto Univ.) ○KADOTA, Kentaro; HORIKE, Satoshi; KITAGAWA, Susumu
- 3G4-42** Modulation of the Electronic and Electrochemical Properties of Metal Organic-Frameworks with Guest Introduction (Sch. Sci., Nagoya Univ.) ○YAMAMOTO, Shohei; ZHANG, Zhongyue; AWAGA, Kunio
- 3G4-43** Synthesis and properties of multinuclear manganese complexes with branched ligands containing β-ketoiminato groups (Grad. Sch. Sci., Osaka Univ.) ○KUSUMOTO, Masaaki; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro
- 3G4-44** Highly Durable Photocatalytic CO₂ Reduction Systems Consisting of a Mn(I) Complex Catalyst and an Os(II) Complex Photosensitizer (Sch. Sci., Tokyo Tech.) ○SUZUKI, Yutaka; TAKEDA, Hiroyuki; ISHITANI, Osamu
- 3G4-45** Efficient photocatalytic CO₂ reduction consisting of Mn(I) complexes as catalysts and a Cu(I) complex as a photosensitizer (Sch. Sci., Tokyo Tech.) ○KAMIYAMA, Hiroko; TAKEDA, Hiroyuki; ISHITANI, Osamu
- 3G4-46** Photocatalytic CO₂ reduction catalyzed by 3d-metal complexes having S₂N₂-type tetradentate ligands (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○TSUKAKOSHI, Yuto; HONG, Dachao; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko

Chair: FURUKAWA, Shuhei (16 : 50 ~ 17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(3G4-48, 3G4-50, 3G4-52, 3G4-53)
- 3G4-48**^{**} Visible light driven water oxidation using co-modified ruthenium(II) dye/manganese porphyrin dimer Catalyst on TiO₂ Electrodes (Inst. Sci. Tech. Res., Chubu Univ.) ○MAJUMDER, Samit; ZAHARAN, Zaki; NARUTA, Yoshinori
- 3G4-50**^{**} A Mn water oxidation catalyst-Ru dye sensitizer dyad assembled

- electrodes for efficient visible light driven water splitting (Inst. Sci. Tech. Res., Chubu Univ.) ○NAGARAJU, Perumandla; MAJUMDER, Samit; ABDELHALEEM, Ashraf Mohamed; NARUTA, Yoshinori
3G4-52 Synthesis of ionic liquids incorporating $[Mn(N)(CN)_4]^{2-}$ complex (Fac. Sci., Kumamoto Univ.) ○HIRAOKA, Tomoaki; OHTANI, Ryou; HAYAMI, Shinya
3G4-53 Control the structural dynamics and thermal expansion behavior doped by an oxidative addition of iodine (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○YAMAMOTO, Riho; OHTANI, Ryo; HAYAMI, Shinya

Chair: TAKEDA, Hiroyuki (18 : 00~18 : 30)

* 17:50-18:00: interval for laptop PC connection.(3G4-55, 3G4-57)

- 3G4-55[#]** Anisotropic thermal expansions arising from the decrease of local distortions in two-dimensional coordination polymers (Fac. Adv. Sci. Tech., Kumamoto Univ.) ○OHTANI, Ryo; HAYAMI, Shinya
3G4-57 Synthesis of Carbon Monoxide-Releasing Materials Based on Manganese Complex (Grad. Sch. Eng., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○IKEMURA, Shuya; CARNE, Arnau; FURUKAWA, Shuhei; KITAGAWA, Susumu

Sunday, March 19, AM

Eu, Gd, Dy

Chair: HASEGAWA, Yasuchika (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4G4-01, 4G4-02, 4G4-03, 4G4-04, 4G4-05)

- 4G4-01** Study on lanthanoid complexes having a room-temperature triplet ligand (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) SEKINE, Hiroyasu; ○ISHIDA, Takayuki
4G4-02 Synthesis of rare earth complexes using Minor Actinides separation reagent TPEN and derivatives (NSEC, JAEA) ○MURAYAMA, Tatsuya; WATANABE, Masayuki; AOYAGI, Noboru; FUJISAWA, Kiyoshi
4G4-03 Syntheses and magnetic properties of a series of chloranilate-bridged dinuclear lanthanide complexes (Fac. Sci., Fukuoka Univ.) ○NODA, Takeshi; MICHIWAKI, Shoichi; RYUTA, Ishikawa; SATOSHI, Kawata
4G4-04 Synthesis and structural properties of strong red luminescent europium (III) complexes (Grad. Sch. Eng., KIT) ○MORIGUCHI, Tetsuji; HIROSAKI, Satoshi; TSUGE, Akihiko
4G4-05* Synthesis and Emission Property of Lanthanide-Boron Heteronuclear Complexes (Grad. Sch. Sci., Kyushu Univ.) ○TOGO, Tatsu; KOSHIIYAMA, Tomomi; OHBA, Masaaki

La, Tb

Chair: KOSHIIYAMA, Tomomi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4G4-08, 4G4-09, 4G4-10, 4G4-11, 4G4-12)

- 4G4-08** Induced circular dichroism and CD imaging of chromophore-introduced chiral coordination polymers. (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; JST-PRESTO) ○EGUCHI, Toshiki; YAMADA, Teppei; NARUSHIMA, Tetsuya; KIMIZUKA, Nobuo
4G4-09[#] Syntheses and luminescence properties of amorphous Tb(III) complexes (Sch. Eng., Hokkaido Univ.) ○FERREIRA DA ROSA, Pedro Paulo; KITAGAWA, Yuichi; NAKANISHI, Takayuki; FUSHIMI, Koji; HASEGAWA, Yasuchika
4G4-10 Changes of structure and single molecule magnet properties by the oxidation of terbium bis(porphyrinato) double-decker complexes (Grad. Sch. Sci., Osaka Univ.) ○YAMANAKA, Takayo; YAMASHITA, Ken-ichi; OGAWA, Takuji
4G4-11 Control of the Magnetic Properties of Tb(III)-phthalocyaninato Double-decker Complexes by Stacking via Cation-recognizable Moieties (Sch. Sci., Tohoku Univ.) ○KISHIUE, Shuhei; HORII, Yoji; KATOH, Keiichi; YAMASHITA, Masahiro
4G4-12[#] Structures and magnetic properties of phthalocyaninato multiple-decker complexes in high oxidation states (Grad. Sch. Sci., Tohoku Univ.) ○HORII, Yoji; KATOH, Keiichi; YAMASHITA, Masahiro

Eu

Chair: MORIGUCHI, Tetsuji (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4G4-15, 4G4-16, 4G4-17, 4G4-18, 4G4-19, 4G4-20)

- 4G4-15[#]** SYNTHESSES, CRYSTAL STRUCTURES AND SPECTROSCOPIC STUDIES OF LANTHANIDE(III) DITHIOCARBAMATE COMPLEXES (Grad. Sch. Edu., Okayama Univ.) ○YAKUBU, Abdallah; KITA, Masakazu; SUZUKI, Takayoshi
4G4-16 Chiroptical property of a Europium(III) complex with valinamide moiety (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KAWAGUCHI, Takuma; IWASAWA, Daichi; IWAMURA, Munetaka; ISHII, Ayumi; NOZAKI, Koichi; HASEGAWA, Miki
4G4-17[#] Luminescence spectra of amphiphilic europium complexes with various molecular size (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○OGATA, Shuhei; TANABE, Ryota; ISHII, Ayumi; HASEGAWA, Miki
4G4-18 Structure and luminescence properties of Eu complex with linoleic

- acids (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KOTANI, Sohei; ISHII, Ayumi; HASEGAWA, Miki

- 4G4-19[#]** Syntheses and Luminescence Properties of Europium(III) Complexes Containing Triphenylene Frameworks (Sch. Eng., Hokkaido Univ.) ○SUZUE, Fumiya; KITAGAWA, Yuichi; NAKANISHI, Takayuki; FUSHIMI, Koji; HASEGAWA, Yasuchika
4G4-20 Emission Properties of Lanthanide Complexes Having Diketone Ligands Under Photo-Irradiation (Grad. Sch. Mat. Sci., NAIST) ○KITA, Yuki; KAWAI, Tsuyoshi; YUASA, Junpei

Sunday, March 19, PM

Eu, Dy

Chair: ISHII, Ayumi (13 : 30~14 : 20)

* 13:20-13:30: interval for laptop PC connection.(4G4-28, 4G4-30, 4G4-32)

- 4G4-28[#]** Properties of Single-Molecule Magnet Behavior for Dysprosium(III) Complexes with a Nitroxide and Precursory Hydroxylamine Ligand (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○KANETOMO, Takuya; ISHIDA, Takayuki
4G4-30[#] White Emitting Proton Conducting Europium(III) based Metallo-Supramolecular Polymer (NIMS) ○YEMINENI, S L V Narayana; HIGUCHI, Masayoshi
4G4-32 Theoretical study of mononuclear europium(III) complexes with tetradentate Schiff base ligands in the solid state and in solutions. (Dept. Eng. Edu. Center, Chiba Inst. of Tech.) ○ITOH, Shuhei; TSUCHIMOTO, Masanobu; WATANABE, Masayuki; NAKAJIMA, Kiyohiko

Os, U

Chair: TSURUGI, Hayato (14 : 30~15 : 20)

* 14:20-14:30: interval for laptop PC connection.(4G4-34, 4G4-35, 4G4-36, 4G4-37, 4G4-38)

- 4G4-34** Stepwise Syntheses and Physical Properties of Hetero Pentanuclear Metal Complexes Containing Osmium Ions (LCCMS, IMS; Sch. Physical Sci., SOKENDAI; Grad. Sch. Sci., Nagoya Univ.; Fac. Sci., Fukuoka Univ.; ACT-C, JST) ○MATSUI, Chihiro; IZU, Hitoshi; OKAMURA, Masaya; KAWATA, Satoshi; KONDO, Mio; MASAOKA, Shigeyuki
4G4-35 Synthesis and Reactivity of an Organometallic Osmium Complex Bearing One Labile Coordination Site (Sch. Eng., Osaka Univ.) ○AOKI, Kurumi; SUGIMOTO, Hideki; ITOH, Shinobu
4G4-36 Preparation and Reactivity of Osmium(III)-amine Complexes Supported by a Tetradentate N4 Ligand (Sch. Eng., Osaka Univ.) ○FUJIMOTO, Tomohiro; SUGIMOTO, Hideki; ITOH, Shinobu
4G4-37 Reactivity of High-valent Osmium Complexes with Various Inorganic Anions. (Grad. Sch. Eng., Osaka Univ.) ○HIRATA, Yuka; SUGIMOTO, Hideki; ITOH, Shinobu
4G4-38 Synthesis and Characterization of Novel [3 + 1 + 1] Uranyl Complex as Lewis Acid Catalyst in Nucleophilic Acyl Substitution (IIR, Tokyo Tech.) ○AKASHI, Shin; TAKAO, Koichiro

Others

Chair: SUGIMOTO, Hideki (15 : 30~16 : 30)

* 15:20-15:30: interval for laptop PC connection.(4G4-40, 4G4-41, 4G4-42, 4G4-43, 4G4-44, 4G4-45)

- 4G4-40** Synthesis and Properties of a Nonionic Mixed-Valence Octanuclear Vanadium(IV/V) Oxide Cluster Complex with a C_3 Symmetry. (Grad. Sch. Sci. Eng., Chuo Univ.) ○INOUE, Yuta; KODAMA, Shintaro; SATO, Hirohiko; ISHII, Youichi
4G4-41 Synthesis, structures, and luminescence properties of novel meso-substituted phosphorus(V) porphyrin complexes (Grad. Sch. Mat. Sci., Univ. of Hyogo; JASRI) ○UMEGAKI, Kei; ISHIGAMI, Haruna; OZAWA, Yoshiki; SUGIMOTO, Kunihisa; ABE, Masaaki
4G4-42 Synthesis and characterization of a dimer of triarylamine bearing a tri-coordinate boron moiety (Grad. Sch. Mat. Sci., Univ. of Hyogo; Grad. Sch. Mat. Sci., NAIST) ○TAHARA, Keishiro; KOYAMA, Haruya; OZAWA, Yoshiki; MASAOKA, Abe; KIKUCHI, Jun-ichi
4G4-43 Discrimination of Zinc and Cadmium by Quinoline- and Isoquinoline-Based Fluorescent Heptadentate Ligands (Fac. Sci., Nara Women's Univ.) ○KANEDA, Minori; TAKEKOSHI, Ayaka; MIKATA, Yuji
4G4-44 Cluster fabrication from Bi complexes assembled in a phenylazomethane dendrimer (Lab. Chem. Life Sci., Tokyo Tech.) ○IMAOKA, Shotaro; KAMBE, Tetsuya; IMAOKA, Takane; YAMAMOTO, Kimihisa
4G4-45 Preparation of Group 4 Metal Amido Complexes with Amidophenolato Ligand (Sch. Eng. Sci., Osaka Univ.) ○INOUE, Mariko; LOPEZ, Michael; TSURUGI, Hayato; MASHIMA, Kazushi

Room G5

Sixth Building J634

Coordination Chemistry, Organometallic Chemistry

Thursday, March 16, AM

Ru

Chair: WADA, Tohru (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(1G5-01, 1G5-02, 1G5-03, 1G5-04, 1G5-06)

1G5-01 Preparations and Reactivities of SO-Bridged Dinuclear Ruthenium Complexes (Grad. Sch. Eng., Nagasaki Univ.) ○TAKEMOTO, Nobuko; ARIKAWA, Yasuhiro; HORIUCHI, Shinnosuke; SAKUDA, Eri; UMAKOSHI, Keisuke

1G5-02 Red Light-Driven Hydrogen Evolution Photosensitized by a New Triruthenium(II) Polypyridyl Dye. (Fac. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○TSUJI, Yutarō; YAMAUCHI, Kosei; SAKAI, Ken

1G5-03 A Ruthenium Complex Sensitizer with Pyridyl Anchors for a Highly Stable Water-Reduction Dye-Sensitized Photoelectrochemical Cells (Fac. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○TAKIJIRI, Kohei; OZAWA, Hironobu; SAKAI, Ken

1G5-04[#] Encapsulation of Emissive Metal Complexes within a Hydrogen-bonded Capsule (Grad. Sch. Eng., Nagasaki Univ.) ○HORIUCHI, Shinnosuke; TANAKA, Hiroto; SAKUDA, Eri; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke

1G5-06 Encapsulation Condition Dependent Emission Properties of Ru Complexes within a Hexameric Capsule (Grad. Sch. Eng., Nagasaki Univ.) ○TANAKA, Hiroto; HORIUCHI, Shinnosuke; SAKUDA, Eri; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke

Chair: ISHIDA, Hitoshi (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(1G5-08, 1G5-09, 1G5-11, 1G5-12)

1G5-08 Preparations and Reactivities of Nitrido-Bridged Dinuclear Ruthenium Complexes (Grad. Sch. Eng., Nagasaki Univ.) ○FUJINO, Hiroki; OTSUBO, Yuji; ARIKAWA, Yasuhiro; HORIUCHI, Shinnosuke; SAKUDA, Eri; UMAKOSHI, Keisuke

1G5-09[#] Mechanistic studies on water oxidation catalyzed by an oxido-bridged triruthenium complex (Fac. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○TSUBONOCHI, Yuta; YAMAUCHI, Kosei; SAKAI, Ken

1G5-11 Photochemical Hydrogen Evolution Based on Charge Storage into Ionic Liquid Layer (Fac. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○KUGE, Keita; YAMAUCHI, Kosei; SAKAI, Ken

1G5-12[#] Highly Robust Systems for Photochemical Hydrogen Evolution Based on a Single-molecular Electron-storage Device (Fac. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○YAMAMOTO, Keiya; SAKAI, Ken

Chair: SAKUDA, Eri (11:20~12:10)

* 11:10-11:20: interval for laptop PC connection.(1G5-15, 1G5-16, 1G5-17, 1G5-18, 1G5-19)

1G5-15 Synthesis and Redox Properties of a Ru(II) Complex with a 6,6'-Dismidino-2,2'-Bipyridine Ligand (Grad. Sch. Sci., Rikkyo Univ.) ○KODAMA, Satoshi; YAMANAKA, Masahiro; WADA, Tohru

1G5-16 Reaction Mechanisms of Photochemical CO₂ Reduction Catalyzed by *Trans*(Cl)-Ru(bpy)(CO)₂Cl₂ (Grad. Sch. Sci., Kitasato Univ.) ○ISHIDA, Hitoshi; KITAMURA, Kyohei; SATO, Yusuke

1G5-17 Photochemical CO₂ Reduction by Novel Supramolecular Photocatalysts in Which Photosensitizing and Catalytic Sites Connect with a Peptide Linker (Grad. Sch. Sci., Kitasato Univ.) ○KOJIMA, Chiaki; ISHIDA, Hitoshi

1G5-18 Synthesis and Crystal Structures of Tetranuclear Cubane-like Ruthenium Complex Bridged by Polycyano Anion (Grad. Sch. Sci., Kobe Univ.) ○TOMINAGA, Takumi; MOCHIDA, Tomoyuki

1G5-19 Thermal Properties of Tetranuclear Cubane-like Ruthenium Complexes Generated by Photoreaction of Ruthenium-Containing Ionic Liquids (Grad. Sch. Sci., Kobe Univ.) ○HIGASHI, Tomomi; TOMINAGA, Takumi; MOCHIDA, Tomoyuki

Thursday, March 16, PM

Chair: YAMAUCHI, Kosei (13:30~14:30)

* 13:20-13:30: interval for laptop PC connection.(1G5-28, 1G5-29, 1G5-30, 1G5-31, 1G5-32)

1G5-28 Supramolecular aggregation of metal complexes through H-bonding interactions and its application to surface modification on nano-carbon materials (Grad. Sch. Sci. Eng., Chuo Univ.) ○OKA, Shota; OZAWA, Hiroaki; HAGA, Masa-aki

1G5-29 Theoretical Study of Mixed-valence Tetra-nuclear Ru Complexes: Electronic Structure and Application to Molecular Devices (Center for Promotion of Higher Edu., Kogakuin Univ.) ○TOKUNAGA, Ken

1G5-30 Synthesis and Redox Properties of Ru Complexes with (pyridine-2,6-diyl)bis(4,7-benzimidazolequinone) (Grad. Sch. Sci. Eng., Chuo Univ.) ○YANO, Genki; OZAWA, Hiroaki; SATAKE, Akiharu; HAGA, Masaaki

1G5-31 Synthesis and properties of bis(tridentate) ruthenium complexes containing pyrazole groups at both ends (Grad. Sch. Sci. Eng., Chuo Univ.) ○KOBAYASHI, Shunsuke; OZAWA, Hiroaki; HAGA, Masa-aki

1G5-32[#] Electrochemical behavior of dinuclear Ru complexes with pyrene anchors on 2D carbon surface toward electronic device application (Fac. Sci. Eng., Chuo Univ.; NRI, AIST) ○OZAWA, Hiroaki; KATRI, Norihiko; OKIGAWA, Yuki; ISHIHARA, Masatou; HAGA, Masa-aki

Zn

Chair: UEMURA, Takashi (14:40~15:10)

* 14:30-14:40: interval for laptop PC connection.(1G5-35)

1G5-35[#] Young Scholar Lectures of CSJ "Flexibility" in Porous Crystals for Exotic Functions (Grad. Sch. Eng., The Univ. of Tokyo) ○SATO, Hiroshi

Au

Chair: ITOH, Shinobu (15:20~16:20)

* 15:10-15:20: interval for laptop PC connection.(1G5-39)

1G5-39[#] CSJ Award for Creative Works Development of Metallo-ligand Approach and Rational Creation of Multinuclear Coordination Compounds Based on Thiol-Type Ligands (Grad. Sch. Sci., Osaka Univ.) ○KONNO, Takumi

Ru

Chair: HAGA, Masaaki (16:30~17:30)

* 16:20-16:30: interval for laptop PC connection.(1G5-46, 1G5-48, 1G5-50, 1G5-51)

1G5-46[#] Selective syntheses and electrochemical properties of hetero multinuclear metal complexes (LCCMS, IMS; Sch. Physical Sci., SOKENDAI; Grad. Sch. Sci., Nagoya Univ.; Fac. Sci., Fukuoka Univ.; ACT-C, JST) ○IZU, Hitoshi; OKAMURA, Masaya; KANAIKE, Mari; VIJAYENDRAN, Praneeth; KAWATA, Satoshi; KONDO, Mio; MASAOKA, Shige-yuki

1G5-48[#] Synthesis of ruthenium(II) complex bearing a thiourea derivative (Inst. Sci. Eng., Kanazawa Univ.) ○KAWAMOTO, Keisuke; SATO, Takuya; HAYASHI, Yoshihito

1G5-50 Substituent modification and electrochemical properties of cyclic tetramers with oxo-propionato bridged triruthenium complex as a molecular unit. (Grad. Sch. Mat. Sci., Univ. of Hyogo; Grad. Sch. Eng., Kyushu Univ.) ○DAICHO, Keita; OZAWA, Yoshiki; SHIMIZU, Haruka; ONO, Toshikazu; HISAEDA, Yoshio; ABE, Masaaki

1G5-51 Neutral-Ionic Transition in a Chain Complex Tuned by Guest Molecule Sorption (IMR, Tohoku Univ.) ○TAKAHASHI, Yusuke; NARUSHIMA, Keisuke; NISHIO, Masaki; KOSAKA, Wataru; SEKINE, Yoshihiro; TANIGUCHI, Kouji; MIYASAKA, Hitoshi

Chair: NIHEI, Masayuki (17:40~18:40)

* 17:30-17:40: interval for laptop PC connection.(1G5-53, 1G5-55, 1G5-57)

1G5-53[#] Gas-responsive Porous Magnet of a Layered Assembly of Paddle-wheel-type Diruthenium Unit and TCNQ (IMR, Tohoku Univ.) ○KOSAKA, Wataru; LIU, Zhaoyuan; ZHANG, Jun; MIYASAKA, Hitoshi

1G5-55[#] Construction of Photo-Driven Hydrogen Evolution Space Based on Hybrid Inorganic Membrane (iCELLs) (Grad. Sch. Sci., Kyushu Univ.) ○NAKANISHI, Keita; COOPER, Geoffrey; POINTS, Laurie; BLOOR, Leanne; OHBA, Masaaki; CRONIN, Leroy

1G5-57^{*} Synthesis of hydride-bridged Ru dinuclear dithiolene complex (Fac. Sci. Technol., TUS) ○SAGAWA, Takuya; TSUKADA, Satoru; GUNJI, Takahiro

Friday, March 17, PM

Au

Chair: TSUNOYAMA, Hironori (13:00~13:30)

* 12:50-13:00: interval for laptop PC connection.(2G5-25)

2G5-25 Young Scholar Lectures of CSJ Optical properties of nuclearity- and shape-controlled metal subnano clusters: experimental and theoretical study (Fac. Env. Earth Sci., Hokkaido Univ.) ○SHICHIBU, Yukatsu

Si, Ge, Sn, Pb

Chair: KANNO, Ken-ichiro (13:40~14:40)

* 13:30-13:40: interval for laptop PC connection.(2G5-29, 2G5-30, 2G5-31, 2G5-32, 2G5-33, 2G5-34)

2G5-29 The effect of organic dehydrating agents on direct synthesis of tetraalkoxysilane (IRC3, AIST) ○FUKAYA, Keisuke; FUKAYA,

- Norihisa; CHOI, Seong Jib; HORIKOSHI, Toshio; SATO, Kazuhiko; CHOI, Jun-chul
- 2G5-30** Rapid Synthesis of Sequence-Controlled Oligosiloxanes (IRC3, AIST) ○MATSUMOTO, Kazuhiro; SATO, Kazuhiko; SHIMADA, Shigeru
- 2G5-31** Hydride Reduction of Alkoxysilanes by Metallocene-Type Yttrium Catalyst (IRC3, AIST) ○AOYAGI, Keiya; MATSUMOTO, Kazuhiro; NAKAJIMA, Yumiko; SATO, Kazuhiko; SHIMADA, Shigeru
- 2G5-32** Lewis base-catalyzed reduction of alkoxysilane with borane (IRC3, AIST) ○OHMORI, Yu; MATSUMOTO, Kazuhiro; NAKAJIMA, Yumiko; SATO, Kazuhiko; SHIMADA, Shigeru
- 2G5-33** Synthesis, Structures, and Properties of Expanded Cage-Silsesquioxanes (Sagami Chemical Research Institute) ○TANAKA, Ryoji
- 2G5-34** Ruthenium-Catalyzed Annulation Reaction between Secondary Diarylsilanes and Internal Alkynes via C-H Bond Cleavage (Grad. Sch. Sci. Eng., Chuo Univ.) ○OHTSUKA, Nobuhiko; TOKORO, Yuichiro; FUKUZAWA, Shin-ichi

Chair: FUKAYA, Norihisa (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(2G5-36, 2G5-37, 2G5-38, 2G5-39, 2G5-40, 2G5-41)
- 2G5-36** Ruthenium-Catalyzed Hydrosilylation of Alkynes Using Various Hydrooligosilanes without Si-Si Bond Cleavage (Grad. Sch. Sci. Tech., Gunma Univ.) ○AIKAWA, Yumi; KANNO, Ken-ichiro; KYUSHIN, Soichiro
- 2G5-37** Ruthenium-Catalyzed Z-Selective Hydrosilylation of Alkynes without Si-Si Bond Cleavage of Hydrooligosilanes (Grad. Sch. Sci. Tech., Gunma Univ.) ○NOGUUCHI, Seiya; KANNO, Ken-ichiro; KYUSHIN, Soichiro
- 2G5-38** Reactions of A Chloride Adduct of Borasilene (Grad. Sch. Sci., Tohoku Univ.) ○SUZUKI, Yuko; ISHIDA, Shintaro; IWAMOTO, Takeaki
- 2G5-39** Synthesis and Reactivity of Hydrosilylborane (Grad. Sch. Sci., Eng., Hosei Univ.) ○KOYANAGI, Ryota; KAWACHI, Atsushi
- 2G5-40** Synthesis and Reactions of Functionalized Silylboranes (Grad. Sch. Sci., Eng., Hosei Univ.) ○TANAKA, Kou; KAWACHI, Atsushi
- 2G5-41** Reactivity of Silyl-substituted Cyclobutadiene accompanied by C=C Double Bond Rotation (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○OKANIWA, Kento; NAKAMOTO, Masaaki; SEKIGUCHI, Akira

Chair: KAWACHI, Atsushi (16 : 00~17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(2G5-43, 2G5-44, 2G5-45, 2G5-46, 2G5-47, 2G5-48)
- 2G5-43** Synthesis and Properties of Novel Benzodisilacyclobutadiene (Grad. Sch. Sci., Tohoku Univ.) ○SUGAWARA, Shohei; ISHIDA, Shintaro; IWAMOTO, Takeaki
- 2G5-44** Chlorosilylene Stabilized by an Iminophosphonamide Ligand: Synthesis, Structure and Reactivity (Grad. Sch. Sci., Eng., Saitama Univ.) ○TAKAHASHI, Shintaro; NAKATA, Norio; ISHII, Akihiko
- 2G5-45** Reactions of A Cyclic (Alkyl)(amino)silylene (Grad. Sch. Sci., Tohoku Univ.) ○KOSAI, Tomoyuki; ISHIDA, Shintaro; IWAMOTO, Takeaki
- 2G5-46** Reaction of Disilyne with Alkali Metal Halides (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○HATTORI, Futa; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 2G5-47[#]** Dihalodigermenes Stabilized by the Bulky Rind Groups (Fac. Sci. Eng., Kindai Univ.) ○HAYAKAWA, Naoki; NUMATA, Yasuyuki; KAWAII, Hotaka; YAMATANI, Kenta; GODA, Shun; HASHIZUME, Daisuke; SUGAHARA, Tomohiro; SASAMORI, Takahiro; TOKITO, Norihiro; MATSUO, Tsukasa
- 2G5-48** Reactivity of a Cationic Metallogermylene toward Nitrogen-Containing Compounds (Fac. Sci., Gakushuin Univ.; Sch. Sci., Tohoku Univ.) ○INOMATA, Koya; MOTOMATSU, Mirei; HIGUCHI, Maika; WATANABE, Takahito; TOBITA, Hiromi; MOCHIDA, Kunio

Chair: ICHINOHE, Masaaki (17 : 10~17 : 40)

- * 17:00-17:10: interval for laptop PC connection.(2G5-50, 2G5-51, 2G5-52)
- 2G5-50** Synthesis of Stannylenes Bearing the Bulky Rind groups (Fac. Sci. Eng., Kindai Univ.) ○NUMATA, Yasuyuki; KONAKA, Shigeaki; HAYAKAWA, Naoki; HARA, Kohei; TANIKAWA, Tomoharu; MATSUO, Tsukasa
- 2G5-51** Synthesis of Plumbylenes Bearing the Bulky Rind groups (Fac. Sci. Eng., Kindai Univ.) ○KONAKA, Shigeaki; HAYAKAWA, Naoki; MATSUO, Tsukasa
- 2G5-52** Investigation on Coordination Ability of Triple-decker-type Stannole to Transition Metals (Grad. Sch. Sci., Eng., Saitama Univ.) ○HAMADA, Jumpei; FURUKAWA, Shunsuke; SAITO, Masaichi

Saturday, March 18, AM

Fe

Chair: YAMAUCHI, Kosei (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3G5-01, 3G5-03, 3G5-05, 3G5-06)
- 3G5-01[#]** Tuning redox potential of a pentanuclear iron water oxidation catalysts by ligand modifications. (Functional Coordination Chemistry) ○VIJAYENDRAN, Praneeth; KONDO, Mio; OKAMURA, Masaya; MASAOKA, Shigeyuki

- 3G5-03[#]** A pentanuclear iron catalyst for water oxidation with low overpotential (LCCMS, IMS; Grad. Sch. Sci., Nagoya Univ.; Fac. Sci., Fukuoka Univ.; ACT-C, JST) ○OKAMURA, Masaya; KUGA, Reiko; KAWATA, Satoshi; KONDO, Mio; MASAOKA, Shigeyuki
- 3G5-05** Synthesis of multinuclear complexes of first-row transition metals with a cage-type ligand having bis(imino)pyrrole groups (Grad. Sch. Sci., Osaka Univ.) ○KAJITA, Motoki; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro
- 3G5-06** Photochemical Dehydrogenation of Methanol Catalyzed by *o*-Aminophenolato Complexes (Fac. Sci. Eng., Chuo Univ.) ○KIM, Suhyang; TANAKA, Ryota; WAKIZAKA, Masanori; MATSUMOTO, Takeshi; CHANG, Ho-chol

Chair: HOSHINO, Norihisa (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3G5-08, 3G5-10, 3G5-12, 3G5-13)
- 3G5-08[#]** Correlation between Magnetic Behavior and Inclusion Structure of an NO Clathrate of Fe(II)Pt(II) Porous Coordination Polymer (Grad. Sch. Sci., Kyushu Univ.) ○MISHIMA, Akio; HORI, Akihiro; MATSUDA, Ryotaro; KITAGAWA, Susumu; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 3G5-10[#]** Development of new spin crossover Fe(II) complexes with short hydrogen bonds. (IMCE, Kyushu Univ.) ○NAKANISHI, Takumi; SATO, Osamu
- 3G5-12** Crystal polymorphs and magnetic properties of oxygen bridged dinuclear iron salen complexes (IHI Co., Ltd.; Fac. Sci. Tech., Keio Univ.) ○MUROFUSHI, Shoko; AKIBA, Nana; SATO, Hiroshi; YOSHIIHISA, Kumiko; EGUUCHI, Haruki; KOCHI, Takuya; KAKIUCHI, Fumiotoshi
- 3G5-13** Study on pybox-iron(II) spin-crossover complexes with substituent effects from the 4-position of the pyridine ring (Sci. Eng., The Univ. of Electro-Communications) ○KIMURA, Akifumi; ISHIDA, Takayuki

Chair: ISHIDA, Takayuki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3G5-15, 3G5-16, 3G5-17, 3G5-18, 3G5-19, 3G5-20)
- 3G5-15** Crystal Structures and Physical Properties of Novel Neutral Heteroleptic Iron Complexes (Grad. Sch. Sci., Kobe Univ.) ○MURATA, Suguru; TAKAHASHI, Kazuyuki; SAKURAI, Takahiro; OHTA, Hitoshi; YAMAMOTO, Takashi; EINAGA, Yasuaki
- 3G5-16** Magnetism and redox properties of triangular iron(III) complexes templated by triphenylene derivatives (IMRAM, Tohoku Univ.) ○HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki
- 3G5-17[#]** Correlation between Iodine Migration in Hofmann-type Porous Coordination Polymer Solid Solutions and Magnetic Property (Grad. Sch. Sci., Kyushu Univ.) ○TSUJI, Miho; MISHIMA, Akio; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 3G5-18** Study on substitution effects of functional groups on iron [2×2] grid-type complexes showing spin transition (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○ISHIKAWA, Daisuke; SHIGA, Takuya; OSHIO, Hiroki
- 3G5-19** Responsivity of Magnetically-bistable Porous Coordination Polymers to Alkane Derivatives (Grad. Sch. Sci., Kyushu Univ.) ○YOSHINO, Haruka; MISHIMA, Akio; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 3G5-20** Control of stacking structures of the two-dimensional coordination polymers M^{II}Pd(CN)₄ (M = Fe, Co) (Fac. Sci., Kumamoto Univ.) ○MATSUNARI, Hiromu; OHTANI, Ryo; HAYAMI, Shinya

Saturday, March 18, PM

Chair: SATO, Osamu (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3G5-28, 3G5-30, 3G5-31, 3G5-32, 3G5-33)
- 3G5-28[#]** Functionalities and structures of cyanido-bridged Co-W bimetal assemblies (Grad. Sch. Sci., The Univ. of Tokyo) ○NAKABAYASHI, Koji; CHORAZY, Szymon; MIYAMOTO, Yasuto; KOMINE, Masaya; TAKAHASHI, Daisuke; KINOSHITA, Takaaki; SIEKLUCKA, Barbara; OHKOSHI, Shin-ichi
- 3G5-30[#]** Photo-reversible magnetization in a two-step spin-crossover Fe-Nb cyanido-bridged metal assembly (Grad. Sch. Sci., The Univ. of Tokyo) ○IMOTO, Kenta; OHKOSHI, Shin-ichi
- 3G5-31** Structure and magnetic properties of transition-metal complexes involving bipyridinyl- nitroxides (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○ONDO, Akihiro; ISHIDA, Takayuki
- 3G5-32** Spin Dynamics of Linear Two-Coordinated Iron(I) Complex with Rind Ligands (Grad. Sch. Arts and Sci., The Univ. of Tokyo; Fac. Sci. Eng., Kindai Univ.) ○OKAZAWA, Atsushi; NIKAI, Masanori; HAMURA, Masahiro; GODA, Shun; HAYAKAWA, Naoki; MATSUO, Tsukasa
- 3G5-33[#]** Hysteretic spin crossover around room temperature of a mononuclear iron(II) complex with an asymmetric tetradentate ligand (Fac. Edu., Gifu Univ.) ○HAGIWARA, Hiroaki; MASUDA, Takuya

Chair: NIHEI, Masayuki (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3G5-35, 3G5-36, 3G5-37, 3G5-38, 3G5-39, 3G5-40)
- 3G5-35** Photochemical Hydrogen Evolution Reaction of *o*-Phenylenediamine

- Iron(II) Complexes (Fac. Sci. Eng., Chuo Univ.) ○KOIKE, Takuji; YAMAMOTO, Risa; MATSUMOTO, Takeshi; CHANG, Ho-chol
- 3G5-36** Construction of Multi-electron and -proton Storage System Based on *o*-Phenylenediamine/*o*-Benzoquinodiiimine Iron(II) Complexes (Fac. Sci. Eng., Chuo Univ.) ○YAMAMOTO, Risa; MATSUMOTO, Takeshi; CHANG, Ho-chol
- 3G5-37** Syntheses and Electrons/Protons Transfer of New Complexes with Substituted *o*-Phenylenediamine and *o*-Benzoquinodiiimine (Fac. Sci. Eng., Chuo Univ.) ○AKISAWA, Hideaki; YAMAMOTO, Risa; MATSUMOTO, Takeshi; CHANG, Ho-chol
- 3G5-38** Structure of Alpha-keto Acid Iron(II) Complex and Their Reactivity toward Dioxygen. (Ibaraki Univ.) ○SAKUMA, Syuhei; FUJISAWA, Kiyoshi
- 3G5-39** Structures and Properties of Iron Dinitrosyl Complexes by Using N2 Type Ligand (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○KURIHARA, Haruka; FUJISAWA, Kiyoshi
- 3G5-40** Structures and Properties of Iron(II) Complexes by Using Planar N3 Type Ligand (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○MINAKAWA, Yurika; FUJISAWA, Kiyoshi

Chair: MASAOKA, Shigeyuki (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3G5-42, 3G5-43, 3G5-44, 3G5-45, 3G5-46, 3G5-47)
- 3G5-42** Photocatalytic CO₂ Reduction Using a Cu(I) Complex Photosensitizer and Fe(II) Ions with Various Aromatic Diimines (Sch. Sci., Tokyo Tech.) ○IRIMAJIRI, Mina; TAKEDA, Hiroyuki; MIZUTANI, Toshihide; ISHITANI, Osamu
- 3G5-43[#]** Oxidation of Light Alkanes by μ -Nitrido Dinuclear Iron Complex Formed in Supramolecular Heterodimer of a Porphyrin and a Phthalocyanine (Grad. Sch. Sci., Nagoya Univ.; IMCE, Kyushu Univ.) ○MIHARA, Nozomi; YAMADA, Yasuyuki; MORITA, Kentaro; IGAWA, Kazunobu; TOMOOKA, Katsuhiko; TANAKA, Kentaro
- 3G5-44** Synthesis and catalytic properties of multinuclear metal complexes having cage-type ligands (Fac. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○SAKOTA, Kosuke; TSUBONOUCHI, Yuta; YAMAUCHI, Kosei; SAKAI, Ken
- 3G5-45** Reactivity of Transition-metal Complexes of A Redox Active Ligand toward Alkanes (Grad. Sch. Eng., Osaka Univ.) ○OKABE, Shinsuke; MORIMOTO, Yuma; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu
- 3G5-46** Preparation Novel Magnetic Ionic liquids composed of Hybrid Type Anion (Grad. Sch. Edu., Kagawa Univ.) ○TAKEOKA, Rina; TAKAGI, Yumiko
- 3G5-47[#]** Synthesis of π -Bridged Thiolate Iron Carbonyl Complexes by Using Thiophene Derivatives (Grad. Sch. Sci., Osaka City Univ.) ○HIROTSU, Masakazu; ISHIMOTO, Yukari; NAKAJIMA, Hiroshi

Chair: CHANG, Ho-chol (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(3G5-49, 3G5-51, 3G5-53, 3G5-54)
- 3G5-49^{#*}** Chemisorption-induced Two-Way Structural Transformation in a Metal-Organic Framework Thin Film (Dep. Chem., Sch. Sci., Kyoto Univ.) ○HARAGUCHI, Tomoyuki; OTSUBO, Kazuya; SAKATA, Osami; FUJIWARA, Akihiko; KITAGAWA, Hiroshi
- 3G5-51^{*}** Synthesis and Electrochemical Property Control of Edge-sharing Hydroxyl-bridged Multinuclear Metal Complexes (Grad. Sch. Sci., Kyushu Univ.) ○TSUJI, Yasuhiro; MISHIMA, Akio; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 3G5-53** Electronic interaction between two ferrocene moieties of the coordinated hydrazone ligands in metal complexes (Aichi Univ. of Educ.) ○UEDA, Keiji; NAKAJIMA, Kiyohiko
- 3G5-54** Synthesis of Electrical Conductive Fe (II) Porous Coordination Polymer for Electrochemical Devices (Grad. Sch. Eng., Kyoto Univ.) ○KURIBAYASHI, Takaki; HORIKE, Satoshi; KITAGAWA, Susumu

Chair: NAKAJIMA, Kiyohiko (18 : 10~18 : 30)

- * 18:00-18:10: interval for laptop PC connection.(3G5-56, 3G5-57)
- 3G5-56** Synthesis and Reactivities of Iron Complex Bearing a Tris(pyrazolylmethyl)amine Ligand (Sch. Mater. & Chem. Tech., Tokyo Tech.; PRESTO, JST) ○KONUMA, Hiroyuki; KUWATA, Shigeki
- 3G5-57** Synthesis of a pyrophosphate bridged diiron(III) complex (Sch. Sci. Eng., Tokyo Denki Univ.) ○MIYAZATO, Yuji; IMAIZUMI, Kota; TANAKA, Rikako; WADA, Tohru; MATSUSHITA, Nobuyuki

Sunday, March 19, AM

Ru

Chair: NAGAO, Hirota (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4G5-01, 4G5-03, 4G5-04, 4G5-05, 4G5-06)
- 4G5-01^{*}** Photoelectrochemical CO₂ Reduction Reaction and the HCOOH/CO Selectivity by Ru Complex Polymer - Heterojunctioned p-type Fe₂O₃ Hybrid Photocathode (Toyota Central R&D Labs., Inc.) ○SEKIZAWA, Keita; SATO, Shunsuke; MORIKAWA, Takeshi

- 4G5-03** Synthesis of Heterobimetallic Complexes with a Macrocyclic Bis (aminomethyl)pyridyl Ligand (Grad. Sch. Sci., Osaka Univ.) ○MASUDA, Hiroyuki; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro
- 4G5-04** CO₂ reduction utilizing various porous coordination polymer hybrid catalysts with Ru-CO complex (WPI-iCeMS, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○MINE, Shuhei; KAJIWARA, Takashi; KITAGAWA, Susumu
- 4G5-05** Preparation and catalytic performance of microscopic metal nanoclusters from metal-porphyrin-Ru12 complex on oxide surface (Grad. Sch. Sci., Nagoya Univ.) ○MURATSUGU, Satoshi; YAMAGUCHI, Atsuki; YOKOTA, Genichi; MAENO, Tomoaki; TADA, Mizuki
- 4G5-06** C-H and C-C bond scission reactions of aromatic aldehydes including a sulfur atom upon coordination to metal ions. (Aichi Univ. of Educ.) ○SUGINO, Shogo; NAKAJIMA, Kiyohiko

Chair: HATANAKA, Tsubasa (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4G5-08, 4G5-09, 4G5-10, 4G5-11, 4G5-12)
- 4G5-08** Synthesis of 2D sheet coordination lattice using redox-active trinuclear metal complexes (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○NAKAIE, Takuya; OZAWA, Yoshiki; SUGIMOTO, Kunihisa; ABE, Masaaki
- 4G5-09[#]** Electronic Structures and Reduction Behaviors of Ruthenium(II) Complexes Having the Azo Group (Sci. Tec., Sophia Univ.) ○SUMOGE, Yuka; NAGAO, Hirota
- 4G5-10** Syntheses and redox behaviors of amidine ruthenium complexes having bis(2-pyridylcarbonyl)aminato (Sci. Tec., Sophia Univ.) ○SANO, Shunsuke; NAGAO, Hirota
- 4G5-11** Synthesis and Reactions of Azidoruthenium(II) Complex Bearing Bis (2-pyridylcarbonyl)aminato Ligand (Sci. Tec., Sophia Univ.) ○TAKANO, Yuki; SUMOGE, Yuka; NAGAO, Hirota
- 4G5-12^{#*}** Development of the supramolecular complex photocatalysts for CO₂ reduction molecular-designed for the immobilization with heterogeneous materials (Sch. Sci., Tokyo Tech.) ○TAMAKI, Yusuke; ISHITANI, Osamu

Chair: ABE, Masaaki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4G5-15, 4G5-17, 4G5-19, 4G5-20)
- 4G5-15^{#*}** Conversion reaction of nitrate into nitrogen monoxide on the doubly oxido-bridged Ru(III)-Ru(IV) diruthenium complex (Sci. Tec., Sophia Univ.) ○SUZUKI, Tomoyo; NAGAO, Hirota
- 4G5-17^{*}** Oxidative cracking of benzene derivatives in aqueous media catalyzed by ruthenium(II)-NHC complexes at low temperature (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SHIMOYAMA, Yoshihiro; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko
- 4G5-19** Photocatalytic substrate oxidation with a water-soluble saddle-distorted porphyrin as a photocatalyst (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○OHKAWA, Shumpei; ISHIZUKA, Tomoya; OCHIAI, Hidemi; KOTANI, Hiroaki; SADAKANE, Masahiro; OHKUBO, Kei; FUKUZUMI, Shunichi; KOJIMA, Takahiko
- 4G5-20** Solvent Effects on oxidation reactions of substrates by an isolable Ru (IV)-oxo complex (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○TAKAYAMA, Chiaki; KOTANI, Hiroaki; ISHIZUKA, Tomoya; KOJIMA, Takahiko

Sunday, March 19, PM

Ni, Ru

Chair: KODAMA, Shintaro (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(4G5-28, 4G5-29, 4G5-30, 4G5-31, 4G5-32)
- 4G5-28** Synthesis and Properties of a Novel Ruthenium Complex Having an NAD Model Ligand (Fac. Sci., Univ. of Toyama; Grad. Sch. Sci. Eng., Univ. of Toyama) ○SAITO, Tsubasa; OHTSU, Hideki; TSUGE, Kiyoshi
- 4G5-29** Alkane Hydroxylation Catalyzed by Nickel(II) Complexes Supported by Redox Active Phenol Ligands (Sch. Eng., Osaka Univ.; Sch. Eng., Osaka Univ.) ○ITOH, Mayu; MORIMOTO, Yuma; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu
- 4G5-30** Alkane-oxidation in Perfluorocarbon Solvents Catalyzed by Transition-metal Complexes Supported by Fluorous Ligands (Sch. Eng., Osaka Univ.) ○SHIMAOKA, Yuki; MORIMOTO, Yuma; ITOH, Shinobu
- 4G5-31[#]** Solvent Effects on Alkane Hydroxylation Catalyzed by A Nickel Complex with Hydrophobic Substituents (Grad. Sch. Eng., Osaka Univ.) ○MORIMOTO, Yuma; NISHIMOTO, Aika; ITOH, Shinobu
- 4G5-32^{#*}** Dualistic adsorption behavior of switchable MOF (Dept. Inorg. Chem. TUD) BON, Volodymyr; KAVOOSI, Negar; SENKOVSKA, Irena; ○EHRING, Sebastian; KASKEL, Stefan

Ni

Chair: TSUGE, Kiyoshi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(4G5-35, 4G5-36, 4G5-38, 4G5-39)
- 4G5-35[#]** Structure and Electronic State of Two-Dimensional Layered-Type

Nickel MX-Ghost Leg Complexes under High-Pressure (Dep. Chem., Sch. Sci., Kyoto Univ.) ○HASHIGUCHI, Ryota; OTSUBO, Kazuya; MAESATO, Mitsuhiko; OHISHI, Yasuo; HIRAO, Naohisa; KITAGAWA, Hiroshi

- 4G5-36[#]** Physical properties of hydrogen-bonded inorganic-organic hybrids based on chains with an alternating metal-sulfur component (Dep. Chem., Sch. Sci., Kyoto Univ.) ○HAYASHI, Mikihiro; SUGIMOTO, Kunihisa; KITAGAWA, Hiroshi
- 4G5-38** Electrochemical Hydrogen Production Catalyzed by Nickel(II) Dithiolates Having Polyazaphthalene Units (Fac. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○AIMOTO, Yutaro; KOSHIBA, Keita; YAMAUCHI, Kosei; SAKAI, Ken
- 4G5-39[#]** Mechanistic Studies on Hydrogen Evolution from Water Catalyzed by Ni(II)-based Molecular Catalysts (Fac. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○YAMAUCHI, Kosei; NAKASHIMA, Shintaro; KOSHIBA, Keita; SAKAI, Ken

Chair: MORIMOTO, Yuma (15 : 50~16 : 20)

* 15:40-15:50: interval for laptop PC connection.(4G5-42, 4G5-43, 4G5-44)

- 4G5-42** Supramolecular Chirality of Achiral trans-Bis(salicylaldiminato)Ni(II) Complex developed by Cholesteric Liquid Crystal (Sch. Eng. Sci., Osaka Univ.) ○MAEDA, Takatoshi; KUWAJIMA, Yuki; AKITA, Takuya; IWAI, Yosuke; KOMIYA, Naruyoshi; UCHIDA, Yoshiaki; NAOTA, Takeshi
- 4G5-43** Synthesis of NCNH-Bridged Dinuclear Nickel(II) Complexes and Their Magnetic Properties (Grad. Sch. Sci. Eng., Chuo Univ.) ○SHIGA, Natsumi; KODAMA, Shintaro; SATO, Hirohiko; ISHII, Youichi
- 4G5-44** Effect of co-adsorbed molecules on the opening and closing of crystalline nano-cavities in peptide Ni(II)-macrocycles (Fac. Sci., Ochanomizu Univ.; PRESTO, JST) ○MIYAKE, Ryosuke

Room P

Hiyoshi Commemorative Hall

Thursday, March 16, AM

(10 : 00~11 : 30)

Physical Chemistry -Structure-

- 1PA-001[#]** Computational analysis of an optically active N-C axially chiral tetrahydroquinoline and the effect of protonation on its rotational transition state (Sch. Pharm., TUPLS; Coll. Eng., Shibaura Inst. of Tech.) ○YOKOJIMA, Satoshi; DOBASHI, Yasuo; HIROSHI, Hasegawa; KITAGAWA, Osamu
- 1PA-002[#]** Salt concentration effect on the dissipation process of oxygen nanobubble (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○NISHIMURA, Yoshinobu; ARAI, Tatsuo
- 1PA-003** Synthesis and crystal structure of charge-transfer complexes containing N,N,N',N'-tetramethylbenzidine and TCNQ derivatives (Fac. Sys. Eng., Wakayama Univ.) ○NAKAGAWA, Takumi; MIDORO, Yuuki; SAKAI, Kensaku; YAMAKADO, Hideo
- 1PA-004** Synthesis and crystal structure of Phenanthrene-F₂TCNQ and Benzo [c]cinnoline-F₂TCNQ (Fac. Sys. Eng., Wakayama Univ.) ○NEKI, Tomoki; SAKAI, Kensaku; YAMAKADO, Hideo
- 1PA-005** Crystal structure and electric conductivity of charge transfer complexes containing dihydroadiazapentacene and TCNQ derivatives (Fac. Sys. Eng., Wakayama Univ.) ○MAEDA, Shota; SAKAI, Kensaku; YAMAKADO, Hideo
- 1PA-006** Penning ionization electron spectroscopy of sugars: electron structures and conformations (Sci. Eng., The Univ. of Electro-Communications) ○SATO, Takashi; ISHIGURO, Yuki; YAMAKITA, Yoshihiro
- 1PA-007** Structures and Electronic States of alkylpyridinimine hydrogen halogenide and the pyridinium cation (Sch. Eng., Tokyo Denki Univ.) ○IWASAKI, Naoya; SUZUKI, Takayuki
- 1PA-008** Electron distributions of push-pull para-substituted benzenes studied by highly-sensitive Penning ionization electron spectroscopy. (Sci. Eng., The Univ. of Electro-Communications) ○MATSUI, Hiroshi; ISHIGURO, Yuki; YAMAKITA, Yoshihiro
- 1PA-009[#]** Searching for anhamonic low frequency mode in green fluorescent protein (Grad. Sch. Sci. Eng., Saga Univ.) ○FUJISAWA, Tomotsumi; UNNO, Masashi
- 1PA-010[#]** Thionyl chloride-methanol complex: a quantum chemical and matrix-isolation study (Fac. Sci. Eng., Iwate Univ.) ○SUZUKI, Eiichi; TAGUCHI, Gaku; TOIGUCHI, Yuta; YASHIRO, Hitoshi
- 1PA-011[#]** Infrared spectra of formic acid hydrate clusters in comparison with anharmonic vibrational calculations (RIEMT, AIST) ○FUMIYUKI, Ito
- 1PA-012[#]** Determination of Solvation Structure of 3-Aminopyridine-(Water-Methanol) Mixed Clusters by Vibrational Spectroscopy (Fac. Sci., Fukuoka Univ.) ○YAMADA, Yuji; OGAWA, Mao; NIBU, Yoshinori
- 1PA-015** What is the difference between water and aqueous solutions with respect to cooling behavior - relation to the temperature dependence of density (Osaka Univ.; HUS) ○YAMASHITA, Ryunosuke; KANEKO, Fumitoshi; MATSUMOTO, Atsushi; OGAWA, Naohisa
- 1PA-016[#]** Low-Temperature Effect on Oxidase Activity of Cytochrome c in Aqueous Ionic Liquids Solutions (Dept. Appl. Chem., Nat. Def. Acad.) ○TAKEKIYO, Takahiro; ISHIKAWA, Yuka; UESUGI, Yuuki; YOSHIMURA, Yukihiro
- 1PA-017[#]** X-ray study of molecular association of alcohols having bulky substituents, DCHM and TCHM (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○SAITO, Kazuya; HISHIDA, Mafumi; KOIKE, Kent; NAGATOMO, Shigenori; YAMAMURA, Yasuhisa
- 1PA-018[#]** Rotational diffusion coefficients of proteins along denaturation curve investigated by fluorescence anisotropy decay method (Dep. Chem., Sch. Sci., Kyoto Univ.) ○YOSHITAKE, Tomoyuki; TERAZIMA, Masahide
- 1PA-019[#]** Preparation and Photochromism of Ionic Liquids Containing Cationic and Anionic Spiropyran (Dept. Eng., Grad. Sch. Eng., Tokyo Univ. of Sci., Yamaguchi) ○OKADA, Hirochika; FUNASAKO, Yusuke; INOKUCHI, Makoto
- 1PA-020[#]** Echo of precessional motion caused by flow inversion in the nematic phase of 8CB (Fac. Sci., Fukuoka Univ.) KOGA, Masashi; IMANISHI, Ryusei; ○NEGITA, Keishi
- 1PA-021[#]** Investigation of New Ionic Plastic Crystals in some salts formed by elliptical-type ions (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○AKAGI, Makiya; KOTANI, Yuka; HONDA, Hisashi
- 1PA-022** Thickness dependence of organic thin film field effect transistor performances studied by in situ, real time measurements (Grad. Sch. Sci., Nagoya Univ.) ○EGUCHI, Keitaro; AWAGA, Kunio; BELDJOUDI, Yassine; RAWSON, Jeremy
- 1PA-023** Clarification of Mechanism of Fuel Cell using Titanium Oxide Catalyst for ESR Spectroscopy (Fac. Sci., Niigata Univ.; Center for Inst. Anal., Niigata Univ.; Institute of Adv. Sci., Yokohama Natl. Univ.; Green Hydrogen Research Center, Yokohama Natl. Univ.) ENDO, Natsumi; ○FURUKAWA, Ko; ISHIHARA, Akimitsu; OHTA, Ken-ichiro
- 1PA-024** Synthesis and Physical Properties of Single-component Molecular Metals, [M(dmdt)] (M = Pd and Pt) (Coll. Hum. Sci., Nihon Univ.) ○ISHII, Tatsuru; LIU, Qizhi; ZHOU, Biao; KASAI, Hidetaka; NISHIBORI, Eiji; KOBAYASHI, Akiko
- 1PA-025** Development of Hydrogen-bonded Novel Organic Conductors based on Catechol-fused EDT-TTF: Control of Structure and Properties with the Base Reagent (ISSP, The Univ. of Tokyo) ○NORITOMI, Takako; UEDA, Akira; DOI, Ryouhei; TERASHI, Takuya; ENOMOTO, Masaya; MORI, Hatsumi
- 1PA-026** Development of new multi-functional materials using TTF-thiol derivatives (Grad. Sch. Sci., Osaka Pref. Univ.) ○MIKI, Ayano; OKUNO, Ryota; FUJIWARA, Hideki
- 1PA-027** Development of new multi-functional materials using TTF derivatives with a pyrimidine ring (Graduate School of Science, Osaka Prefecture University) ○SAITO, Manami; OKUNO, Ryota; FUJIWARA, Hideki
- 1PA-028** Interaction between squaric acid substituted TTF derivatives and transition metal ions (Grad. Sch. Sci. Eng. For Edu., Univ. of Toyama) ○KOIZUMI, Shin; MIYAZAKI, Akira
- 1PA-029** Photoinduced magnetic properties of TTF derivatives including nitroxid radical (Grad. Sch. Sci. and Technol., Niigata Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) ○ABE, Masanori; FURUKAWA, Ko; HORIKIRI, Kazuki; FUJIWARA, Hideki
- 1PA-030** Syntheses and physical properties of paramagnetic metal complexes composed of novel Schiff-base type multidentate TTF-ligands (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○KANESAKA, Aoba; KUDO, Yusuke; WACHI, Atsusi; SHIGA, Takuya; OSHIO, Hiroki; NISHIKAWA, Hiroyuki
- 1PA-031** Electrical conductivity under high pressure and magnetism of (S, S)-DM-MeDH-TTP salts (Coll. Sci., Ibaraki Univ.) ○MIYAMOTO, Sho; NISHIKAWA, Hiroyuki; SHIGA, Takuya; OSHIO, Hiroki; JANG, Dong Hyun; SUR, Yeahan; MURATA, Keizo; KIM, Kee Hun
- 1PA-032** Development of molecular conductors based on TPDT-TTP and DT-TTF derivatives with ethyl groups (Grad. Sch. Sci., Eng., Ehime Univ.; Ehime Univ. RU: PGeS) ○KATAYAMA, Shogo; SHIRAHATA, Takashi; MISAKI, Yohji
- 1PA-033[#]** A bilayer κ -type Ni(mnt)₂ anion radical salt with no long-range magnetic order down to 25 mK (Grad. Sch. Sci., The Univ. of Tokyo; NIMS; Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○OHDE, Chie; KUSAMOTO, Tetsuro; NISHIHARA, Hiroshi; SUGIURA, Shiori; TERASHIMA, Taichi; UJI, Shinya
- 1PA-034** Relationship between structure and photo-magnetic properties for Donor-Acceptor-type COF (Fac. Sci., Niigata Univ.) ○OTAKA, Hidehito; FURUKAWA, Ko; JIANG, Donglin
- 1PA-035[#]** Photoluminescence behaviors of organic-inorganic type and all-inorganic type single perovskite nanocrystals. (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○YOSHIMURA, Hiroyuki; NAIKI, Hiroyuki; MASUO, Sadahiro
- 1PA-036[#]** Elucidation of the mechanism of full color emission observed in the ESIPt fluorophore of BTImP (Grad. Sch. Phot. Sci., CIST; IMRAM,

- Tohoku Univ.) OTSUCHIYA, Saki; SAKAI, Ken-ichi; NAKANE, Yuta; AKUTAGAWA, Tomoyuki
- 1PA-037[#]** Crystal Structure and Photochromic Behavior of Salt Containing Cationic Spiropyran (Fac. Eng., Tokyo Univ. of Sci., Yamaguchi) ○TAKEBAYASHI, Junichiro; FUNASAKO, Yusuke; INOKUCHI, Makoto
- 1PA-038[#]** Development of a highly sensitive fluorescence probe for the detection of sialidase in cancer tissue (Grad. Sch. Pharm., The Univ. of Tokyo) ○RIVAS, Charlotte; KAMIYA, Mako; URANO, Yasuteru
- 1PA-039[#]** The study of pH-responsive photosensitizer aming at water soluble incurve. (Sch. Sci. Tech., Gunma Univ.) ○ISOGAI, Masataka; HORIUCHI, Hiroaki; HIRAKAWA, Kazutaka; OKUTSU, Tetsuo

Physical Chemistry -Chemical Kinetics and Dynamics-

- 1PA-041** Excitation wavelength dependence of nonradiative deactivation process of N,N-Dimethylindoline (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○MATSUMOTO, Akifumi; NAGASAWA, Yutaka
- 1PA-042** Solvent dependent trans-cis photo-isomerization dynamics of N,N-diacetylindigo (Coll. Life Sci., Ritsumeikan Univ.) ○NAKAGAWA, Hirofumi; NAGASAWA, Yutaka
- 1PA-043** Ultrafast dynamics of degenerated excited states of symmetric triphenylmethane dye (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○DAICHO, Ayako; NAGASAWA, Yutaka
- 1PA-044[#]** A gas-phase reaction model for Si-CVD simulation under atmospheric pressure (Grad. Sch. Creative Sci. Eng., Waseda Univ.) ○NODA, Kaito; KUNIOSHI, Nilson; FUWA, Akio
- 1PA-045** Oxygen desorption from silver oxide cluster anions investigated by thermal desorption spectrometry in the gas phase (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KAWASHIMA, Nako; YAMAGUCHI, Masato; KOYAMA, Kohei; MIYAJIMA, Ken; MAFUNE, Fumitaka
- 1PA-046** Preparation of acetylene derivative-connected Au₁₁ cluster dimer (Grad. Sch. Sci. Eng., Ibaraki Univ.) IZUOKA, Akira; ○TAKAHASHI, Naofumi
- 1PA-047** Valence control of phosphine-protected Au₁₁ clusters through a ligand exchange reaction (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○KAWAMURA, Ryo; ENOMOTO, Mizuki; IZUOKA, Akira
- 1PA-048** Observation of multiphoton ionization dynamics of a phenylenediamine derivative in condensed phase (Grad. Sch. Eng. Sci., Osaka Univ.) ○KOGA, Masafumi; YONEDA, Yusuke; SOTOME, Hikaru; MIYASAKA, Hiroshi
- 1PA-049** Femtosecond dynamics of efficient cycloreversion reaction of a diarylethene derivative in the higher excited states attained by nonresonant simultaneous two-photon absorption (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAGASAKA, Tatsuhiro; SOTOME, Hikaru; KAMADA, Kenji; MIYASAKA, Hiroshi; KOBATAKE, Seiya
- 1PA-050** Development of emission lifetime measurement method with picosecond-submicrometer spatiotemporal resolution by using stimulated emission (Sch. Eng. Sci., Osaka Univ.) ○OKAMOTO, Shunsuke; MURAMATSU, Masayasu; ITO, Syoji; MIYASAKA, Hiroshi
- 1PA-051** Development of ultra-fast imaging method under microscope by stimulated emission (Sch. Eng. Sci., Osaka Univ.) ○NAKAMURA, Shinya; MURAMATSU, Masayasu; ITO, Syoji; MIYASAKA, Hiroshi
- 1PA-052** Correlation between one-photon cycloreversion reaction yields and activation energies of the S₁ potential energy surface of diarylethene derivatives with difference reaction yields (Sch. Eng. Sci., Osaka Univ.) ○TACHII, Yuka; SEI, Ryosuke; NAGASAKA, Tatsuhiro; UNE, Kanako; SOTOME, Hikaru; ISHIBASHI, Yukihide; KOBATAKE, Seiya; IRIE, Masahiro; MIYASAKA, Hiroshi
- 1PA-053** Determination of molar absorption coefficients in the excited state using perfect excitation of the ground state molecules. (Grad. Sch. Eng. Sci., Osaka Univ.) KOGA, Masafumi; NAGASAKA, Tatsuhiro; SOTOME, Hikaru; ○MIYASAKA, Hiroshi
- 1PA-054[#]** Charge Carrier Dynamics of CH₃NH₃PbBr_{3-x}I_x with Hetero-Band Structures (Grad. Sch. Sci., Kobe Univ.) ○KARIMATA, Izuru; KOBORI, Yasuhiro; TACHIKAWA, Takashi
- 1PA-055[#]** Fluorescence microspectroscopic study on aggregation-induced emission enhancement of a tetraphenylethene derivative by laser trapping (Dep. App. Chem., NCTU; Grad. Sch. Mat. Sci., NAIST; Lab. Chem. Life Sci., Tokyo Tech.) ○LIN, Jhao-rong; WANG, Shun-fa; ISHIWARI, Fumitaka; FUKUSHIMA, Takanori; MASUHARA, Hiroshi; SUGIYAMA, Teruki
- 1PA-056[#]** Laser trapping dynamics of amyloid fibril formation of cytochrome c monomer and dimers (Dep. App. Chem., NCTU; Grad. Sch. Mat. Sci., NAIST) ○CHANG, Chieh-ju; HAYASHI, Yugo; HIROTA, Shun; YUYAMA, Ken-ichi; SUGIYAMA, Teruki; MASUHARA, Hiroshi
- 1PA-057[#]** Femtosecond diffuse reflectance spectroscopy of 2,2'-Bipyridine Moieties Embedded in Periodic Mesoporous Organosilica (Toyota Central R&D Labs., Inc.) ○YAMANAKA, Ken-ichi; MAEGAWA, Yoshifumi; INAGAKI, Shinji
- 1PA-058[#]** Protein crystallization induced by surface plasmonic resonance in International Space Station "KIBO" (Grad. Sch. Sci. Tech., Gunma Univ.) ○KASAHARA, Shuuhei; HORIUCHI, Hiroaki; OKUTSU, Tetsuo
- 1PA-059** An experiment to obtain protein crystal from solution that crystal dose not appear (Sch. Sci. Tech., Gunma Univ.) ○YAMAKOSHI, Miki;

- SASAKI, Yuuta; HORIUTI, Hiroaki; OKUTSU, Tetsuo
- 1PA-060** Relaxation Processes from Excited State in Xanthene Dye Aggregates (Sch. Eng., Nihon Univ.) ○ENOKI, Masami; KATOH, Ryuzi
- 1PA-061** Evaluation of Amount of Water Molecules Adsorbed on Nanocrystalline TiO₂ Films: Effect of Humidity, Temperature, Ultraviolet Irradiation (Sch. Eng., Nihon Univ.) ○ISHIZAKI, Ryota; KATOH, Ryuzi
- 1PA-062** Temperature Dependence of Singlet Fission Rate in Diphenylhexatriene Crystals (Sch. Eng., Nihon Univ.) ○HASHIMOTO, Masaaki; KATOH, Ryuzi
- 1PA-063** Preparation of oriented films based on methylene blue adsorbed on TiO₂ single crystals (Sch. Eng., Nihon Univ.) ○FUKINO, Ryosuke; KATOH, Ryuzi
- 1PA-064** Photoinduced Electron Injection in Dye-sensitized Rutile TiO₂ Films (Sch. Eng., Nihon Univ.) ○NISHI, Akiho; KATOH, Ryuzi
- 1PA-065[#]** Photoionization of agrochemical molecules in the presence of cyclodextrin by using laser pulse irradiation (Grad Sch. Eng., FUT) ○SASAKI, Mio; YANO, Atsushi; TAKESHITA, Tatsuya; HARA, Michihiro
- 1PA-066** Photoionization of spiropyran derivatives in the presence of cyclodextrin by using double-laser pulses irradiation (Grad Sch. Eng., FUT) ○YANO, Atsushi; TAKESHITA, Tatsuya; SASAKI, Mio; HARA, Michihiro
- 1PA-067** Development of fluorescence microscopy observation based on the magnetic field effect in photoinduced electron transfer reaction (Grad. Sch. Sci., Kobe Univ.) ○SAKURAI, Manabu; KOBORI, Yasuhiro; TACHIKAWA, Takashi
- 1PA-068** Electrochemical activation of small molecules using carbon nanotube-modified electrodes (IIS, The Univ. of Tokyo) ○TANAKA, Hayato; ISHII, Kazuyuki
- 1PA-069[#]** Effect of reduction condition on the formation of spatial periodic structures (Grad. Sch. Sci., Eng., Yamagata Univ.) ○MATSUE, Masayo; SHIMIZU, Yushiro; FANG, Qing; UNOURA, Kei; NABIKA, Hideki
- 1PA-070[#]** Smart response of self-motile droplet: Energy transduction from chemical to mechanical motion under isothermal condition (Fac. Life Med. Sci., Doshisha Univ.) ○SATO, Shihō; SAKUTA, Hiroki; YOSHIKAWA, Kenichi

Colloid and Interface Chemistry

- 1PA-073** Siloxane-Passivated Si Quantum dots: Investigation on Luminescence Quantum Yield (Hiroshima Univ. N-BARD) ○FUJIMOTO, Keisuke; XIN, Yunzi; SAITOW, Ken-ichi
- 1PA-074** Synthesis of multi-metal substituted ε-Fe₂O₃ and control of its electromagnetic wave absorption properties and magnetic properties (Grad. Sch. Sci., The Univ. of Tokyo) ○OGATA, Koreyoshi; NAMAI, Asuka; OHKOSHI, Shin-ichi
- 1PA-075[#]** Self-Assembly of Metal Nanoparticles via Electrostatic Interaction of Peptide Ligands (Fac. Sci. Eng., Kindai Univ.) ○NAKAO, Issei; SUMIDA, Kento; KITAMATSU, Mizuki; SOEJIMA, Tetsuro
- 1PA-076** Crystal Structural Transformation of Isolated Iron Oxide Nanoparticles by SiO₂ Shell and their Magnetic Property (IMRAM, Tohoku Univ.) ○HOSODA, Natsumi; MURAMATSU, Atsushi; NAKAYA, Masahumi
- 1PA-077[#]** Seed-mediated growth approach using various phenolic reductants for shape-controlled synthesis of gold nanoparticles. (Grad. Sch. Med., Eng., Univ. of Yamanashi) ○MOCHIZUKI, Chihiro; SHINMORI, Hideyuki
- 1PA-078** Self-assembly of CdS/CdSe Core/Shell nanorods and their optical properties (Grad. Sch. Mat. Sci., NAIST) ○TAKISHITA, Takao; TANIGUCHI, Yuki; KAWAI, Tsuyoshi; NAKASHIMA, Takuya
- 1PA-079[#]** Development of plasmonic Al nanomaterials leading to death of HeLa cell. (Coll. Sci. Tech., Nihon Univ.) ○HONDA, Jotaro; SUGAWA, Kosuke; OTSUKI, Joe
- 1PA-080** Characterization of Adsorption of Block Copolymer Composed of Poly(ethylene glycol) and Polypyridine onto Silica Nanoparticle (Grad. Sch. Chem. Sci. Technol., TUS) ○ITO, Maiko; KOZUMA, Daisuke; MATSUKUMA, Daisuke; OTSUKA, Hidenori
- 1PA-081[#]** Specific Photoluminescence Enhancement of Semiconducting Carbon Nanotubes by Localized Surface Plasmon Resonance of Anisotropic Silver Nanoparticles (Coll. Sci. Tech., Nihon Univ.) ○IGARI, Shuto; UCHIDA, Koji; SUGAWA, Kosuke; OTSUKI, Joe; OKAZAKI, Toshiya
- 1PA-082** Synthesis of Self-Organizing Organic-Inorganic Hybrid Fe₃O₄ Nanoparticles Modified with Liquid-Crystalline Organic Dendrons (Grad. Sch. Eng., Tohoku Univ.) ○ASAMI, Shunya; OSUGI, Kazusa; MATSUBARA, Masaki; NAKAYA, Masafumi; MURAMATSU, Atsushi; KANIE, Kiyoshi
- 1PA-083[#]** Evaluation of refractive index susceptibility of licalized surface plasmon resonance of palladium nanoplates (Coll. Sci. Tech., Nihon Univ.) ○ISEKI, Keito; SUGIMOTO, Daiki; SUGAWA, Kosuke; OTSUKI, Joe
- 1PA-084[#]** CO₂ electroreduction on Cu-Sn nanoalloys using a flow reaction system (Grad. Sch. Sci., Kyushu Univ.; I₂CNER, Kyushu Univ.) ○KOGA, Yukari; WATANABE, Ryota; KITANO, Sho; MA, Sichao; KENIS, Paul; SADAKEYO, Masaaki; YAMAUCHI, Miho
- 1PA-085[#]** Functionalization of Hexagonal Boron Nitride Nanosheet with Polyglycerol and its Biomedical Application (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○MARUYAMA, Kyouhei; KOMATSU, Naoki

- 1PA-086[#]** Synthesis of metal nano capsules including a Metal-Organic-Framework using arc plasma gun (Fac. Sci., Kyushu Univ.) ○AZENO, Takashi; SADAKEYO, Masaaki; KATO, Kenichi; YAMAUCHI, Miho
- 1PA-087[#]** Densely arranged two-dimensional anisotropic metal nanoparticle assemblies at the liquid-liquid interface with surface enhanced Raman scattering property (Coll. Sci. Tech., Nihon Univ.) ○INOUE, Wataru; YAMAGUTI, Kengo; SUGAWA, Kosuke; OTSUKI, Joe
- 1PA-088[#]** Preparing self-propelled metal-polystyrene janus particles by using UV irradiation method (Fac. Eng., TUS) ○ISHIMARU, Shota; IMURA, Yoshiro; WANG, Ke Xuan; KAWAI, Takeshi
- 1PA-089[#]** Study of diffusion dynamics of surfactant-mixture/water ternary systems by means of coherent light scattering (Sch. Kno Eng. Tokyo City Univ.) ○KURABE, Sae; TAKAGI, Shinsaku
- 1PA-090[#]** Dynamic Self-assembled Chiral Molecules for Active Liquid Crystalline Material (Bioinspired soft matter unit) ○ZHANG, Shijin; ZHANG, Ye
- 1PA-091[#]** Formation of Helical Nanowires Self-Assembled from Nucleotide-Appended Bolaamphiphiles and Salmon Testes DNA (NARO) ○IWAURA, Rika
- 1PA-092[#]** Aqueous artificial light-harvesting antenna prepared with amphiphilic zinc chlorophyll derivatives (Fac. Sci. Tech., Ryukoku Univ.; Graduate School of Life Sciences, Ritsumeikan University) MIYATAKE, Tomohiro; ○HOKOYAMA, Ryota; TAMIAKI, Hitoshi
- 1PA-093[#]** Development and characterization of the conjugated polymer/supramolecule hybrid gels (Grad. Sch. Eng., Sojo Univ.) ○TOUNOUE, Yuki; TAMARU, Shun-ichi; SHINKAI, Seiji
- 1PA-094[#]** Synthesis and characterization of a fluorescent liquid having thiophenes (Fac. Eng., Kagawa Univ.) ○SATO, Yuika; ISODA, Kyosuke
- 1PA-095[#]** Synthesis and Physical Properties composed of TTF Derivatives for Scaffolds materials of Nanofibers (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○IWAMOTO, Kentaoro; NISHIHARA, Sadafumi; TATEWAKI, Yoko
- 1PA-096[#]** Photoresponsiveness of the Hydrogel of Diarylethene Having Hydrophilic Side Chains. (Grad. Sch. Eng., Kyoto Univ.) ○SAKAKIBARA, Seiya; HIGASHIGUCHI, Kenji; MATSUDA, Kenji
- 1PA-097[#]** Time-Limitable Hydrogels from Three-Armed Collagen-Mimetic Peptides with Various Branching Structures (Fac. Sci. Eng., Doshisha Univ.) ○MISHINA, Naoya; HIGASHI, Nobuyuki; KOGA, Tomoyuki
- 1PA-098[#]** Utilizing self-assembly of oligopeptide to induce large lipid rafts formation (OIST) ○CAO, Dong; ZHANG, Ye
- 1PA-099[#]** Mesomorphic property and gelation ability of biphenyl derivatives having a perfluoroalkyl group (Fac. Eng., Yamaguchi Univ.) ○FUJIMOTO, Yuki; CAO, Banpeng; MORITA, Yuki; OKAMOTO, Hiroaki
- 1PA-100[#]** Synthesis and gelation ability of the ester compounds having fluoroalkyl groups at the both terminal position (Fac. Eng., Yamaguchi Univ.) ○MURATA, Yuki; KANESHIGE, Yuta; MORITA, Yuki; OKAMOTO, Hiroaki
- 1PA-101[#]** Synthesis and gelation ability of phenyl benzoate compounds having a perfluoroalkylbutoxy group at the terminal position (Fac. Eng., Yamaguchi Univ.) ○MORITA, Yuki; CAO, Banpeng; HAYASHIDA, Sana; TAKEBAYASHI, Daiki; OKAMOTO, Hiroaki
- 1PA-102[#]** Preparation and MRI contrast ability of novel metal-free magnetic nanoemulsions. (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○MORONAGA, Satori; NAGURA, Kota; TAKEMOTO, Yusa; SHIMONO, Satoshi; UCHIDA, Yoshiaki; SHIINO, Akihiko; KATO, Tatsuhiro; TAMUMURA, Rui
- 1PA-103[#]** Controlling color of iridescent emulsions by temperature-responsive water-absorbing resin (Fac. Eng., TUS) ○YASHIRO, Nayuta; IMURA, Yoshiro; WANG, Ke-hsuan; KAWAI, Takeshi
- 1PA-104[#]** Surface-active Properties of Hydrolyzable Surfactants Containing an Olefin Group and their Application for Separating Agents (Fac. Textile Sci. Technol., Shinshu Univ.) ○KUDO, Yuma; SUZUKI, Keita; ITOH, Yoshihiro
- 1PA-105[#]** Electrodeposition of Waterborne Carbon Black Paint Containing Hydrolyzable Emulsifiers on Metal Plates (Fac. Textile Sci. Technol., Shinshu Univ.; Grad. Sch. Sci. Technol., Shinshu Univ.) ○ITO, Yoshihiro; ITAKURA, Akinobu
- 1PA-106[#]** High Performance of Waterborne Carbon Black Paint Containing Hydrolyzable Emulsifiers (Grad. Sch. Sci. Technol., Shinshu Univ.) ○NOZAWA, Ikuya; ITOH, Yoshihiro
- 1PA-107[#]** Preparation of patterned TiO₂ films using mixed Langmuir monolayers of long-chain alkylamine and perfluoroalcohol (Grad. Sch. Eng., Tokyo City Univ.) ○USUI, Akitoshi; TAKAHASHI, Masashi
- 1PA-108[#]** A Study on Control of Two-dimensional Distribution of Gold Nanoparticles and its Application using Monolayer-template Structures (Grad. Sch. Eng., Utsunomiya Univ.) ○NAKATA, Yuya; NASUNO, Eri; KATO, Norihiro; IIMURA, Ken-ichi
- 1PA-109[#]** Electrochemical study of the interaction between the biological molecules using modified gold electrodes (Dept. Mat. Sci. Eng., Nat. Def. Acad.) ○OZAWA, Shinichiro; ABE, Hiroshi
- 1PA-110[#]** Stabilization of Phenylfluorenyl Radical by Fixing on a Tripod-shaped Trithiol Monolayer (Grad. Sch. Eng., Mie Univ.) ○YOSHIKAWA, Hayato; KITAGAWA, Toshikazu
- 1PA-111[#]** Electroformation of giant vesicles with low electric voltage (Grad. Sch. Sci. Technol., Shinshu Univ.) NAKAMURA, Satoshi; ○OKUMURA, Yukihisa
- 1PA-112[#]** Photoinduced fusion of liposomes containing malachite green for drug delivery to cells (Dept. of Chem. Eng., NNCT) ○WATANABE, Mai; HAYASHI, Keita; UDA, Ryoko
- 1PA-113[#]** Formation and application of giant vesicle using self-reproducing oil droplet system (Dept. of Bioorg., Okazaki Inst. Integr. Biosci.) ○KURIHARA, Kensuke
- 1PA-114[#]** Characterization of Adsorbed Films on Aqueous Solutions of Sugar Surfactant/SDS Mixtures (Grad. Sch. Eng., Utsunomiya Univ.) ○KANEKO, Eri; IIMURA, Ken-ichi; ONO, Makoto; ENDO, Koji
- 1PA-115[#]** Fabrication and Optical Property Evaluation of Layered Thin Films with Gold Nanoparticle and Fluorescent Dye (Grad. Sch. Eng., Utsunomiya Univ.) ○OHTA, Masahiro; NASUNO, Eri; KATO, Norihiro; IIMURA, Ken-ichi
- 1PA-116[#]** Surface modification of poly(tetrafluoroethylene) plates under different plasma treatment and photografting conditions and enhancement of their adhesive properties (Coll. Industrial Tech., Nihon Univ.) ○KIYOKAWA, Hidenobu; KIMURA, Yuji; YAMADA, Kazunori
- 1PA-117[#]** An effect of grafting hydrophilic monomers on adhesion of grafted polyethylene plates with chitosan solutions modified by enzymatic reaction (Coll. Industrial Tech., Nihon Univ.) ○MORIKAWA, Yuki; KIMURA, Yuji; YAMADA, Kazunori
- 1PA-118[#]** Effect of Self-Assembled Monolayer Chain Length on Anthracene Dimer Adsorption on Gold Substrate (Grad. Sch. Mat. Sci., NAIST) ○SAKAKURA, Mitsuhiro; HAYASHI, Hironobu; YAMADA, Hiroko
- 1PA-119[#]** Improvement of anticorrosion performance on galvanized steel plate by the addition of graphene oxide into the polydopamine-based coating polymers (Fac. Sci. Eng., Chuo Univ.) ○SAITO, Ryo; OZAWA, Hiroaki; HAGA, Masa-aki
- 1PA-120[#]** Molecular Orientation Analysis of Ionic Liquid/Solid Interfaces Based on SFG Spectroscopy (WPI-AIMR, Tohoku Univ.) ○IMAMURA, Takako; FEDERICI CANOVA, Filippo; MIZUKAMI, Masashi; KURIHARA, Kazuo
- 1PA-121[#]** Withdrawn
- 1PA-122[#]** Removal of branched alkylphenol through enzymatic quinone oxidation and subsequent quinone adsorption on chitosan beads (Coll. Industrial Tech., Nihon Univ.) ○TSUSHIMA, Mitsuki; KIMURA, Yuji; KASHIWADA, Ayumi; YAMADA, Kazunori
- 1PA-123[#]** The relationship between reduction and deposition of uranium (NSEC, JAEA) ○OUCHI, Kazuki; OTOBE, Haruyoshi; KITATSUJI, Yoshihiro
- 1PA-124[#]** Dynamic wettability control on smooth surface for liquid manipulator and slippery coating with multi-functionality (Grad. Sch. Sci. Tech., Keio Univ.) ○TENJIMBAYASHI, Mizuki; TOGASAWA, Ryo; HIGASHI, Masaki; SHIRATORI, Seimei
- 1PA-125[#]** Development of novel lift-off technology of an electrolyzed metal-oxide thin film (Osaka Municipal Technical Research Institute) ○MITAMURA, Koji; NAKAMURA, Masashi; WATANABE, Mitsuru; CHIGANE, Masaya; WATASE, Seiji
- 1PA-126[#]** Electrodeposition of morphology controlled gold nanoparticles (Fac. Eng., TUS) ○NAKANO, Yuki; WANG, Ke-hsuan; IMURA, Yoshiro; KAWAI, Takeshi
- 1PA-127[#]** Transport of fullerenes from cyclodextrin cavity to hydrophilic gel substrate Preparation of gel substrate including fullerenes thorough (Grad. Sch. Eng., Hiroshima Univ.) ○INOUE, Yuya; SUGIKAWA, Kouta; UEDA, Masafumi; IKEDA, Atsushi
- 1PA-128[#]** Preparation of a tissue-like gel for self-organizing internal transportation networks (Faculty of Science and Technology) ○FUKUCHI, Daichi; OKAJIMA, Hirotada; OZAWA, Masaki

Energy and Related Chemistry, Geo and Space Chemistry

Solar Cells and Photocatalysis

- 1PA-131[#]** Development of dye-sensitized solar cells using zinc dipyrromethene complexes (Grad. Sch. Sci., Osaka Pref. Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) ○MIYAZAKI, Tetsu; FUJIWARA, Hideki; NGUYEN, Van Tay; MAEDA, Takeshi; NAKAZUMI, Hiroyuki
- 1PA-132[#]** Development of dye-sensitized solar cells using dye molecules containing double donor parts connected through imine spacers (Graduate School of Science, Osaka Prefecture University; Graduate School of Engineering, Osaka Prefecture University) ○HASHIMOTO, Kasumi; FUJIWARA, Hideki; NGUYEN VAN, Tay; MAEDA, Takeshi; NAKAZUMI, Hiroyuki
- 1PA-133[#]** Additive effect on the performance and optical properties of perovskite solar cell (Fac. Sci., Hiroshima Univ.; Grad. Sch. Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) ○SAKATA, Toshiki; IKEDA, Natsumi; KAJIYA, Daisuke; SAITOW, Ken-ichi
- 1PA-134[#]** Nanostructure on material surface formed by the irradiation of XeCl excimer laser (Osaka Sangyo Univ.) MIYAKE, Haruya; SHIGETA, Yoshitaka; NAKAJIMA, Katsuaki; NAKADA, Kouhei; HASHIDA, Masaki; SAKABE, Shuji; ○KUSABA, Mitsuhiro
- 1PA-135[#]** Organo-photocatalyst for dehydrogenation of ammonia borane working in the entire visible-light region (Grad. Sch. Sci. Tech., Hiroshima Univ.; Lab. Chem. Life Sci., Tokyo Tech.) ○FUJINE, Kentaro; NAGAI,

Keiji; ABE, Toshiyuki

- 1PA-136[#]** Enhancement of Hydrogen evolution ability on band-gap engineering ZnIn₂S₄ photocatalysts under visible light Irradiation. (Grad. Sch. Eng., Mie Univ.) TATEISHI, Ikki; OKATSUMATA, Hideyuki; SUZUKI, Tohru; KANEKO, Satoshi

Batteries and Electrolysis

- 1PA-137[#]** Morphology control of carbon/iron oxide composite nanofiber anode for lithium ion battery by electrodeposition (Fac. Sci. Tech., Keio Univ.) OKOBAYASHI, Yuta; ABE, Jyunichiro; KAWASE, Koki; TAKAHASHI, Keisuke; SHIRATORI, Seimei
- 1PA-138[#]** Quantum Molecular Dynamics Simulation of Electrolyte Solution for Sodium-Ion Battery (ESICB, Kyoto Univ.; RISE, Waseda Univ.) OKOSHI, Masaki; CHOU, Chien-pin; NAKAI, Hiromi
- 1PA-139[#]** Preparation of polypyrrole containing hydrophobic and carboxylate groups and its composite with oxygen evolution catalyst (Faculty of Science and Technology) OKONNO, Yoshinori; NAGATA, Toshi
- 1PA-140[#]** Synthesis of polyphenyleneethynylene containing hydrophobic groups and carboxylate groups and its combination with an oxygen evolving catalyst (Faculty of Science and Technology) OUSHIDA, Yuta; NAGATA, Toshi

Sonochemistry

- 1PA-141[#]** Improvement of the rate of sonochemical reaction by quenching radicals. (Grad. Sci. Eng., Meisei Univ.) OONO, Yuki; HARADA, Hisashi; TANAKA, Hisashi
- 1PA-142** Effects of ultrasound irradiation of synthesis of guanidines (SUMS) OFUJITA, Mitsue; FURUSHO, Yoshio

Environmental and Green Chemistry

- 1PA-145[#]** Decomposition of fluororubber in subcritical water (Fac. Sci., Kanagawa Univ.) OHONMA, Ryo; HORI, Hisao
- 1PA-146[#]** Recovery method of Cs using a thixotropic gel (Grad. Sch. Eng., KAIT) OWATANABE, Takaaki; SAITO, Takashi
- 1PA-147** Evaluation of prediction for log P of endocrine disruptor using dispersion force (Fac. Biology-Oriented Sci. Tech., Kindai Univ.) OFUJISAWA, Masao; IKEDA, Hirohito; AKI, Hatsumi; OHATA, Tomonori; KIMURA, Takayoshi
- 1PA-148** Immobilization of Lead in Fly Ash by Phosphate and Aluminium Hydroxide (Nagoya Municipal Industrial Research Institute) OHAYASHI, Tomoko
- 1PA-149** Advanced Treatment of Wastewater by a Combined Process of Hydrothermal oxidation and Ozonation (Grad. Sch. Eng., Osaka City Univ.) KOBAYASHI, Kengo; OKOMETANI, Noritsugu
- 1PA-150** Research of chelate resin bound with amidinethio urea to porous polystyrene (Sch. Eng., Tokyo Denki Univ.) OTANAKA, Satomi
- 1PA-151** Effects on the multiplication of the vegetative cells of *Bacillus subtilis* subsp. *subtilis* of halogenated benzoic acids (Tokai Univ. Grad. Sch. Sci.) OSUGITA, Hirotaka; SAKUMA, Tsubasa; ISHIHARA, Yoshimi; TAKANO, Jiro
- 1PA-152** Dedifferentiation of the halotolerant plant (Grad. Sch. Eng., KAIT) OMATSUSHITA, Yuta; KOBAYASHI, Kenta; SAITO, Takashi
- 1PA-153** Direct conversion of greenhouse gases by using insertion-type nonequilibrium plasma reactor (Grad. Sch. Eng., Saitama Inst. of Tech.) OTSUTSUMI, Masahiro; ARITANI, Hirohumi; OGATA, Atsushi
- 1PA-154** Development of high-yield recovery of regenerated cellulose using ionic liquid and basidiomycetes (Tokyo Metropolitan Ind. Tech. Res. Inst.) OHAMANO, Tomoko; KONUMA, Rumi; IIDA, Takahiko; KAWARADA, Kensuke
- 1PA-155[#]** Mechanism of solvent-free Cannizzaro reaction using calcium hydroxide (Grad. Sch. Comprehensive Scientific Research, Pref. Univ. of Hiroshima) OMATSUMOTO, Yuri; YOSHIHARU, Mitoma
- 1PA-156[#]** Dechlorination of hexachlorobenzene by metallic calcium catalyst method (Fac. Life Env. Sci, Pref. Univ. of Hiroshima) OKATO, Ryo; KATAYAMA, Yumi; TAKATA, Yukie; MITOMA, Yoshiharu
- 1PA-157[#]** Study on Ta₃N₅ thin film photo-anode electrode fabricated using sputtering method and effect of the substrate materials (Grad. Sch. Eng., The Univ. of Tokyo) OSAKATA, Kaoruho; SASAKI, Yutaka; NISHIYAMA, Hiroshi; KATAYAMA, Masao; YAMADA, Taro; DOMEN, Kazunari
- 1PA-158** Anti-dirt Coating for Concrete Block Using Titanium Oxide Photocatalytic Powder (Nagoya Municipal Industrial Research Institute) OONO, Satomi; KISHIKAWA, Nobuyuki; KAWASE, Satoru; HAYASHI, Tomoko; ASANO, Narihiro
- 1PA-159** Crystallinity and Photocatalytic Performance of Prussian Blue-loaded Tungsten Oxide (Nagoya Municipal Industrial Research Institute) OKISHIKAWA, Nobuyuki; KAWASE, Satoru; HAYASHI, Tomoko; ASANO, Narihiro; ONO, Satomi
- 1PA-160** Photodegradation of environmental mutagens by LED-irradiation in the presence of xanthene dyes as photosensitizers (Fac. of Sci., Okayama Univ. of Sci.) KUSUOKU, Daisuke; MIYAO, Sae; OMOTO, Shusuke; INOBUCHI, Masahiko; OODO, Junichi

Thursday, March 16, AM

(12 : 30~14 : 00)

Inorganic Chemistry

Syntheses and Reactions

- 1PB-001** Synthesis and swellability of Li-mica crystals using LiCl and LiF as a flux (Grad. Sch. Sci. Technol., Shinshu Univ.; Fac. Eng., Shinshu Univ.) ONOGUCHI, So; YAMAGUCHI, Tomohiro; TARUTA, Seiichi
- 1PB-002** Low-temperature formation of α -alumina from polyhydroxoaluminum complex gels containing carboxylic acids (Grad. Sch. Sci. Technol., Shinshu Univ.; Fac. Eng., Shinshu Univ.) ONAGASHIMA, Daichi; YAMAGUCHI, Tomohiro; TARUTA, Seiichi
- 1PB-003** Synthesis of MgAl-Layered Double Hydroxides through Hydrolysis of Polyhydroxoaluminum Solutions (Grad. Sch. Sci. Technol., Shinshu Univ.; Fac. Eng., Shinshu Univ.) OKOGURE, Atsuhiko; YAMAGUCHI, Tomohiro; TARUTA, Seiichi
- 1PB-004[#]** Examination of condition to prepare precursor solution for imooglite synthesis (Kitakyushu Nat. Coll. of Tech.; Kitakyushu Nat. Coll. of Tech.) OKAKIYAMA, Hironori; IZUMI, Hikaru; YAMAMOTO, Kazuya
- 1PB-005[#]** Synthesis of Cs₂PbBr₆ Perovskite Nanorods (Dep. Chem., Sch. Sci., Kyoto Univ.) OMIZUNO, Hiroki; SARUYAMA, Masaki; TERANISHI, Toshiharu
- 1PB-006** Fabrication of hollowed silicon carbide microcapsules using organosilicas (Fac. Eng., Shinshu Univ.) OODAKA, Yuki; KOIDE, Takashi; KOIDE, Takashi
- 1PB-007** Preparation of Durable Bulk Material of Sodium Tin Phosphates from Sols Synthesized Hydrothermally (Fac. Sci., Kochi Univ.) OSHIMANOCHI, Rie; SATO, Hiroki

Structures and properties of inorganic compounds

- 1PB-008** Wavelength conversion composite particles (Sumitomo Osaka Cement Company, Limited) OITO, Tomomi
- 1PB-009[#]** Synthesis, crystal structure, physical properties of trinuclear complex ; [Co₃(OOCMe₃)₆(py)₃] (Fac. Sci., Shinshu Univ.) ONAKASHIMA, Taito; OHKI, Hiroshi; ISHIKAWA, Atsushi; TAKEUCHI, Akari
- 1PB-010[#]** Solution-processed CuI thin films and orientation of phthalocyanine molecules (Grad. Sch. Sci., Eng., Yamagata Univ.) OHIRAHARA, Mana; KURIHARA, Masato
- 1PB-011[#]** Electrochemical properties of solution-processed films composed of graphitic carbon nitride analogs (Grad. Sch. Sci., Eng., Yamagata Univ.) KURIHARA, Masato; ARAI, Miyu

Solution chemistry

- 1PB-012[#]** Coordination preferences of aqueous vanadate complexes with nitrogen- and oxygen-containing multidentate ligands (Fukuoka Univ. of Educ.) OMIYAZAKI, Yoshinobu; MATSUOKA, Shiro; FUJIMORI, Takao; YOSHIMURA, Kazuhisa

Polyoxometalate

- 1PB-013[#]** Rechargeable Batteries Using Polyoxovanadate Related Compounds as Cathode Active Materials (Sch. Sci. Tech., Kwansei Gakuin Univ.) OYOSHIKAWA, Hirofumi; WANG, Heng
- 1PB-014[#]** Hydration of alkyne catalyzed by the gold(I) complex with *N*-heterocyclic carbene (NHC) ligand in the presence of polyoxometalate (Fac. Sci., Kanagawa Univ.) OIWASAKI, Yuta; MURATA, Yuichi; ARAI, Hidekazu; YOSHIDA, Takuya; NOMIYA, Kenji
- 1PB-015** Synthesis, structural analysis and electrochemical measurement of Ru-Substituted polyoxotungstates with carbonyl ligand (Grad. Sch. Eng., Hiroshima Univ.) OABE, Shinichi; NISHIKI, Kensuke; YE, Shen; SADAKANE, Masahiro; SANO, Tsuneji; TSUNOJI, Nao
- 1PB-016[#]** Synthesis and molecular structure of monomeric B-site tri-titanium (IV)-substituted Keggin-type polyoxometalate (Fac. Sci., Kanagawa Univ.) OMATSUKI, Yuhsuke; NOMIYA, Kenji
- 1PB-017** Synthesis of a highly active ruthenium-tungsten oxide catalyst for water oxidation (Grad. Sch. Eng., Hiroshima Univ.) OKIKUCHI, Masaya; SADAKANE, Masahiro; SANO, Tsuneji; TSUNOJI, Nao; MIYAMOTO, Mayumi
- 1PB-018** Synthesis and physical properties of stable Preyssler-type polyoxometalate crystal at room temperature and ambient pressure (Fac. Sci., Hiroshima Univ.) ODATE, Takuya; KATO, Chisato; MARUYAMA, Rio; MARYUNINA, Kseniya; INOUE, Katsuya; TSUNASHIMA, Ryo; NISHIHARA, Sadafumi

Porous Compounds

- 1PB-019** Formation of inclusion compounds by direct contact between a metal complex [Cd(H₂O)₂(hxdiam)₂][Ni(CN)₄] and organic guests (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ONISHIKIORI, Shin-ichi; AKI, Yusuke;

YUGE, Hidetaka

- 1PB-020[#]** Donor/acceptor molecular arrangements in flexible porous crystals (Grad. Sch. Eng., The Univ. of Tokyo) ○AU, Vonika Ka-man; SATO, Hiroshi; AIDA, Takuzo

Nanosheets and Layer Compounds

- 1PB-021[#]** Preparation of alkylammonium cation and clay nanosheet ultrathin hybrid films by an electro spray method (Dept. Appl. Chem., Nat. Def. Acad.) ○UMEMURA, Yasushi; KAIDA, Hiroki; HIRAHARA, Masanari
- 1PB-022[#]** The removal of cesium from artificial seawater by vermiculite, the study on the particle sizes. (Showa Pharm. Univ.) ○SUZUKI, Noriko; OOKI, Asumi
- 1PB-023** Effect of organic additives on the growth of silicate nanosheets on solid surfaces (Fac. Eng., Shinshu Univ.) ○YAMAUCHI, Masahiro; OKADA, Tomohiko
- 1PB-024[#]** Solid solution of Na-type layered perovskite niobate and its ion-exchange reaction (MANA, NIMS) ○IYI, Nobuo; SASAKI, Takayoshi
- 1PB-025[#]** Preparation of Layer Structured Vanadate Rb₃V₅O₁₄ and Ion Exchange Reaction (Tokuyama Coll. of Tech.) ○OHASHI, Masao
- 1PB-026[#]** Reoxidation process of chemically exfoliated MoS₂ nanosheets: Nanosheet quality, stability, and restacking behavior (MANA, NIMS) ○NURDIWIJAYANTO, Leanddas; SAKAI, Nobuyuki; MA, Renzhi; EBINA, Yasuo; SASAKI, Takayoshi
- 1PB-027** Fabrication of monolayer films of perovskite-type oxide nanosheets via spin-coating method (MANA, NIMS) ○YANO, Hitomi; EBINA, Yasuo; FUJIMOTO, Kenjiro; SASAKI, Takayoshi
- 1PB-028** Swelling behaviors of layered oxide crystals in aqueous solutions of α -, β -, and γ -aminobutyric acids (MANA, NIMS) ○INOUE, Kazuki; IYI, Nobuo; SONG, Yeji; FUJIMOTO, Kenjiro; SASAKI, Takayoshi
- 1PB-029[#]** Exfoliation behaviors of layered perovskite niobate in aqueous solutions containing quaternary ammonium hydroxides (MANA, NIMS) ○SONG, Yeji; IYI, Nobuo; EBINA, Yasuo; MA, Renzhi; MIYAMOTO, Nobuyoshi; SASAKI, Takayoshi
- 1PB-030[#]** Synthesis of 5-fluorouracil/layered double hydroxide by rapid-mixing method (Grad. Sch. Eng., Iwate Univ.) ○AISAWA, Sumio; SATO, Takuji; TAKATORI, Takuya; SANG, Jing; HIRAHARA, Hidetoshi
- 1PB-031[#]** Preparation of functional materials with a layered inorganic-organic monolith and their luminescence (NIMS) ○FUJII, Kazuko; HILL, Jonathan; HASHIZUME, Hideo; SHIMOMURA, Shuichi; ARIGA, Katsuhiko; ANDO, Toshihiro

Physical Organic Chemistry Reaction Mechanism

- 1PB-033** Structure and Reactivity of Diazomethane Bearing the Bulky Rind Group (Fac. Sci. Eng., Kindai Univ.) ○SANO, Yuya; HAYAKAWA, Naoki; YOSHIDA, Emika; MATSUI, Yasunori; IKEDA, Hiroshi; MATSUO, Tsukasa
- 1PB-034[#]** Electron-Transfer Promoted Substitution of C₆₀ Chloride by Triarylamines (Grad. Sch. Eng., Mie Univ.) ○TADA, Koji; KITAGAWA, Toshikazu
- 1PB-035[#]** Computational chemistry study of cellulose hydrolysis process (2) (The Museum of Osaka Univ.) ○TOYODA, Jiro; UEDA, Takahiro
- 1PB-036[#]** Rational Control of Fluorescence by Intramolecular Spirocyclization of Hydroxymethyl Rhodamine Derivatives (Grad. Sch. Pharm., The Univ. of Tokyo; FIFC, Kyoto Univ.; Grad. Sch. Med., The Univ. of Tokyo) ○TACHIBANA, Ryo; KAMIYA, Mako; SUZUKI, Satoshi; MOROKUMA, Keiji; URANO, Yasuteru
- 1PB-037[#]** DFT study on the ring contraction reaction of zerubone derivative (Dept. Lib. Arts, Saitama Med. Univ.) ○TSUCHIDA, Noriko; UDAKA, Yoshimi; FUKUSHIMA, Miyuki; KITAYAMA, Takashi
- 1PB-038** Reaction Mechanism and Regioselectivity on Substitution Reaction of Heterocyclic Aromatic Compound (Fac. Sci., Kochi Univ.) ○ARISAWA, Saori; KANENO, Daisuke

Organic Chemistry -Reaction and Synthesis- Aromatic Compounds

- 1PB-041** Preparation of Axially Chiral Binaphthol Ligand Coordinated with Dihydroxy Groups Introduced at 8,8'-Positions (Dept. of Chem. Eng., NNCT) ○KUROSAKI, Ryo; MASUI, Yu; YAMAMOTO, Shunya; KAMEI, Toshiyuki; SHIMADA, Toyoshi
- 1PB-042** Regioselective C-H Trifluoromethanesulfonyloxylation of Binaphthol with DIH and Trifluoromethanesulfonic Acid (Dept. of Chem. Eng., NNCT) ○NAKAZAWA, Hironobu; MASUI, Yu; KAMEI, Toshiyuki; SHIMADA, Toyoshi
- 1PB-043** Preparation of Perylene Derivative via C-H Trifluoromethanesulfonyloxylation of Binaphthol (Dept. of Chem. Eng., NNCT) ○YAMAMOTO, Shunya; NAKAZAWA, Hironobu; MASUI, Yu; KAMEI, Toshiyuki; SHIMADA, Toyoshi
- 1PB-044** Cross dimerization between ferulic acid and its related compounds (Dept. Mat. Sci., Wakayama Nat. Coll. of Tech.) ○GOMI, Daiki; NODA, Takumi; MORI, Hajime; NOMURA, Eisaku
- 1PB-045** Substituent Effect on the [3+2] Cycloaddition of Cinnamic Acids (Advanced Engineering Faculty, NIT, Wakayama College) ○NODA,

Takumi; GOMI, Daiki; MORI, Hajime; NOMURA, Eisaku

- 1PB-046** Microwave Irradiation Accelerates 4-Dimethylaminopyridine-catalyzed Michael Addition of Phenols or Anilines (Coll. Sci. Eng., Kanto Gakuin Univ.) ○LEEANANSAKSIRI, Siriwat; OKAWA, Mitsuki; TAKAHASHI, Kie; IIDA, Hirokazu
- 1PB-047** Decreasing carcinogenic substance acrylamide by the use of microwave irradiation Michael addition reaction (Coll. Sci. Eng., Kanto Gakuin Univ.) ○MIYAMOTO, Yui; SUGIURA, Mai; TAKAHASHI, Kie; IIDA, Hirokazu
- 1PB-048[#]** Synthesis of optically active odorous compounds using enzyme (Fac. Eng., Toyama Pref. Univ.) ○KAWASAKI, Masashi; KUROYANAGI, Saki; TANAKA, Yasuo; TOYOOKA, Naoki
- 1PB-049[#]** Synthesis of [16]Helicene by Multiple Photocyclization: Influence of the Precursor Sequences (Fac. Sci., Yamagata Univ.) ○ARAKI, Wataru; MURASE, Takashi
- 1PB-050** Synthesis and Reactivity of Vilsmeier Complexes (Sch. Life Dent., The Nippon Dental Univ.) ○SUZUKI, Tsuneo; TANEMURA, Kiyoshi
- 1PB-051[#]** Photocyclization of Terminally-Polyfluorinated Stilbene Derivatives toward [7]Helicenes (Fac. Sci., Yamagata Univ.) ○MATSUDA, Chikako; MURASE, Takashi
- 1PB-052[#]** Synthesis and conformational analysis of helical aromatic layered ureas with chiral substituent. (GNCT, Chem. and Mater. Sci.; Ochanomizu Univ.) ○SEKIGUCHI, Makoto; URUSHIBARA, Ko; KUDO, Mayumi; TANATANI, Aya
- 1PB-053** Synthesis of Triple[5]Helicene Derivatives (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) ○HIYAMA, Hiroaki; MATSUSHIMA, Tomoya; WATANABE, Soichiro
- 1PB-054** Stereoselective Synthesis of polysubstituted Indane Derivatives (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○QI, Xiaoxi; HOSHINO, Yujiro; HONDA, Kiyoshi
- 1PB-055** Synthesis of novel organic functional dyes by use of azaazulene derivatives (KNCT) ○INOUE, Keiki; MURATA, Michihisa; MURATA, Yasujiro; KUROTOBI, Kei
- 1PB-056** Computational Study for the Aromatic Nucleophilic Substitution of 1-Dimethylamino-2,4-bis(trifluoroacetyl)naphthalene (Grad. Sch. Eng., Kobe Univ.) SHINTANI, Takumi; OTA, Norio; ○KAMITORI, Yasuhiro; OKADA, Etsuji
- 1PB-057[#]** Synthesis and reactions of keto-dimers derived from condensed phenols (Grad. Sch. Eng., Utsunomiya Univ.) ○MATSUI, Yusuke; KIMURA, Takao; KARIKOMI, Michinori
- 1PB-058** Simple synthesis of crown ether containing azulenes (Grad. Sch. Sci., Josai Univ.) ○GOTO, Hayato; IWAI, Kyohei; WAKABAYASHI, Hidetsugu
- 1PB-059** Synthesis of an N-doped nanographene (Grad. Sch. Mat. Sci., NAIST) ○IKEDA, Erika; ARATANI, Naoki; YAMADA, Hiroko
- 1PB-060** Synthetic approach toward higher acene derivatives by using a benzodisultine (Grad. Sch. Mat. Sci., NAIST) ○TANAKA, Satoshi; ARATANI, Naoki; YAMADA, Hiroko
- 1PB-061** Synthesis and Properties of Oxidation Products Derived from 2-Borolanylguaiazulene (Grad. Sch. Sci., Eng., Saitama Univ.) ○ISHIDA, Naoya; SATO, Ohki
- 1PB-062** Three-component palladium-catalyzed reaction of propargyl carbonate with phenols and aryl boronic acid (Dept. Appl. Chem., Nat. Def. Acad.) ○TANIMOTO, Nobuaki; HAYASHI, Shoutarou; KOIZUMI, Toshio
- 1PB-063** Asymmetric organic synthesis catalyzed by L-proline immobilized on thermoresponsive copolymer that has an ionic hydrophilic segment. (Sci. Tec., Sophia Univ.) ○MIZUNO, Daisuke; RIKUKAWA, Masahiro; SUZUKI, Noriyuki
- 1PB-064** Mizoroki-Heck Reaction in Water using Thermoresponsive Polymer Micelle prepared by ATRP as a Reaction Medium (Sci. Tec., Sophia Univ.) ○YAMAUCHI, Yoshiko; RIKUKAWA, Masahiro; SUZUKI, Noriyuki
- 1PB-065[#]** Ruthenium catalyzed asymmetric aerobic oxidative coupling of 2-naphthols (I₂CNER, Kyushu Univ.) ○UENO, Takamasa; UCHIDA, Tatsuya; KATSUKI, Tsutomu
- 1PB-066** Synthetic study of fullerene derivatives having 3-7-3 fused ring systems (Faculty of Science and Technology, Ryukoku Univ.; Organic Materials Research Division, OMTRI) ○TAKAGI, Kie; IWASAWA, Tetsuo; IWAI, Toshiyuki; SUMINO, Shuhei; MATSUMOTO, Fukashi; MORIWAKI, Kazuyuki; ITO, Takatoshi; OHNO, Toshinobu
- 1PB-067** Development of stimuli-responsive bis(phosphin oxide) catalyst toward universal diastereoselectivity control of Mukaiyama aldol reaction. (Fac. Eng., TUS) ○SASAKI, Aya; HIRANUMA, Takuya; IMAHORI, Tatsushi
- 1PB-068[#]** Systematic Synthesis of Hexa-alkoxy Trithiasumanenes with Different Alkyl Chains and Their Properties (Fac. Sci., Saitama Univ.) ○KOYAMA, Masaya; HAYASHI, Keisuke; FURUKAWA, Shunsuke; SAITO, Masaichi
- 1PB-069[#]** Synthesis and molecular recognition ability of concave tetraphosphine containing naphthalene. (Konan Univ.) ○TANAKA, Yudai; KATAGIRI, Kosuke
- 1PB-070** Synthesis of azo-compounds and their ability as pH indicator (Ichikawa Gakuen Ichikawa Senior High School) ○TOMINAGA, Kurato; MISAWA, Momoha
- 1PB-071** Synthesis of 3-substituted isoindolinones from N-(2-furylmethyl)

acryl amide derivatives via the Intra-Molecular Diels-Alder Reaction. (Sch. Eng., Tokyo Denki Univ.) ○WATABE, Kenta; SHINOZAKI, Hiraku

1PB-072[#] Synthesis and Physical Properties of Supramolecular Liquid Crystals containing Nucleic Acid Bases with Siloxane Moiety (Coll. Life Sci., Ritsumeikan Univ.) ○TANAKA, Shunsuke; YOSHIKAI, Saeka; KANEKO, Kosuke; HANASAKI, Tomonori

Organic Chemistry -Reaction and Synthesis- Organometallic Compounds

Ag

1PB-075 Asymmetric Aldole Reaction of Isatins Catalyzed by Chiral Phosphine-Silver Alkoxide (Grad. Sch. Sci., Chiba Univ.) ○KAWADA, Aiko; YANAGISAWA, Akira

1PB-076[#] Silica-Supported Silver-Catalyzed [3+2] Cycloaddition of 2'-Hydroxy chalcones and azomethine ylides (Fac. Eng., Kanagawa Univ.) MADHAVAN, Suchithra; SHINDO, Takahiro; MATSUNO, Chikashi; ○OKAMOTO, Sentaro

Au

1PB-077 Synthesis of Magnetically Recoverable N-Heterocyclic Carbene-Gold(I) Catalyst and its Application to Catalytic Conversion (IRC3, AIST; Grad. Sch. Sci. Eng., Ibaraki Univ.) ○FUJII, Akira; SATO, Junichi; YASUDA, Hirokyuki; FUJITA, Ken-ichi

Bi

1PB-078 Regioselective Iodination at 4,4' and/or 6,6'-Positions of Binaphthol Skeleton Catalyzed by Bismuth Triflate and Successive Derivatization (Dept. of Chem. Eng., NNCT) ○MASUI, Yu; SAKO, Makoto; KAMEI, Toshiyuki; SHIMADA, Toyoshi

Co

1PB-079 Hydroalkoxylation of Alkynes by Fluorinated Cobalt Porphyrin Complex (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) ○IWATSUKI, Toshiaki; USHIMARU, Richiro; NISHIMURA, Takuho; NOYORI, Ryoji; NAKA, Hiroshi

1PB-080 Hydrosilylation of alkenyl sulfides with hydrosiloxanes catalyzed by cobalt isocyanide catalysts (Grad. Sch. Eng. Sci., Kyushu Univ.) ○KAWABATA, Syouma; SANAGAWA, Atsushi; NAGASHIMA, Hideo

Cu

1PB-081[#] Cu-catalyzed Asymmetric Conjugate Addition Reaction Under the Influence of 1,2-Cyclohexanediamine-based Azolium Salt (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○IWAI, Yuuki; SAKAGUCHI, Satoshi

Ir

1PB-082[#] Asymmetric Hydrosilylation of Ketone Catalyzed by Cationic Ir Complex In the Presence of Chiral Azolium Salt (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○TERAMOTO, Hiro; SAKAGUCHI, Satoshi

1PB-083 Enantioselective Synthesis of Homoallyl Sulfones by Iridium-Catalyzed Allylation (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○MIYAKE, Shohei; TAKEUCHI, Ryo

1PB-084 Reversible Dehydrogenation and Hydrogenation of Nitrogen Heterocycles Catalyzed by Iridium Complexes (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○WADA, Tomokatsu; FUJITA, Ken-ichi

1PB-085 Iridium-Catalyzed [2+2+2] Cycloaddition of 1,8-Dialkynyl Naphthalene (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○TAKAMURA, Kaho; NISHIMI, Honoka; TAKEUCHI, Ryo

1PB-086 Efficient N-Methylation of Amines with Methanol Catalyzed by NHC Iridium Complexes (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○TSUJI, Akiko; FUJITA, Ken-ichi

1PB-087 Synthesis of Cedarmycins Using Asymmetric Tishchenko-type Reaction (ISIR, Osaka Univ.; Fac. Chem. Materials and Bioeng., Kansai Univ.) SUZUKI, Takeyuki; ○KISHI, Nobuki; ZHOU, Da-yang; ASANO, Kaori; OBORA, Yasushi

1PB-088 A new synthesis method of tricyclic iridium complexes using organostannic reagents (Grad. Sch. Sci., Josai Univ.) ○KONDOH, Kazuki; HASHIMOTO, Masashi

1PB-089 Synthesis and Characterization of Donnor-Acceptor Compounds Having π -Conjugated Enamines by Iridium-catalyzed Selective Hydrosilane Reduction of Carboxamides (Grad. Sch. Eng. Sci., Kyushu Univ.) ○KITAHARA, Ikumi; NAGASHIMA, Hideo; TAHARA, Atsushi

1PB-090[#] Exploration of iridium catalysts which achieves highly efficient hydrosilane reduction of carbonyl compounds (Grad. Sch. Eng. Sci., Kyushu Univ.) ○UNE, Yuta; TAHARA, Atsushi; YAMASAKI, Kazuyoshi; NAGASHIMA, Hideo

Mn

1PB-091 Synthesis of the phosphine-olefin ligands based on a planar-chiral transition metal complex and their application to asymmetric reactions (Grad. Sch. Sci., Osaka Pref. Univ.) ○OHYA, Naoki; TSENG, Ya-yi; TSURUSAKI, Akihiro; KAMIKAWA, Ken

Nb

1PB-092 Niobium chloride-catalyzed Synthesis of Pyrimidines via Cycloaddition of Nitriles with Alkynes (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○FUJI, Maito; OBORA, Yasushi

Ni

1PB-093[#] Decarbonylative Diarylether Synthesis by Pd and Ni Catalysis (Sch. Advanced Sci. Eng., Waseda Univ.; Grad. Sch. Sci., Nagoya Univ.) ○ISSHIKI, Ryota; TAKISE, Ryosuke; ITAMI, Kenichiro; MUTO, Kei; YAMAGUCHI, Junichiro

Pd

1PB-094 Palladium Complex Catalyzed Oxidative Amination of 1,3-Diene (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○TSUKAMOTO, Yuya; KAWAKUBO, Atsushi; OBORA, Yasushi

1PB-095 Bulk Ti-Pd based alloys catalyzed cross-coupling reactions (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○AZUMA, Ryusei; KONDO, Ryota; OBORA, Yasushi

1PB-096 Palladium-Catalyzed 1,2-Addition of Arylboronic acids to trihaloacetaldehydes (Sch. Eng., Tokyo Denki Univ.) ○SHIMIZU, Minoru; TOYODA, Hiroki; AKIYAMA, Ryo; YAMAMOTO, Tetsuya; SHINOZAKI, Hiraku

1PB-097 DMF-Protected Pd Nanoclusters Catalyzed Allylic Silylation of Allyl Chlorides using Disilane (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○ONISHI, Kaito; LIN, Xianjin; OBORA, Yasushi

1PB-098 Selective introduction of amino and silyl groups to 1,3-diene using amine and disilane catalyzed by a palladium complex (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○KAWAKUBO, Atsushi; LIN, Xianjin; OBORA, Yasushi

1PB-099 Palladium-catalyzed direct alkynylation of thiophenes (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○KATO, Hayate; TSUKADA, Naofumi

1PB-100[#] Pd-Catalyzed Decarbonylative Alkynylation of Aromatic Esters (Sch. Advanced Sci. Eng., Waseda Univ.; Grad. Sch. Sci., Nagoya Univ.) ○OKITA, Toshimasa; KUMAZAWA, Kazushi; TAKISE, Ryosuke; MUTO, Kei; ITAMI, Kenichiro; YAMAGUCHI, Junichiro

1PB-101 DMF-protected colloidal Palladium NPs: Preparation, Characterization, and Catalysis (Fac. Chem. Materials and Bioeng., Kansai Univ.; ISIR, Osaka Univ.) ○ISHIDA, Junya; SUZUKI, Takeyuki; KAWASAKI, Hideo; OBORA, Yasushi

1PB-102 Characterization of Active Species on Palladium-catalyzed Direct C-H Bond Arylation of Thienyl Thioamides and Its Applications (Fac. Eng., Gifu Univ.) ○HANAGATA, Sachiya; YAMAUCHI, Takayuki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki

1PB-103 Synthesis and Application of P,Olefin Type Chiral Ligands Using Chiral Amines as Chiral Sources. (Grad. Sch. Eng., Chiba Univ.) MINO, Takashi; ○YODA, Junpei; EBISAWA, Toshiyumi; SAITO, Hironori; TANAKA, Junya; YOSHIDA, Yasushi; SAKAMOTO, Masami

Pt

1PB-104[#] Highly efficient and selective hydrogenation of nitroarenes catalyzed by platinum nanoparticle catalysts supported by ammonium salts of hyperbranched polystyrene (Grad. Sch. Eng. Sci., Kyushu Univ.) ○YAMAMOTO, Yuma; MAEDA, Yuki; GAO, Rei; ARADA, Chaianurakkul; NAGASHIMA, Hideo

Rh

1PB-105[#] Asymmetric Hydrogenation of Simple Olefins Catalyzed by Chloride-bridged Dinuclear Rhodium(III) Complexes Bearing Chiral Diphosphine Ligands (Grad. Sch. Eng. Sci., Osaka Univ.) ○HIGASHIHARA, Kenya; SEKHAH JENA, Himanshu; HIGASHIDA, Kosuke; MASHIMA, Kazushi

Si

1PB-106 Synthesis and Characterization of Optically Active Spirosilane Involving Spirobiphenoxasilin Structure. (Sch. Sci., Kitasato Univ.) KAJIYAMA, Kazumasa; ○NODA, Seina; HORIUCHI, Saki; YUGE, Hidetaka

Sm

1PB-107[#] The Development of Novel Deprotection Method of Ester-type Protective Group Using Samarium(II) Dibromide as a One-electron Reducing

Agent (NIT, Akita College) ○OYAMADA, Shun; SUZUKI, Shoko; YOKOYAMA, Yasuo

Sn

- 1PB-108** Asymmetric Addition of Alkenyl Esters to Quinones Using Chiral Tin Alkoxide Catalysts (Grad. Sch. Sci., Chiba Univ.) ○UCHIYAMA, Chika; YAMASHITA, Yoshiaki; HORIGUCHI, Moe; YANAGISAWA, Akira
1PB-109 Addition of Alkyl Radicals to Tributylstannyl-Substituted Alkynes Initiated by Trialkylboranes and Oxygen (Grad. Sch. Sci. Eng. For Edu., Univ. of Toyama) ○AIMONO, Ataru; SUGITA, Tetsu; HORINO, Yoshikazu; ABE, Hitoshi

Sr

- 1PB-110** Development of Strontium Mediated Monoalkylation of Amide Compounds (Fac. Integrated Arts Sci., Tokushima Univ.) ○KIMURA, Shodai; KUBO, Shigeki; OHMURA, Satoshi; UENO, Masaharu; MIYOSHI, Norikazu
1PB-111 Development of Sr-mediated Hydrogenation of Aromatic Hydrocarbons (Fac. Integrated Arts and Sci., Tokushima Univ.) ○OHMURA, Satoshi; UENO, Masaharu; MIYOSHI, Norikazu

Ti

- 1PB-112[#]** Synthesis of Substituted Cyclopentadienes by The Reaction of Titanacyclopentenes and Ethyl Formate (Fac. Eng., Kanagawa Univ.) NISHIKAWA, Yoshiaki; MITA, Yuhdai; MATSUNO, Chikashi; ○OKAMOTO, Sentaro

Analytical Chemistry

Sensor

- 1PB-115** pH sensor with multichannel microfluidic paper-based analytical device using Au nanoparticle (Fac. Eng., Tokyo Univ. of Sci., Yamaguchi) ○ASANO, Hitoshi; HIMURA, Akinobu; SHIRAIISHI, Yukihide
1PB-116 Development of cationic gold nanoparticles for bacteria detection (Fac. Sci., Kochi Univ.) ○WASHIO, Kazuya; ISHIZAWA, Shun; NIKO, Yosuke; HADANO, Shingo; WATANABE, Shigeru
1PB-117 Withdrawn
1PB-118 Creation of hydrophobic fluorescent ionic liquid molecule and its application to rapid and highly sensitive anion sensing film (Sch. Eng., Osaka Pref. Univ.) ○TAKAI, Shu; MIZUTA, Tatsumi; SUEYOSHI, Kenji; ENDO, Tatsuro; HISAMOTO, Hideaki
1PB-119 Design and synthesis of fluoros solvent-soluble fluorophore and fundamental study on development of highly-selective optical ion sensor based on proton exchange (Sch. Eng., Osaka Pref. Univ.) ○ADACHI, Rina; SUEYOSHI, Kenji; ENDO, Tatsuro; HISAMOTO, Hideaki
1PB-120[#] Novel Colorimetric Sensors for Hypochlorite (Fac. Eng., Kitami Inst. of Tech.) OSHIDA, Chisato; NAKAHASHI, Hitoshi; ○KANEKIYO, Yasumasa
1PB-121[#] Colorimetric Poly-anion Sensors Utilizing Interactions at Thin Film Surface (Fac. Eng., Kitami Inst. of Tech.) ○PYEON, Seong Eun; OSHIDA, Chisato; KANEKIYO, Yasumasa
1PB-122 The construction of the unprecedented circularly polarized luminescence (CPL) system using chymotrypsine. (Fac. Sci., Nara Women's Univ.; Fac. Sci. Eng., Kindai Univ.) ○HIBINO, Kanako; TAKASHIMA, Hiroshi; HARA, Nobuyuki; IMAI, Yoshitane
1PB-123[#] Application of inverse-type gap mode Raman spectroscopy to non-metal nanoparticles (Grad. Sch. Sci., Eng., Saitama Univ.) FUTAMATA, Masayuki; ○NAKAE, Saki
1PB-124[#] Development of anion detection method using a lanthanide complex as a probe for NIR spectroscopy (Graduate School of Science, Osaka City University) SHINODA, Satoshi; ○AZUMA, Masahiro; MIYAKE, Hiroyuki
1PB-125 Simultaneous imaging of temperature and IR spectroscopy under-styrene radical polymerization in microfluidics (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SATO, Taito; RYU, Meguya; MORIKAWA, Junko
1PB-126 Anisotropic thermal diffusivity and nanoscale spectroscopic measurement of acetaminophen spherulite crystals. (Sch. Mater. & Chem. Tech., Tokyo Tech.; Nihon Thermal Consulting Co.) ○HONDA, Reo; RYU, Meguya; KOBAYASHI, Hanae; URAYAMA, Norio; MORIKAWA, Junko
1PB-127[#] Inkjet-Generated Ion-Selective Optode Particles For Calibration-Free Sensing on Paper-Based Analytical Devices (Grad. Sch. Sci. Tech., Keio Univ.) ○SODA, Yoshiaki; SHIBATA, Hiroyuki; YAMADA, Kentaro; SUZUKI, Koji; CITTERIO, Daniel

Mass Spectrometry · X-ray Analysis

- 1PB-128** Total-electron-yield soft X-ray absorption measurements of engine oil additives at the rubbed metal/engine-oil interfaces (Grad. Sch. Eng., Univ. of Hyogo) ○MURAMATSU, Yasuji; NANBU, Keita; TAKAHASHI, Naoko; OKUYAMA, Masaru; ISOMURA, Noritake; TOYAMA, Mamoru; OMOTO, Yasushi; OMORI, Toshihide; GULLIKSON, Eric
1PB-129 Synthesis and purification of Au-Ir alloy cluster (Grad. Sch. Integr.

- Sci. Eng., Shizuoka Univ.) ○MORISHITA, Yohei; MIYABAYASHI, Keiko
1PB-130[#] Real Time Monitoring of Microbial Volatile Metabolites of Solid-derived Fungi via Ambient Ionization Mass Spectrometry I. P. paneum, F. solani, A. fumigatus and A. nidulans (Grad. Sch. Human. Sci., Nara Women's Univ.) ○TANAKA, Yuri; YAMAGAKI, Tohru; SAKAKURA, Motoshi; TAKEUCHI, Takae
1PB-131[#] Anatase/Rutile TiO₂ Nanocoral Structure Films for Mass Spectrometry (Fac. Sci. Eng., Kindai Univ.) ○NAKAMURA, Yoshihiro; SOEJIMA, Tetsuro
1PB-132[#] DART ionization method of slightly soluble or insoluble compounds using liquid matrix and high resolution mass spectra (Sch. Sci., Osaka Univ.) ○ITO, Akihiro
1PB-133 Matrix-Assisted Laser Desorption/Ionization mass spectrometry of high molecular weight polyethylene glycol derivatives (DDS Research Laboratory, NOF Corporation) ○KAMIYA, Masaki; YOSHIOKA, Hiroki; YAMAMOTO, Yuji

Bioanalysis

- 1PB-134** Fluorescence Properties of Metal Ion Sensor Based on Coumarin Bearing Piperazine (Osaka Kyoiku Univ.; Osaka Municipal Technical Research Institute) ○KUBONO, Koji; KISE, Ryuma; KASHIWAGI, Yukiyasu; YOKOI, Kunihiko
1PB-135 Recognition for Phosphoric Acid of Triphenylamine Fluorescence Probe System (Osaka Kyoiku Univ.; Osaka Municipal Technical Research Institute) ○HINO, Shunsuke; KUBONO, Koji; KASHIWAGI, Yukiyasu; YOKOI, Kunihiko
1PB-136 Determination of 1,5-Anhydroglucitol in whole blood by LC/MS based on the separation on a polymeric amino column (Forensic Sci. Lab., Fukuoka Pref. Police H.Q.) ○MOHRI, Kazuko; GHODA, Akinaga; WAKIGAWA, Kengo; MOHRI, Hiroyuki; HARAGUCHI, Shingo; SHIRAKI, Ryosuke; SUNAHARA, Eri; MORITA, Junichi; HISATOMI, Taketoshi
1PB-137[#] Non-enzymatic urea/creatinine detection with paper-based microfluidic device (Grad. Sch. Sci. Tech., Keio Univ.) ○WATANABE, Daiki; ISHII, Masanori; SUZUKI, Koji; YAMADA, Kentaro; CITTERIO, Daniel
1PB-138 PDMS-anchored nanowire device for capturing extracellular vesicles in urine towards the goal of early cancer diagnosis (Sch. Eng., Nagoya Univ.) ○NAGANAWA, Tsuyoshi; YASUI, Takao; YANAGIDA, Takeshi; KAJI, Noritada; KANAI, Masaki; NAGASHIMA, Kazuki; KAWAI, Tomoji; BABA, Yoshinobu
1PB-139 Sensitivity Enhancement of Surface Plasmon Resonance Sensor based on DNA Elongation by Site Selective Surface Plasmon Heating (Fac. Life Env. Sci., Kyoto Pref. Univ.) ○NAKAMURA, Fukiko; ISHIDA, Akito
1PB-140[#] A bioluminescent probe for thiol detection (Fac. Sci. Tech., Keio Univ.) ○HEMMI, Mayu; IKEDA, Yuma; IWASAWA, Naoko; NISHIYAMA, Shigeru; CITTERIO, Daniel; SUZUKI, Koji
1PB-141 Discrimination of Cell Senescence based on Markerless and Noninvasive Secretome Analysis using Enzyme-Polymer Complex Library (The Univ. of Tokyo) ○NOMOTO, Hiroki; TOMITA, Shunsuke; YOSHIMOTO, Keitaro
1PB-142[#] Structure Activity Relationship Study on Substituent Modified Firefly Luciferin Analogues (Fac. Sci. Tech., Keio Univ.) ○MURATA, Osamu; IKEDA, Yuma; IOKA, Syuji; SAITO, Tsuyoshi; NIWA, Kazuki; IWASAWA, Naoko; CITTERIO, Daniel; NISHIYAMA, Shigeru; SUZUKI, Koji
1PB-143[#] Biomolecule simultaneous analysis by using 19F NMR (Sch. Mat. Sci., JAIST) ○QIU, Zhiyong; SAKAMOTO, Takashi; FUJIMOTO, Kenzo
1PB-144 Development of single cell separation and detection device for rapid microbiological testing (Grad. Sch. Eng., Nagoya Univ.) ○UCHIDA, Kentaro; ONOSHIMA, Daisuke; TUKAWA, Hiroshi; ISHIKAWA, Kenji; HORI, Masaru; BABA, Yoshinobu
1PB-145[#] Development of coelenterazine derivatives for hydrogen sulfide detection (Fac. Sci. Tech., Keio Univ.) ○NOMURA, Nanako; NISHIHARA, Ryo; NAKAJIMA, Takahiro; KIM, Sung Bae; SATO, Moritoshi; IWASAWA, Naoko; CITTERIO, Daniel; NISHIYAMA, Shigeru; SUZUKI, Koji
1PB-146 Development of single cell arraying device for cytoscreening of cancer stem cells (Grad. Sch. Eng., Nagoya Univ.) ○NAKAMURA, Yosuke; ONOSHIMA, Daisuke; YUKAWA, Hiroshi; TANAKA, Hiromasa; ISHIKAWA, Kenji; HORI, Masaru; BABA, Yoshinobu
1PB-147 Development of exosome extraction by glass device (Sch. Eng., Nagoya Univ.) ○AOKI, Keita; YUKAWA, Hiroshi; ONOSHIMA, Daisuke; YAMAZAKI, Shuji; KIHARA, Naoto; KOGUCHI, Ryohei; TAKAHASHI, Kumiko; ODAKA, Hidefumi; ISHIKAWA, Kenji; HORI, Masaru; BABA, Yoshinobu
1PB-148[#] Circular dichroism imaging system utilizing a direct difference approach (Hamamatsu Photonics K.K.) ○SATOZONO, Hiroshi; MOCHIZUKI, Takahiro

Separation and Detection

- 1PB-149** Development of Novel Surface Porous Polymer Core-shell Type Ion Exchange Resins and its Elution Behaviour of Carbohydrates and Rare Sugars (Kagawa Nutrition Univ.) ○MITOMO, Shun-ichi; NEGISHI,

Yukiko

- 1PB-150[#]** Holo/apo conversion 2D metal ion contaminant sweeping-urea PAGE for identification of metalloproteins (Grad. Sch. Sci., Eng., Saitama Univ.) ○ISHIKAWA, Junko; SAITO, Shingo; SHIBUKAWA, Masami
- 1PB-151** Separation of PM_{2.5} by using micro pillar (Sch. Eng., Nagoya Univ.) ○SUZUKI, Taiki; INAGAKI, Shigetaka; KAZI, Noritada; YASUI, Takao; BABA, Yoshinobu
- 1PB-152** VOC-adsorption and desorption properties of charcoals prepared from biomass (Fac. Sci., Kanagawa Univ.) ○KOMATSU, Misako; TANAKA, Yuhei; OKABE, Toshihiro; TSUGOSHI, Takahisa; NISHIMOTO, Yuko
- 1PB-153** Concentration of trace elements in the environmental water using freezing and melting process of eutectics of salt and water (Fac. Sci., Kanagawa Univ.) ○ARAI, Masaru; NISHIMOTO, Yuko
- 1PB-154[#]** Low-cost sample concentration and detection device for trace metal quantification (Fac. Sci. Tech., Keio Univ.) ○KUDO, Hiroko; WATANABE, Daiki; YAMADA, Kentaro; SUZUKI, Koji; CITTERIO, Daniel
- 1PB-155** Effects of additives on two-phase separation mixed solution of water-ionic liquid-salt system and the application to phase separation multi-phase flow (Grad. Sch. Eng., Doshisha Univ.) ○HAN, Bing; TSUKAGOSHI, Kazuhiko
- 1PB-156[#]** Kinetic analysis of the reaction of 5-pyrimidinyl boronic acid with D-sorbitol (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○WATANABE, Daisuke; IWATSUKI, Satoshi; SUGAYA, Tomoaki; ISHIHARA, Kouji
- 1PB-157[#]** Determination of stoichiometry for colorimetric metal indicators by inkjet printing (Grad. Sch. Sci. Tech., Keio Univ.) ○KUWAHARA, Kento; KIDO, Kouta; YAMADA, Kentaro; CITTERIO, Daniel; SUZUKI, Koji
- 1PB-158[#]** Real-time in-situ Simultaneous Monitoring of Dissolved Oxygen and Materials Movements at a Vicinity an Aquatic Plant by Probe Beam Deflection and Fluorescence Quenching (Fac. Eng., FIT) ○HUANG, Luowei; INOUE, Tomomi; WU, Xing-zheng

Analytical Material

- 1PB-159** Analysis of water soluble bio resist using subwavelength IR spectroscopic imaging (Sch. Mater. & Chem. Tech., Tokyo Tech.; Nihon Thermal Consulting Co.; Swinburne University of Technology; Australian Synchrotron; Deakin University) ○RYU, Meguya; KOBAYASHI, Hanae; WANG, Xuewen; BALCYTIS, Armandas; VONGSVIVUT, Pimm; MARTIN, Daniel; URAYAMA, Norio; TOBIN, Mark; LI, Jingliang; JUODKAZIS, Saulius; MORIKAWA, Junko
- 1PB-160** State Analysis of Methyl Cellulose Thermo Reversible Hydrogels containing Salt and Polyethylene Glycol (Fac. Sci., Kanagawa Univ.) ○MOCHIDA, Shigeki; ENDO, Ayumu; NISHIMOTO, Yuko
- 1PB-161** Interaction of polyethylene glycol, water and alcohol (Fac. Sci., Kanagawa Univ.) ○MATSUOKA, Fuminobu; NISHIMOTO, Yuko
- 1PB-162** The effect of salt and pH on the Bactericidal effects of electrolyzed water containing hypochlorous acid (Fac. Sci., Kanagawa Univ.) ○MIZUSHIMA, Hiroki; KUNO, Teruaki; IWASAWA, Atsuo; MATSUMURA, Yuriko; NISHIMOTO, Yuko

Materials Chemistry

Inorganic Materials

- 1PB-165[#]** Synthesis, Characterization, and Reactivity of Monodisperse Manganese Oxide Nanospheres (Fac. Sci. Eng., Kindai Univ.) ○SOEJIMA, Tetsuro; NISHIZAWA, Kazuki; ISODA, Ryosuke
- 1PB-166** Synthesis of polysilicate covered with metal oxide layer (RCPT, AIST) ○NAGASE, Takako
- 1PB-167** Copper and silver fine wiring formation technology using glyoxylic metal complex as a starting material by laser irradiation and micro contact printing (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○TAKAHASHI, Naoki; OISHI, Tomozi
- 1PB-168** Preparation and properties of organic-inorganic hybrid film containing latent pigment using styrene-vinyltriethoxysilane copolymer (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○OI, Miho; OHISHI, Tomoji
- 1PB-169[#]** Withdrawn
- 1PB-170** Withdrawn

Organic Materials

- 1PB-171[#]** Electronic property of thin films of π -conjugated ferroelectric liquid crystal exhibiting anomalous photovoltaic effect. (Fac. Eng., Kagawa Univ.) ○NAKAGAWA, Jyumpei; SEKI, Astushi; FUNAHASHI, Masahiro
- 1PB-172[#]** Insoluble Polymerized Thin Films of Perylene Tetracarboxylic Bisimide Bearing Polymerizable Cyclotetrasiloxane Rings and Three Triethylene Oxide Chains (Grad. Sch. Eng., Kagawa Univ.) ○TAKAOKA, Shunsuke; FUNAHASHI, Masahiro
- 1PB-173[#]** n-Type carbon nanotubes doped with neutral molecular dopant (Dept. of Chem. Eng., NNCT; Grad. Sch. Mat. Sci., NAIST) ○SUDO, Shunsuke; UDA, Ryoko; IKEDA, Tomohiro; NONOGUCHI, Yoshiyuki; KAWAI, Tsuyoshi
- 1PB-174[#]** Liquid crystals with rod-disc compatibility: Influence of the

methylene spacer length on the LC phase for linked with ether groups azobenzene-triphenylene derivative. (Grad. Sch. Sci. Tech., Ryukoku Univ.) ○HIROKI, Matsumoto; HIROYUKI, Nishimura; RYOTA, Minobe; KENGO, Hyodo; KINGO, Uchida; SHIMIZU, Yo

- 1PB-175** Preparation of Polyimide Particles covered with PEG Units (TRI-OSAKA) ○NAKASHI, Akiko
- 1PB-176[#]** Precursor approach toward construction of porous crystalline frameworks comprising large π -conjugated units (Grad. Sch. Mat. Sci., NAIST) YAMADA, Hiroko; SUZUKI, Mitsuharu; ○YANO, Tatsuya
- 1PB-177[#]** Development of Nanoporous Membranes Formed by Photocleavable Ionic Liquid Crystals (Grad. Sch. Eng., The Univ. of Tokyo) ○SUZUKI, Yuto; YOSHIO, Masafumi; KATO, Takashi
- 1PB-178[#]** Development of a Solution-Processable Photoprecursor of a Dithienylanthrathioophene-Based Donor Material for Organic Photovoltaics (Grad. Sch. Mat. Sci., NAIST) ○SHIMIZU, Yusuke; NAGAMI, Naoto; TERAJ, Kengo; SUZUKI, Mitsuharu; YAMADA, Hiroko
- 1PB-179[#]** Fabrication and Characterization of Thin-Film Solar cells with p-Type Semiconducting Materials Including a Phenothiazine Unit (Grad. Sch. Sci. Eng., Kindai Univ.) ○MUKAI, Yasutomo; NAKATANI, Kenji; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PB-180** Synthesis of terphenylene derivatives and changes in Aggregation-Induced-Emission property by side chains structures. (Sch. Sci. Eng., Tokyo Denki Univ.) ○NAGAHORI, Tomomi; ADACHI, Naoya
- 1PB-181[#]** Synthesis of highly planar poly(p-phenylene vinylene)s exhibiting white light photoluminescence in the colloid state (Grad. Sch. Mat. Sci., NAIST) ○TAKEUCHI, Naoya; NONOGUCHI, Yoshiyuki
- 1PB-182[#]** Stimuli-Responsive Hydrogels That Exhibit Responsiveness against Various Molecules (Fac. Eng., Kitami Inst. of Tech.) ○HOSODA, Masato; KANEKIYO, Yasumasa
- 1PB-183** Synthesis of external stimulation responsive gel materials (Fac. Eng., KAIT) ○KUDO, Motoko; SAITO, Takashi
- 1PB-184** Synthesis and metal ion recognition of noncyclic polyether compounds with π -conjugated pyrene termini (Sch. Sci. Eng., Tokyo Denki Univ.) ○MAEDA, Kazuya; ADACHI, Naoya
- 1PB-185[#]** Prepartein and physical properties of fluoroelastomers crosslinked by inclusion complex with fluorinated guest molecules and cyclodextrins (Grad. Sch. Sci., Osaka Univ.) ○NOMIMURA, Suguru; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 1PB-186[#]** Preparation and Properties of composite materials consisting of monocationic porphyrin dyes and nanocarbons (Osaka Municipal Technical Research Institute) ○TAKAO, Yuko; MORIWAKI, Kazuyuki; MIZUNO, Takumi; OHNO, Toshinobu

Composite Materials

- 1PB-187[#]** Preparation of organic-inorganic polymer hybrid films based on titania and silica (Kobe City Coll. Technol.) ○TANAKA, Hiroki; NEMOTO, Tadamasu
- 1PB-188[#]** Development of polymer composites based on phenolic resin derivatives via IPN structures (Kobe City Coll. Technol.) ○HIGUCHI, Kazuki; NEMOTO, Tadamasu
- 1PB-189** Examination of the modification reaction of the ceramic surface with hydrophobic alcohols (Grad. Sch. Eng., Doshisha Univ.) ○TAKAHASHI, Yoshimitu; MIZUTANI, Tadashi
- 1PB-190** Chemical Immobilization of Carbon Nanotubes onto Glass Surface by Using Silane Coupling Agent (Sch. Sci. Eng., CIST) ○TAKADA, Tomoya
- 1PB-191** Adsorption of flavonoids contained in a citrus fruit to mesoporous silica and its properties as an ultraviolet absorber for cosmetics (TUT) ○PIYARATTANAWAT, Wiwanthanee; SOUMA, Misato; KOGAMI, Shizuka; SHIBATA, Masashi
- 1PB-192** Synthesis of raspberry-shaped particles by utilizing polyallylamine and application for chromatography (TRI-OSAKA) ○HAYASHI, Hirokazu; NAKASHIMA, Yoichi; YOSHIOKA, Yayoi; KIMOTO, Masaki
- 1PB-193** Synthesis and characterization of highly dispersed copper-graphitic carbon nitride composite (Grad. Sch. Eng., Oita Univ.) ○KITAZAKI, Akihito; MIYAHARA, Ryo; KINUMOTO, Taro; TSUMURA, Tomoki; TOYODA, Masahiro
- 1PB-194** Crystallisation of hydroxyapatite in phosphate group containing copolymer gel as a synthetic route to tough mechanical hybrid materials (Fac. Sci. Eng., Doshisha Univ.) ○OKUDA, Kohei; MIZUTANI, Tadashi
- 1PB-195** Tuning of Inorganic Crystals Growth Using Photoreactive Polymer Matrices (Grad. Sch. Eng., The Univ. of Tokyo) ○SUZUKI, Masahiro; SAKAMOTO, Takeshi; KATO, Takashi

Carbon Materials

- 1PB-196** Humidity responsive electric conductivity of carbon-coated iron oxide microtube (Fac. Sci., Okayama Univ.) ○NISHIMURA, Ishin; GOTOH, Kazuma; GOTO, Hidenori; TAKADA, Jun; NISHIHARA, Tomohiro; KASUKABE, Takatoshi; ISHIDA, Hiroyuki
- 1PB-197** Carbonization and graphitization of PAN microparticles (Grad. Sch. Eng., Oita Univ.) ○FUKAMACHI, Kento; FUKUI, Hiroji; KINUMOTO, Taro; TSUMURA, Tomoki; TOYODA, Masahiro
- 1PB-198[#]** Density Functional Theory Calculations on Solvated States of Alkali

Ions inside Double-layer Graphite (KIT) ○ISHIKURA, Marie; NISHIMURA, Naoto; YUMURA, Takashi; WAKASUGI, Takashi

Low Dimensional Materials

- 1PB-199** One Step Synthesis of Nanoparticles from Solution by Laser-induced Plasma (Grad. Sch. Sci., Osaka City Univ.; IMRAM, Tohoku Univ.; Fac. Eng., Ehime Univ.) ○OKAMOTO, Takuya; NAKAMURA, Takahiro; ASahi, Tsuyoshi; YATSUHASHI, Tomoyuki
- 1PB-200** Preparation and characterization of dimer-type gold nanoparticles linked by a rigid π -conjugate skeleton (Tokyo Nat. Coll. of Tech.) ○IWASAKI, Kanako; MACHIDA, Shigeru
- 1PB-201[#]** Domain rigidification by addition of saturated fatty acids in biomimetic lipid membranes (Sch. Mat. Sci., JAIST) ○OOI, Katsuhito; SHIMOKAWA, Naofumi; TAKAGI, Masahiro

Ionic Liquid

- 1PB-202** Solvation of Nanoparticles in Ionic Liquids (Grad. Sch. Mat. Sci., NAIST) ○SHIGEKAWA, Kasumi; KAWAI, Tsuyoshi; NAKASHIMA, Takuya

Others

- 1PB-203** Efficient Conversion of Alkoxysilanes to Acetoxysilanes and Its Application to Surface Modification of Glass Materials (IRC3, AIST) ○YAMASHITA, Hiroshi; HATORI, Makiko; YOSHINAGA, Michiyo; IGARASHI, Masayasu; SHIMADA, Shigeru; SATO, Kazuhiko

Friday, March 17, AM

(10 : 00~11 : 30)

Coordination Chemistry, Organometallic Chemistry

- 2PA-001** Synthesis and magnetic property of multinuclear iron(III) complexes with a rotatable hexadentate Schiff base ligand (Grad. Sch. Sci. Eng., Kindai Univ.) ○MURATA, Hiroki; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-002** Magnetic and fluorescence properties, synthesis of lanthanoid complexes coordinated by iron metalloligand having a carboxy group (Fac. Sci. Eng., Kindai Univ.) ○NAKAGAWA, Keisuke; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-003** Synthesis of p-conjugated polymers with metalladithiolene complex in side chain (Grad. Sch. Fac. Sci. Technol., TUS) ○KATO, Ayumu; TSUKADA, Satoru; GUNJI, Takahiro
- 2PA-004[#]** Oxygen reduction catalyzed by a dinuclear cobalt complex bridged by bis(terpyridyl)anthraquinone (Coll. Sci., Rikkyo Univ.) ○ARIMA, Hiroaki; WADA, Tohru
- 2PA-005** Synthesis, structure and spin crossover property of a mononuclear cobalt(II) complex with 1:1 condensation product of 1-phenyl-1,2,3-triazole-4-carbaldehyde and 8-aminoquinoline (Grad. Sch. Edu., Gifu Univ.) ○HORA, Shiori; HAGIWARA, Hiroaki
- 2PA-006[#]** Syntheses and polymerization reactions of optically active cobalt(III) complexes (Grad. Sch. Integrated Arts Sci., Kochi Univ.; Grad Sch. Eng., Nagoya Inst. of Tech.) NAKASHIMA, Minami; MATSUBARA, Moe; OZAWA, Tomohiro; ○YONEMURA, Toshiaki
- 2PA-007[#]** Syntheses and structures of novel polynuclear Cu(I) complexes with the related terpyridine ligands (Fac. Sci. Eng., Kindai Univ.; RIST, Kindai Univ.) ○YABUTA, Mafuyu; MAEKAWA, Masahiko; OKUBO, Takashi; KURODA-SOWA, Takayoshi
- 2PA-008[#]** Kinetic assembly of porous coordination networks using multi-interactive ligands (Fac. Sci., TUS; Sch. Sci., Tokyo Tech.) ○ODAGAWA, Nozomu; KOJIMA, Tatsuhiro; OHTSU, Hiroyoshi; AKITSU, Takashiro; KAWANO, Masaki
- 2PA-009[#]** Syntheses and Photophysical Properties of Dicopper(I) Complexes Supported by Tetraphosphine and Diimine Ligands (Grad. Sch. Human. Sci., Nara Women's Univ.) ○MIKITA, Yumina; NAKAMAE, Kanako; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 2PA-010[#]** Coordination network formations using redox-active ligands (Sch. Sci., Tokyo Tech.) ○DEN, Taizen; KIM, Jaejun; OHTSU, Hiroyoshi; KAWANO, Masaki
- 2PA-011[#]** Oxidation of Hydroquinone with Molecular Oxygen by Dinuclear Zinc Complex (Ibaraki Nat. Coll. of Tech.) ○OHURA, Kosei; KOMATSUZAKI, Hidehito; AGOU, Tomohiro; TANAKA, Yuya; YOSHIZAWA, Michito; AKITA, Munetaka; NAKAZAWA, Jun; HIKICHI, Shiro
- 2PA-012[#]** Synthesis and Characterization of Manganese Catecholato Complexes with Various Substituents (Ibaraki Nat. Coll. of Tech.) ○AGAKE, Shin-ichiro; KAWAGUCHI, Kei; HAZAWA, Syougo; KIMOTO, Tadashi; KOMATSUZAKI, Hidehito; AGOU, Tomohiro; TANAKA, Yuya; YOSHIZAWA, Michito; AKITA, Munetaka; NAKAZAWA, Jun; HIKICHI, Shiro
- 2PA-013[#]** Synthesis of Novel Metal-Organic Frameworks Containing Anions through a Metal Ion Exchange Reaction (I₂CNER, Kyushu Univ.) KURAMOTO, Takahiro; ○SADAKIYO, Masaaki; KATO, Kenichi; YAMAUCHI, Miho
- 2PA-014[#]** Synthesis and Characterization of Novel Coordination Polymers with High Oxidation State Metals (Sch. Sci. Technol., Kwansai Gakuin Univ.) ○HAYASHIDA, Kento; TANAKA, Daisuke
- 2PA-015** Synthesis of bis(naphthyridine)ruthenium complexes: Construction of reaction systems utilizing interligand interactions (Fac. Symb. Sys. Sci., Fukushima Univ.; Inst. Env. Radioactivity, Fukushima Univ.) ○ABE, Ryoosuke; TAKASE, Tsugiko; OYAMA, Dai
- 2PA-016[#]** Synthesis and Redox Properties of a Mono-nuclear Ruthenium Complex Containing an intramolecular Hydrogen Bond (Coll. Sci., Rikkyo Univ.) ○KUMAGAI, Yugo; WADA, Tohru
- 2PA-017** Properties of Dinitrogen-Bridged Diruthenium Complexes Bearing 2,6-Pyridinedicarboxylate (Sci. Tec., Sophia Univ.) ○BENZAKI, Aya; NAGAO, Hirotaka
- 2PA-018[#]** Water oxidation catalyzed by ruthenium complexes with a bidentate ligand capable of protonation and deprotonation (Grad. Sch. Sci., Rikkyo Univ.) ○ANDO, Tomohiro; WADA, Tohru
- 2PA-019** Evaluation of optical and electronic properties of box type clusters composed of ruthenium trinuclear complex and porphyrin (Grad. Sch. Mat. Sci., Univ. of Hyogo; Grad. Sch. Eng., Kyushu Univ.) ○NAKAGAWA, Takahiro; OZAWA, Yoshiki; TOMODA, Mituru; ONO, Toshikazu; HISAEDA, Yoshio; ABE, Masaaki
- 2PA-020[#]** Synthesis and Redox Property of a Dinuclear Ruthenium Complex with Biimidazole (Coll. Sci., Rikkyo Univ.) ○KOIWA, Akane; WADA, Tohru
- 2PA-021[#]** Synthesis and electrochemical properties of ruthenium complexes containing non-innocent indigo derivatives (Fac. Sci. Eng., Chuo Univ.) ○ARITANI, Kazushi; OZAWA, Hiroaki; LAHIRI, Kumar Goutam; HAGA, Masa-aki
- 2PA-022** Synthesis and luminescence and redox characterizations of new ruthenium(II) complexes coordinated by diarylaminothiazole derivatives (Sch. Sci., Univ. of Hyogo; Fac. Eng., Gifu Univ.) ○NAKAMURA, Ryota; ABE, Masaaki; OZAWA, Yoshiki; YAMAGUCHI, Kirara; MURAI, Toshiaki
- 2PA-023[#]** Synthesis of bis(bipyridylphenyl)anthracene (bbpan) as a novel bridging ligand and redox properties of dinuclear ruthenium complex bridged by bbpan (Coll. Sci., Rikkyo Univ.) ○OJIMA, Takumi; WADA, Tohru
- 2PA-024[#]** Synthesis and properties of sulfur-bridged incomplete cubane-type clusters with a tris(pyrazolyl)methanesulfonate ligand (Research Inst. of natu. Sci., Okayama Univ. of Sci.) ○YU, Mitsuoka; HARUO, Akashi
- 2PA-025[#]** Synthesis and Characterization of Iridium Complexes Bearing Dibenzoylethane Derivatives (Kobe City Coll. Technol.) ○NARA, Takahiro; OHFUCHI, Shinichi
- 2PA-026[#]** Synthesis and Properties of meso-phenyl-substituted N-Fused Porphyrin Iridium(III) Hydride Complexes (Fac. Eng., Kyushu Univ.) ○NOZOE, Kosuke; MATSUO, Hideaki; ISHIDA, Masatoshi; TOGANOH, Motoki; FURUTA, Hiroyuki
- 2PA-027** The synthesis of iridium complexes with long alkyl chains as potential luminescent liquid crystals (Department of Chemistry, Kitasato University) ○WATANABE, Hideyo; SUZUKI, Kota; YOSHIDA, Jun; YUGE, Hidetaka
- 2PA-028[#]** Syntheses, structures and properties of heterometallic coordination polymers bridged by Ir(III) hydride metalloligands (Fac. Sci. Eng., Kindai Univ.; RIST, Kindai Univ.) ○ODA, Shoki; MAEKAWA, Masahiko; OKUBO, Takashi; KURODA-SOWA, Takayoshi
- 2PA-029[#]** Heterometallic Trinuclear Complexes Composed of Three Kinds of Metal-Ligand Units (Grad. Sch. Sci., Osaka City Univ.; Grad Sch. Eng., Nagoya Inst. of Tech.) ○NISHIOKA, Takanori; MONJU, Ryoosuke; MAEDA, Yuri
- 2PA-030[#]** Synthesis and Photophysical Properties of N-Confused Calix[4]phyrin Organometallic Complexes (Grad. Sch. Eng., Kyushu Univ.) ○PUSHPANANDAN, Poornanth; HIROSAWA, Ryugi; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 2PA-031** Syntheses of cyclometalated platinum(II) complexes [Pt(C^N)(aac)] for the determination of saccharides: correlation between emission properties and the substituent of the ligands (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○FUKUDA, Keito; SUGAYA, Tomoaki; IWATSUKI, Satoshi; INAMO, Masahiko; TAKAGI, Hideo; ODANI, Akira; ISHIHARA, Koji
- 2PA-032** Preparation of radical anion species by Electro-crystallization of N-Heteroacene derivatives having Crown-Ether (Fac. Eng., Kagawa Univ.) ○TAKAHASHI, Hinako; ISODA, Kyosuke
- 2PA-033[#]** Structural comparison of charge-transfer salts composed of alkyl viologen and iron complex (Coll. Sci., Rikkyo Univ.; Research center for smart molecules, Rikkyo Univ.) ○TANAKA, Rikako; MATSUSHITA, Nobuyuki
- 2PA-034[#]** Development of composite materials incorporating functional complexes and polyoxometalates (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○KURAMOCHI, Satoshi; SHIGA, Takuya; OSHIO, Hiroki
- 2PA-035[#]** Structures and physical properties of spin-crossover complexes containing nucleobase derivatives (Grad. Sch. Sci., Tohoku Univ.) ○ICHIKAWA, Yuki; KAGESAWA, Koichi; YAMASHITA, Masahiro
- 2PA-036** Synthesis, Structure, and Reactivity of the Novel Cobalt Complex with a Symmetrical Pyridinediols Ligand (Fac. Eng., Aichi Inst. of Tech.) ○YUSHITA, Hiyou; KAJITA, Yuji

- 2PA-037** Structure of Bisnickel Helicates of Hexapyrroles (Grad. Sch. Sci., Kobe Univ.; Sch. Pharm. Sci., Inner Mongolia Med. Univ.) ○Eerdun; OKAYAMA, Takuya; NGUYEN, Thi Hien Thuy; SETSUNE, Jun-ichiro
- 2PA-038** Structure of emissive Cu(I) multi-nuclear complexes bridged by tetradentate ligand containing long alkyl chains (Sch. Sci., Tokyo Tech.) ○TAKEDA, Hiroyuki; ISHITANI, Osamu
- 2PA-039** Synthesis, Molecular Structures and Antimicrobial Activities of Dinuclear Complexes of Gold(I) and Copper(I) with *N*-Heterocyclic Carbene Ligand (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○MOROZUMI, Soichiro; HASEGAWA, Misa; SAKAMOTO, Ryosuke; CHIKARAIISHI, Noriko; NOMIYA, Kenji
- 2PA-040** Chiral and Achiral Networks of Cyanido-bridged Mn-Nb Bimetal Assemblies Containing 4-Halopyridine Ligands (Grad. Sch. Sci., The Univ. of Tokyo) ○OHNO, Takuro; CHORAZY, Szymon; IMOTO, Kenta; OHKOSHI, Shin-ichi
- 2PA-041** Crystal Structure and Counter ion Effect on Substitution Reaction of Bis(2,2'-bipyridyl)ruthenium(II) Complex bearing a 2-Picolinamido (Dept. Chem., Konan Univ.) ○TOYAMA, Mari; ENDO, Mika; NAGAO, Noriharu
- 2PA-042** Luminescent properties and crystalline polymorphism of charge-transfer salts composed of an organic acceptor including the hydroxyl group and tetracyanidopalladates(II). (Grad. Sch. Sci., Rikkyo Univ.) ○SHINAGAWA, Yusaku; MATSUSHITA, Nobuyuki
- 2PA-043** Preparation of M_3L_2 coordination capsule from phosphine oxide ligand having 3-pyridyl group, and extension of the capsule size (Konan Univ.) ○MATSUI, Yoshimichi; KATAGIRI, Kosuke
- 2PA-044** Preparation of co-crystals of optically Active $M(O-N)_2$ ($M = Pt, Pd, Ni$) complexes and their structure analysis (Coll. Industrial Tech., Nihon Univ.) ○LEE, Kousei; TSUNO, Takashi
- 2PA-045** Protonation of Bridging Dinitrogen in Divanadium Complexes with Triamidoamine Ligands (Fac. Eng., Aichi Inst. of Tech.) ○TSUZUKI, Kazuki; KAJITA, Yuji
- 2PA-046** Photocatalytic CO_2 Reduction using Mn(I) Complexes with a Function of CO_2 Capture as a Catalyst (Sch. Sci., Tokyo Tech.) ○KOIZUMI, Hiroki; TAKEDA, Hiroyuki
- 2PA-047** Photochemical Reaction of Tris-*o*-Phenylenediamine Iron(II) Complex under CO_2 Atmosphere (Fac. Sci. Eng., Chuo Univ.) ○UCHIJIYO, Daiki; MATSUMOTO, Takeshi; CHANG, Ho-chol
- 2PA-048** Visible Light-Induced Hydrogen Production Using Sulfur-Containing Schiff Base Nickel(II) Complexes (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○INOUE, Satoshi; YAN, Yinnan; KAWAMOTO, Tatsuya
- 2PA-049** Catalytic Reactivity of Tris(oxazolynlmethyl)amine Nickel Complexes for Alkane Oxidation Reaction with *m*CPBA Oxidant (Fac. Eng., Kanagawa Univ.) ○NAKAZAWA, Jun; TERAO, Ikumi; HORII, Sena; HIKICHI, Shiro
- 2PA-050** Study of sensitizers in photochemical oxygen generation using ruthenium complexes as catalysts (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KOKATSU, Shunta; IKUTA, Naoya; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 2PA-051** Ligand Exchange Reaction of *N*-Fused Porphyrin Ruthenium Complex (Grad. Sch. Eng., Kyushu Univ.) ○MATSUO, Hideaki; TOGANOH, Motoki; FURUTA, Hiroyuki
- 2PA-052** DFT study of the hydrogen molecule oxidation catalyzed by thiolate-bridged dinuclear ruthenium complexes (Hoshi Univ.; Grad. Sch. Eng., The Univ. of Tokyo) ○KIKUCHI, Shoma; SAKATA, Ken; YUKI, Masahiro; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 2PA-053** Electrochemical CO_2 reduction using binuclear metal complexes with an electron pool unit (Sch. Sci., Tokyo Tech.) ○YATSU, Taiki; NISHIKAWA, Tetsuya; TAMAKI, Yusuke; KUMAGAI, Hiromu; ISHITANI, Osamu
- 2PA-054** Proton reduction catalyzed by a platinum complex with 1,4,7-triazacyclononane (Grad. Sch. Sci., Rikkyo Univ.) ○TANAKA, Eisuke; WADA, Tohru
- 2PA-055** Evaluation of nucleophilicity of bridging sulfido ligands in heterometallic trinuclear complexes using cyclic voltammetry (Fac. Eng. Nagoya Inst. of Tech.; Fac. Sci., Osaka City Univ.) ○MAEDA, Yuri; ISHIDA, Yuuki; YASUI, Takashi; TAKADA, Kazutake; NISHIOKA, Takanori
- 2PA-056** Chiral Oligomerization of Phthalocyanine using Chiral Aggregate Films as Precursors (IIS, The Univ. of Tokyo) ○KUROHA, Mizuki; ISHII, Kazuyuki
- 2PA-057** Dielectric properties of binuclear mixed-valence vanadium complex, $K_3[V_2O_3(nda)_2] \cdot 3H_2O$ (Fac. Sci., Hiroshima Univ.) ○HAGEO, Kazuki; MARUYAMA, Rio; KATO, Chisato; MARYUNINA, Kseniya; INOUE, Katsuya; TSUNASHIMA, Ryo; NISHIHARA, Sadafumi
- 2PA-058** Spin state of iron (II) assembled complex using 1,4-bis(4-pyridyl)benzene type bridging ligand with alkyl group (Grad. Sch. Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) ○YOSHINAMI, Keisuke; NAKASHIMA, Satoru
- 2PA-059** Withdrawn
- 2PA-060** Theoretical Studies on Performance of Quantum-dot Cellular Automata made of Mixed-valence Biferrocenium Complexes (Grad. Sch., Kogakuin Univ.) ○ODATE, Fumiya; TOKUNAGA, Ken; TAHARA, Keishiro; SATO, Mitsunobu
- 2PA-061** Spin-crossover behavior of iron (II) assembled complexes using 9,10-bis(4-pyridyl)anthracene ligand (Fac. Sci., Hiroshima Univ.) ○IWAI, Saki; YOSHINAMI, Keisuke; NAKASHIMA, Satoru
- 2PA-062** The influence of fluorine substitution position on the structure and magnetic properties in $[Fe(qsal^{nF})_2]$ complexes (Fac. Sci. Eng., Kindai Univ.) ○FUKUMASU, Tomohiro; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-063** Particle Size Control of Flexible Metal Organic Framework DUT-8 (Ni) for Controlling Adsorption Property (Grad. Math. and Nat. Sci., TU Dresden; Grad. Sch. Sci., Kyushu Univ.) ○MIURA, Hiroki; BON, Volodymyr; OHBA, Masaaki; KASKEL, Stefan
- 2PA-064** Mesophase Control and Electrochemical Property of Redox-active Ionic Metallomesogens Bearing Alkylammonium Cations (Grad. Sch. Sci. Eng., Chuo Univ.) ○NAKAMURA, Yuichi; SAKAZUME, Yasutaka; MATSUMOTO, Takeshi; CHANG, Ho-chol
- 2PA-065** thermophysical property analysis of salen complex including cyclohexane in *N'*-*N'* bridge (Grad. Sch. Chem. Sci. Technol., TUS) ○NISHITSUKA, Shigeaki; NOMOTO, Kuniharu; MIYAMURA, Kazuo
- 2PA-066** Temperature dependence of lifetimes in Cu(I) complexes bearing phenanthroline and diphosphine ligands (Grad. Sch. Sci. Tech., Gunma Univ.; Fac. Sci. and Technol., Seikei Univ.) ○YASUDA, Yoshifumi; ASANO, Motoko; KAKIZOE, Daichi; NISHIKAWA, Michihiro; TSUBOMURA, Taro
- 2PA-067** Improvement of Cu(I) complexes as redox photosensitizers (Sch. Sci., Tokyo Tech.) ○MONMA, Yu; TAKEDA, Hiroyuki; ISHITANI, Osamu
- 2PA-068** Preparation and properties of solvatochromic complexes with polycyano anions (Grad. Sch. Sci., Kobe Univ.) ○LAN, Xue; MOCHIDA, Tomoyuki
- 2PA-069** Analysis of gas adsorption induced phase transition of $[Cu_2(4-X-benzoate)_2(\text{diazabicyclooctane})_n]$ ($X = Me, F, Cl, Br, I$) (Sch. Sci., Hokkaido Univ.) ○AKAHOSHI, Shuhei; SANADA, Kosuke; MARUTA, Goro; KAGEYAMA, Yoshiyuki; TAKEDA, Sadamu
- 2PA-070** Gas selectivity of Cu(II) naphthoate-Cu(II) tetra pyridyl porphine (Toyota Central R&D Labs., Inc.) ○OHMURA, Tetsushi; SETOYAMA, Norihiko; MUKAE, Yusuke; USUKI, Arimitsu
- 2PA-071** Development of Inorganic-Organic Hybrid Solar Cells including p-type Semiconducting Copper Halides (Grad. Sch. Sci. Eng., Kindai Univ.) ○HORII, Toshiya; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-072** Ultrafast fluorescence spectroscopy for heteroleptic Cu(I) complexes with diimine and phosphine ligands (Grad. Sch. Sci. Eng. For Edu., Univ. of Toyama; Sch. Sci., Tokyo Tech.) ○SANGA, Masashi; IWAMURA, Munetaka; NOZAKI, Koichi; MONMA, Yu; TAKEDA, Hiroyuki; ISHITANI, Osamu
- 2PA-073** Prolongation of near IR emission of a naphthalene-linked copper(II) porphyrin-zinc(II)porphyrin dimer by reservoir mechanism (Grad. Sch. Sci. Tech., Gunma Univ.; Grad. Sch. Sci. Eng., TMU) ○MORITA, Takatsugu; OGAWA, Tomohiro; YASUDA, Yoshihumi; ASANO, Motoko
- 2PA-074** Fabrication and Characterization of Bulk Hetero Junction Type Solar Cells with Soluble Phthalocyanine Derivatives (Grad. Sch. Sci. Eng., Kindai Univ.) ○NAKAMURA, Kana; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-075** Syntheses and magnetic properties of new cyanide-bridged three-dimensional $M^{II}-[Nb^{IV}(CN)_6]^-$ based bimetal assemblies ($M^{II} = Mn^{II}, Co^{II}, Ni^{II}$) (Grad. Sch. Sci., The Univ. of Tokyo) ○KAWABATA, Shintaro; OHNO, Takuro; IMOTO, Kenta; OHKOSHI, Shin-ichi
- 2PA-076** Electrochemical synthesis and photo-induced magnetization of a cyanide-bridged Cu-Mo bimetal assembly (Grad. Sch. Sci., The Univ. of Tokyo) ○SHIRAIISHI, Kouki; UMETA, Yoshikazu; MIYAMOTO, Yasuto; IMOTO, Kenta; TOKORO, Hiroki; OHKOSHI, Shin-ichi
- 2PA-077** The synthesis of ruthenium complexes with tetrazolate ligands and their photochemical and electrochemical properties (Coll. Sci. Tech., Nihon Univ.) ○ZHANG, Lu; OTSUKI, Joe; WU, Guohua; SUGAWA, Kosuke
- 2PA-078** Studies on proton responsive Ru-complex with a triphenylamine moiety (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○FUKUDA, Kurumi; SHIGA, Takuya; NIHEI, Masayuki; NEWTON, Graham N; OSHIO, Hiroki
- 2PA-079** Electrochemical properties in the heterolayer film composed of Ruthenium complexes and Prussian blue nano crystals: Effect of connected Ru complex in the hetero junction (Fac. Sci. Eng., Chuo Univ.) ○IDE, Mitsutoshi; SATOU, Hiroaki; OZAWA, Hiroaki; HAGA, Masa-aki
- 2PA-080** Photochemical Behavior of Cationic Iridium Complexes with Ligands of Coumarin 6 in Vesicle Membranes (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TAKIZAWA, Shin-ya; IKUTA, Naoya; MURATA, Shigeru
- 2PA-081** Photochemical properties of iridium complexes bearing Coumarin 6 and tridentate ligands (The Univ. of Tokyo) ○SEBATA, Shinogou; TAKIZAWA, Shin-ya
- 2PA-082** Photochemical CO_2 reduction in vesicles sensitized by tris-cyclometalated iridium complexes having various substituents (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KOYAMA, Kei; IKUTA, Naoya; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 2PA-083** Structure and Solid-State Emission of Vaulted *N*-Phenyl trans-Bis(cyclodimino)platinum(II) Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○IWATA, Shotaro; NAOTA, Takeshi
- 2PA-084** Synthesis and properties of a new platinum(II) complex with

- ambipolar redox activity (Fac. Sci. Eng., Chuo Univ.) OKANNO, Ayumi; SAKAZUME, Yasutaka; MATSUMOTO, Takeshi; CHANG, Ho-chol
- 2PA-085[#]** Photophysical Property of Heteroleptic Platinum(II) Complexes Bearing Iminophenyl and Iminopyrrole Ligands (Grad. Sch. Eng. Sci., Osaka Univ.) OHAMIMDAL, Muhamad Alif; SUZUKI, Shuichi; NAOTA, Takeshi
- 2PA-086** Tetrahedral Gold(I) Complexes Responded to External Stimuli (Fac. Eng., NIT; Lab. Chem. Life Sci., Tokyo Tech.) OYAMAYOSHI, Hiroto; OSAWA, Masahisa; TANAKA, Yuya; AKITA, Munetaka
- 2PA-087** Structure and Polarity Conversion of Cyano-bridged Coordination Polymers by Guest Adsorption and Desorption (Fac. Sci., Kyushu Univ.) OFUKUTOMI, Kosei; TANAKA, Sakuya; MISHIMA, Akio; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 2PA-088** Syntheses and SMM behaviors of linear Zn(II)-Ln(III)-Zn(II) trinuclear complexes which possess threefold symmetry (Ln = Ce, Pr, Nd) (Fac. Sci., Nara Women's Univ.) OSAKATA, Shiomii; MASUDA, Yuka; KAYAHARA, Saori; IRIE, Natsumi; KATAOKA, Yumiko; KAJIWARA, Takashi
- 2PA-089** Effects of diamagnetic metal ions on slow magnetization relaxation of Tb(III) ion in linear TM(II)-Ln(III)-TM(II) tri-nuclear complexes (Fac. Sci., Nara Women's Univ.) OMASUDA, Yuka; SAKATA, Shiomii; KAYAHARA, Saori; IRIE, Natsumi; KATAOKA, Yumiko; KAJIWARA, Takashi
- 2PA-090** Crystal structure, magnetic and emission properties of tetranuclear rare earth complexes with a chiral ligand based on (1S, 2S)-(+)-1,2-cyclohexane-diamine (Grad. Sch. Sci. Eng., Kindai Univ.) OYOSHIHARA, Junji; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-091** Synthesis of Lanthanide Complexes having Carbazole Ring and Their Emission Properties (Fac. Sci., TUS; PRESTO, JST) OHAYAKAWA, Kanako; YUASA, Junpei
- 2PA-092[#]** Proton control of the magnetic properties of an annulene double-decker (Grad. Sch. Sci., Tohoku Univ.; CREST, AMED) OCOSQUER, Goulven; LIANG, Zhifur; DAMJANOVIC, Marko; KAMILA, Mritunjoy; ENDERS, Markus; YAMASHITA, Masahiro
- 2PA-093** Development of amphiphilic europium complexes with naphthoic acid (Coll. Sci. Eng., Aoyama Gakuin Univ.) OYOSHIHARA, Koushi; ISHII, Ayumi; YAMANAKA, Masamichi; HASEGAWA, Miki
- 2PA-094** Synthesis of Binuclear Chiral Lanthanide Complexes Having Two Diketone Ligands and Their Circularly Polarized Luminescence (Fac. Sci., TUS; PRESTO, JST) OSATO, Miki; YUASA, Junpei
- 2PA-095** Upconversion luminescence of Tm/Yb oxide nanoparticles coordinated with anthraquinone dyes (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) OKOMABA, Miyu; ISHII, Ayumi; HASEGAWA, Miki
- 2PA-096** Luminescent Behavior Change Depending on Intermetal Distance in Tetranuclear Lanthanide Complexes (Fac. Sci., Kyushu Univ.) OTAKEDA, Yoriko; TOGOU, Tatsuo; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 2PA-097** Systematic Synthesis and Evaluation of Chiral Europium(III) Complexes Having Bis(oxazolonyl) Pyridine Ligand and Their Circularly Polarized Luminescence (Fac. Sci., TUS; PRESTO, JST) OKAYASU, Yoshinori; YUASA, Junpei
- 2PA-098** Luminescence properties of the europium complex on the self-assembled monolayers (Coll. Sci. Eng., Aoyama Gakuin Univ.) OIWAI, Masaaki; ISHII, Ayumi; HASEGAWA, Miki
- 2PA-099** Emission Properties of Lanthanide Complexes Having Diketone Ligands Under Oxidizing Conditions (Fac. Sci., TUS; PRESTO, JST) OKAITO, Ayaka; YUASA, Junpei
- 2PA-100** New binaphthyl Schiff base complexes with carboxyl group for Dye-Sensitized-Solar-Cell(DSSC) (TUS) OMACHIDA, Yosuke; AKITSU, Takashiro; TSATURYAN, Arshak; SHCHERBAKOV, Igor; ODAGAWA, Nozomu; OHTSU, Hiroyoshi; KAWANO, Masaki
- 2PA-101** Synthesis of Albumin Oligomers using Hydrophobic Phthalocyanines (IIS, The Univ. of Tokyo) OMURATA, Kosuke; ISHII, Kazuyuki
- 2PA-102[#]** Density Functional Theory calculations of alkane C-H bond activation by iron-oxo complexes bound by nitrogen-containing ligands (KIT) OMATSUI, Misaki; YUMURA, Takashi; WAKASUGI, Takashi; HITOMI, Yutaka; SHIOTA, Yoshihito; YOSHIZAWA, Kazunari
- 2PA-103** The conversion reaction of superoxide into molecular oxygen using nickel(III) complex (Grad. Sch. Fac. Sci., Kanagawa Univ.) OHONMA, Kenta; YAN, Yin-nan; KAWAMOTO, Tatsuya
- 2PA-104** Syntheses of far-red absorption porphyrins having carboxyl group and their PDT activities (Fac. Chem. Materials and Bioeng., Kansai Univ.) ONAKAGAWA, Tomoyuki; IWASAKI, Yuuta; HIGASHINO, Ryuu; NAKAI, Misaki; YANO, Shigenobu; NAKABAYASHI, Yasuo
- 2PA-105** Effect of macrocyclic amine donors on oxidative cleavage of DNA catalyzed by dimetal complexes (Fac. Sci. Eng., Doshisha Univ.) OTOTTORI, Tomoki; FUKUI, Katuki; KADOYA, Yuki; HITOMI, Yutaka; KODERA, Masahito
- 2PA-106** Cytotoxicity of Copper(II)Complexes Containing Dithiocarbamates and Polypyridine (Fac. Chem. Materials and Bioeng., Kansai Univ.) OFUSHIDA, Masaya; NAKAI, Misaki; NAKABAYASHI, Yasuo
- 2PA-107** Synthesis of Sulfite Oxidase Model Complex Soluble in Nonpolar Solvents (Grad. Sch. Sci., Osaka Univ.) OKAGA, Toshihisa; OKAMURA, Taka-aki; ONITSUKA, Kiyotaka
- 2PA-108[#]** Synthesis of a Hoveyda-Grubbs catalyst for introducing into protein with cysteine residues (Grad. Sch. Mat. Sci., NAIST; Grad. Sch. Sci., Osaka Univ.) OWAKABAYASHI, Kazumo; MATSUO, Takashi; HIROTA, Syun; YAMAGUCHI, Hiroyasu
- 2PA-109** Anticancer Activity of Ruthenium(II) Complexes with Dithiocarbamate and 2,2'-Bipyridine Derivatives (Fac. Chem. Materials and Bioeng., Kansai Univ.) OIKEDA, Mayuko; NAKAI, Misaki; NAKABAYASHI, Yasuo
- 2PA-110** Syntheses of palladium(II) and platinum(II) complexes having 2,2':6'' :2'' -terpyridine derivative and their antitumor activities (Fac. Chem. Materials and Bioeng., Kansai Univ.) OASANO, Kyohei; NAKAI, Misaki; YANO, Shigenobu; NAKABAYASHI, Yasuo
- 2PA-111** Synthesis of pentamethyldisilanyl-substituted starlike molecule with triazine core and its application to dye-sensitized solar cells (Dept. Life Sci., Kurashiki Univ. of Sci. and the Arts) ONOGUCHI, Mao; NAKA, Akinobu
- 2PA-112** Synthesis and Photophysical Properties of Disilene Compounds with Thienyl Groups (Fac. Sci. Eng., Kindai Univ.) ONISHIMURA, Shogo; HAYAKAWA, Naoki; MATSUO, Tsukasa
- 2PA-113** Synthesis and properties of subphthalocyanines and dinuclear subphthalocyanines introduced with various substituents on their peripheral ring (Grad. Sch. Fac. Sci. Eng., Shimane Univ.; ADRES, Ehime Univ.; Fac. Pharm. Sci., Univ. of Toyama; Fac. Med., Shimane Univ.; Shimane Institute for Industrial Technology) OSONOYAMA, Hayato; FUJISHIRO, Rei; MORI, Shigeki; SUGIMORI, Tamotsu; NAGAI, Atsushi; YOSHINO, Katsumi; IKEUE, Takahisa
- 2PA-114** Synthesis of a Dichlorosilole Bearing Bulky Substituents (Grad. Sch. Sci., Eng., Saitama Univ.) OKANO, Ipepe; FURUKAWA, Shunsuke; SAITO, Masaichi
- 2PA-115[#]** Synthesis of Hexasilacyclohexane Derivatives (ICR, Kyoto Univ.) OOMATSU, Yamato; MIZUHATA, Yoshiyuki; SASAMORI, Takahiro; TOKITOH, Norihiro
- 2PA-116** Platinum-catalyzed reactions of 2,3-bis(diethylsilyl)thiophene with alkenes (Dept. Life Sci., Kurashiki Univ. of Sci. and the Arts) OMIHARA, Takashi; NAKA, Akinobu
- 2PA-117[#]** Theoretical Examination on Absorption of Hydrogen Molecules to Titanocene Complex (FIFC, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.; Toyota Motor Corp.; Toyota Central R&D Labs., Inc.; Sch. Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) OTANAKA, Kazuyoshi; FUENO, Hiroyuki; ISHIBASHI, Kazunobu; SUTO, Hiroyuki; MATSUMOTO, Mitsuru; HASEGAWA, Naoki; KAWAGUCHI, Hiroyuki; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi
- 2PA-118** Reaction of a Cationic Zirconium Phenoxide-Phosphine Complex with Dihydrogen (Sch. Sci., Tokyo Tech.; Toyota Motor Corp.; Toyota Central R&D Labs., Inc.; Sch. Mater. & Chem. Tech., Tokyo Tech.; FIFC, Kyoto Univ.) ONAKANISHI, Yusuke; ISHIDA, Yutaka; KAWAGUCHI, Hiroyuki; ISHIBASHI, Kazunobu; SUDO, Hiroyuki; MATSUMOTO, Mitsuru; HASEGAWA, Naoki; TOMITA, Ikuyoshi; NISHIYAMA, Hiroki; TANAKA, Kazuyoshi
- 2PA-119** Studies on Hydrogen Absorption Behavior of Organometallic Polymers Possessing Phosphametalocene Units (Sch. Mater. & Chem. Tech., Tokyo Tech.; Toyota Motor Corp.; Toyota Central R&D Labs., Inc.; Sch. Sci., Tokyo Tech.; FIFC, Kyoto Univ.) ONISHIYAMA, Hiroki; ISHIBASHI, Kazunobu; SUTO, Hiroyuki; MATSUMOTO, Mitsuru; HASEGAWA, Naoki; KAWAGUCHI, Hiroyuki; TANAKA, Kazuyoshi; INAGI, Shinsuke; TOMITA, Ikuyoshi
- 2PA-120** Synthesis of Titanium Pyrrolylaluminate Complexes and Their Reactivity to N-trimethylsilylaniline derivatives (Grad. Sch. Eng. Sci., Osaka Univ.) OHATO, Wataru; TSURUGI, Hayato; MASHIMA, Kazushi
- 2PA-121** DFT Study of Mn-Catalyzed C-H Bond Activation Reaction (Hoshi Univ.; Grad. Sch. Sci. Eng., TMU; Grad. Sch. Pharm., The Univ. of Tokyo; CREST, JST) OIJIMA, Chihiro; SAKATA, Ken; SUEKI, Shunsuke; KUNINOBU, Yoichiro
- 2PA-122[#]** Carbon-Sulfur bond cleavage by an iron complex (Fac. Edu., Univ. of Ryukyus) OFUKUMOTO, Kozo; OSHIRO, Sayaka; TERUYA, Toshiaki; NAKAZAWA, Hiroshi
- 2PA-123[#]** Electronic Structure and Property of an Anionic Ferrocene Analog Bearing Stannole Ligands (Grad. Sch. Sci., Eng., Saitama Univ.; MCES, Tokyo Tech.) OMATSUMAGA, Naoki; FURUKAWA, Shunsuke; TADA, Tomofumi; SAITO, Masaichi
- 2PA-124** Hydrosilylation reaction of diene catalyzed by an iron complex with an imonobipyridine ligand (Grad. Sch. Sci., Osaka City Univ.) OTERATANI, Sayaka; TOYA, Yuki; HAYASAKA, Kazumasa; NAKAZAWA, Hiroshi
- 2PA-125** Reactions of organozirconium complexes with diazoalkanes (Sci. Tec., Sophia Univ.) OMOTOHASHI, Hirotaka; ARIGA, Yuki
- 2PA-126** Development of hybrid photocathode consisting of semiconductor immobilized with metal complex polymer photocatalyst for CO₂ reduction (Sch. Sci., Tokyo Tech.) OKAMATA, Ryutarou; KUMAGAI, Hiromu; YAMAZAKI, Yasuomi; SAHARA, Go; ISHITANI, Osamu
- 2PA-127** Hydrogenation of tri- and tetrasubstituted alkenes catalyzed by a disilaryltheneacyclic complex bearing isocyanide ligands (Grad. Sch. Eng. Sci., Kyushu Univ.) SUNADA, Yusuke; OGUSHI, Hazime; YAMAMOTO, Taiji; OUTO, Shoko; TAHARA, Atsushi; NAGASHIMA, Hideo
- 2PA-128[#]** Theoretical Study on Adjacent Agostic Interactions in Ruthenium Complexes (Grad. Sch. Of Humanities and Sci., Ochanomizu Univ.) OYAMANAKA, Satomi; TAKANO, Keiko

- 2PA-129** Investigation of Photocatalytic Activity Using Ru-Re Dinuclear complexes immobilized on a Solid Surface (Sch. Sci., Tokyo Tech.)
○SAITO, Daiki; YAMAZAKI, Yasuomi; ISHITANI, Osamu
- 2PA-130[#]** A Theoretical Study of the Catalytic Hydrogenation of Alkenes by Disilathenacyclic Complexes (Grad. Sch. Eng. Sci., Kyushu Univ.)
○HOSHI, Konoka; TAHARA, Atsushi; SUNADA, Yusuke; TANAKA, Hiromasa; SHIOTA, Yoshihito; YOSHIZAWA, Kazunari; NAGASHIMA, Hideo
- 2PA-131** Synthesis of Alkenylphosphine Palladium Complexes and Their Reactivity toward Oxygen Nucleophiles (Fac. Sci., Nara Women's Univ.)
○SATO, Ruriko; KATAOKA, Yasutaka; URA, Yasuyuki
- 2PA-132** Hydrazone-Palladium Catalyzed Synthesis of 2,3-disubstituted Benzofuran Derivatives with *o*-Alkynyl Phenol and Allylic Acetate (Grad. Sch. Eng., Chiba Univ.) MINO, Takashi; ○ISHIKAWA, Eri; WATANABE, Kohei; YOSHIDA, Yasushi; SAKAMOTO, Masami
- 2PA-133[#]** Dimerization of Silole Analogues Catalyzed by Platinum Complex with Organic Silicon Ligand (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech.) ○HAGIO, Toshihiro; IWASE, Shunsuke; TANABE, Makoto; OSAKADA, Kohtaro
- 2PA-134** Synthesis of Dinuclear Palladium Complexes Supported by Chelate-Bridging Ligands Containing N-Heterocyclic Carbenes (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○GOTO, Tomohiro; TSUKADA, Naofumi
- 2PA-135** Observation of the Intermediates in the Oxygenation of a Benzyl Ligand in SNS-Pd Complexes (Fac. Sci., Nara Women's Univ.)
○HAYASHI, Miki; KATAOKA, Yasutaka; URA, Yasuyuki
- 2PA-136** Development of One-pot Synthesis of Indole Derivatives Using Palladium (0) Catalyst (Fac. of Sci., Okayama Univ. of Sci.)
○KANAGUCHI, Mamoru; YAMADA, Haruo
- 2PA-137** Study on the reactivity of oxocyclobutenyl complex⁻ Reaction with Grignard reagent⁻ (Grad. Sch. Eng., Saitama Inst. of Tech.) ○AZAMI, Hidekazu; IWASAKI, Masakazu
- 2PA-138** Synthesis of Pincer Complexes Containing Amidine Moieties (Faculty of Science, Shizuoka University) ○MONMAE, Tomoya; TSUKADA, Naofumi
- 2PA-139** Hydrosilylation of Allenes Catalyzed by Iridium(I) Complex Bearing the Cyclooctadiene Ligand. (Fac. Sci., Nara Women's Univ.) ○SAMOTO, Shoko; URA, Yasuyuki; KATAOKA, Yasutaka
- 2PA-140** Photophysical properties of a new Ir-Ru binuclear complex and its photocatalytic ability for CO₂ reduction (School of Science, Tokyo Institute of Technology) ○NAKAMURA, Satoshi; YAMAZAKI, Yasuomi; ISHITANI, Osamu
- 2PA-141[#]** Development of Iridium Catalyst for formic acid dehydrogenation to H₂ evolution (AIST RIEF) ○ONISHI, Naoya; FUJITA, Etsuko; MUCKERMAN, James T.; HIMEDA, Yuichiro
- 2PA-142** Preparation of Ir(III) methyl iodo complex bearing the phosphinoethyl cyclopentadienyl ligand having a P-centered chirality (Fac. Sci., Nara Women's Univ.) ○SEGAWA, Mayuka; URA, Yasuyuki; KATAOKA, Yasutaka
- 2PA-143[#]** Reversible Addition of Secondary Silanes on Silylene-Bridged Triplatinum Complexes and Catalytic Si-O Bond Formation (Lab. Chem. Life Sci., Tokyo Tech.) ○KAMONO, Megumi; TANAKA, Kimiya; TANABE, Makoto; OSAKADA, Kohtaro

Organic Chemistry -Reaction and Synthesis- Organic Photochemistry

- 2PA-145[#]** Fluorescence properties of dehydrolyciferin derivatives for firefly bioluminescence (Sci. Eng., The Univ. of Electro-Communications)
○ARITOSHI, Seira; MAKI, Shojiro; HIRANO, Takashi
- 2PA-146** Solvent effects on tautomerization and photoisomerization of pyridone derivatives (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○SHIMIZU, Keika; HASEYAMA, Takayuki; ARAI, Tatsuo
- 2PA-147[#]** Photochemical ring formation using sulfonamide derivatives of *o*-ethynylaniline (Fac. of Sci., Okayama Univ. of Sci.) ○NAKAMOTO, Taiki; WAKAMATSU, Kan; YAMADA, Haruo
- 2PA-148** Development of photo-responsive phosphine ligand for universal site-selectivity control of Kumada coupling reaction (Grad. Sch. Chem. Sci. Technol., TUS) ○YAMAZAKI, Ranna; IMAHORI, Tatsushi
- 2PA-149** Elucidation of control factors for photo-induced reactions between uracil derivatives and aromatics (Health Sciences University of Hokkaido; Showa Pharm. Univ.; Hokkaido Univ.) ○OHKURA, Kazue; OSHIMA, Nobuhiro; KITAURA, Hirotake; AKIZAWA, Hiromichi; SEKI, Koh-ichi
- 2PA-150** Effect of Electrophilic Promoters in the Photoreaction between Tetra-Coordinate Benzylboron Reagent and Isoquinoline (Fac. Sci. Eng., Shimane Univ.) ○KAJIWARA, Kohei; SUZUKI, Masaaki; NISHIGAICHI, Yutaka
- 2PA-151[#]** Synthesis of Dimeric Imidazo[1,5-*a*]pyridinium Salts and Its Luminescence Properties (Fac. Eng., Tokushima Univ.) YAGISHITA, Fumitoshi; ○NII, Chiho; TEZUKA, Yoshihiko; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko
- 2PA-152[#]** Structure determination of low-yield products from photoisomerization of multi-substituted benzene by the Crystalline Sponge Method (Grad. Sch. Eng., The Univ. of Tokyo) ○UTJAPIMUK, Soravit; SAKURAI, Fumie; KIKUCHI, Takashi; FUJITA, Makoto
- 2PA-153** Photoreaction with hyper-coordinate allylsilicon reagents bearing

- aryl-substituted catechol ligands (Grad. Sch. Fac. Sci. Eng., Shimane Univ.)
○YOSHIOKA, Hiroki; SUZUKI, Masaaki; NISHIGAICHI, Yutaka
- 2PA-154[#]** Stereoselective Synthesis of Macrocyclic Polyethers via Intramolecular Photocycloaddition Reaction of Chromones (Grad. Sch. Eng., Chiba Univ.)
○SANO, Kento; TAIRA, Ryo; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami
- 2PA-155** Construction and Spectroscopic Characterization of Perylene-tethered Linear Shaped Polyanthracene Systems (Grad. Sch. Eng., Shizuoka Univ.) TAKAHASHI, Masaki; ○SANTO, Keisuke; KURASAWA, Azumi; SENGOKU, Tetsuya; YODA, Hidemi

Catalysts and Catalysis

- 2PA-157** Influence of size and structure of metal nanoparticle prepared via liquid phase reduction method on catalytic activity (Grad. Sch. Eng., Oita Univ.; ESICB, Kyoto Univ.; Fac. Eng., Oita Univ.) ○NISHIDA, Yoshihide; SATO, Katsutoshi; NAGAOKA, Katsutoshi
- 2PA-158** Ni-W bimetallic catalyst for ammonia synthesis (MCES, Tokyo Tech.) ○FUKAZU, Yuhei; KITANO, Masaaki; TSUJI, Yuuki; HOSONO, Hideo
- 2PA-159** Reduction of nitrate in water by Raney nickel catalyst (Grad. Sch. Sci. Eng., Univ. of Toyama) ○OSAWA, Tsutomu; TAKATANI, Miku; SODENO, Arata
- 2PA-160** Theoretical study on the demethylation reaction mechanism in reversible hydrogenation of toluene on Pt catalyst (Sch. Advanced Sci. Eng., Waseda Univ.) ○AKAHIRA, Daisuke; OKOSHI, Masaki; KIKUCHI, Yasuaki; NAKAI, Hiromi
- 2PA-161** Influence of basic oxide dopant on Co-Al-Mg-O solid solution catalyst for dry reforming of methane (Grad. Sch. Eng., Oita Univ.; ESICB, Kyoto Univ.; Fac. Eng., Oita Univ.) ○HINO, Masaya; KITAYAMA, Godai; SATO, Katsutoshi; NAGAOKA, Katsutoshi
- 2PA-162[#]** Synthesis of Carboxylate-metal Precursors for the Hydrocracking of Heavy oil. (Dept. of Chemical Eng, National Univ. of Sunchon) ○CHOI, Byeongmin; SON, Seokhwan; LEE, Chulwee; MINCHUL, Chung
- 2PA-163** Effect of La addition to alumina-supported nickel catalyst on the activity of water gas shift reactions (Fac. Eng., Shinshu Univ.)
○NAKAZAWA, Hiromu; KOBAYASHI, Takuya; OKADA, Tomohiko
- 2PA-164[#]** I₂CaO · 7Al₂O₃ Electride supported gold nanoparticle catalyst for CO oxidation. (MCES, Tokyo Tech.) ○UCHIYAMA, Yuki; KITANO, Masaaki; HOSONO, Hideo
- 2PA-165[#]** Synthesis of Styrenated Phenol over the Ni,Al/SiO₂ Catalyst for Styrene monomer and phenol. (Dept. of Chemical Eng, National Univ. of Sunchon) ○CHUNG, Minchul; LEE, Seungmin; SON, Seokhwan; AHN, Hogeun
- 2PA-166[#]** Photocatalytic hydrogen evolution reaction catalyzed by a mesoporous organosilica covalently linked with an iron dinuclear complex (Toyota Central R&D Labs., Inc.) ○HIMIYAMA, Tomoki; WAKI, Minoru; ONODA, Akira; HAYASHI, Takashi; INAGAKI, Shinji
- 2PA-167** Development of Platinum-Cobalt bimetallic catalyst for three-way reaction (Grad. Sch. Eng., Oita Univ.; ESICB, Kyoto Univ.; Fac. Eng., Oita Univ.) ○MIYAZAWA, Akira; SATO, Katsutoshi; NAGAOKA, Katsutoshi
- 2PA-168** Effect of adding In-Sn metal oxides on photoelectrochemical properties of p-type metal sulfides (Fac. Sci., TUS) ○HONMA, Ikko; TAKAYAMA, Tomoaki; IWASE, Akihiko; KUDO, Akihiko
- 2PA-169[#]** Photoelectrochemical Water Splitting Using Perovskite-type BaNb₂O₇ Absorbing Visible Light above 700 nm (Grad. Sch. Eng., The Univ. of Tokyo) ○SEO, Jeongsuk; HISATOMI, Takashi; KATAYAMA, Masao; DOMEN, Kazunari
- 2PA-170[#]** Photoelectrochemical Water Splitting by a Combination of Surface Modified La₂Ti₂Cu_{0.9}Ag_{0.1}S₅O₇ and BaTaO₂N Photoelectrodes (Grad. Sch. Eng., The Univ. of Tokyo) ○HIGASHI, Tomohiro; SHINOHARA, Yuki; OHNISHI, Atsushi; LIU, Jingyuan; UEDA, Koichiro; HISATOMI, Takashi; KATAYAMA, Masao; NISHIYAMA, Hiroshi; YAMADA, Taro; MINEGISHI, Tsutomu; DOMEN, Kazunari
- 2PA-171[#]** TiO₂ nanotubes decorated with protected CdS quantum dots for solar water splitting (Inst. Sci. Tech. Res., Chubu Univ.)
○ABDELHALEEM, Ashraf Mohamed; NAGARAJU, Perumandla; NARUTA, Yoshinori
- 2PA-172** Investigation on the nitridation process and photoelectrochemical properties of SrNbO₂N (Grad. Sch. Eng., The Univ. of Tokyo)
○KODERA, Masanori; SEO, Jeongsuk; KATAYAMA, Masao; MORIYA, Yosuke; HISATOMI, Takashi; MINEGISHI, Tsutomu; DOMEN, Kazunari
- 2PA-173** Effect of water vapor on photocatalytic degradation of gaseous acetaldehyde by Cr(III) doped TiO₂ under visible light irradiation (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○KOZASA, Keisuke; NISHIYAMA, Naoto; HONDA, Kensuke; YAMAZAKI, Suzuki
- 2PA-174** Photocatalytic degradation of acetaldehyde on porous TiO₂ photocatalysts under white LED light irradiation (Fac. Sci., Yamaguchi Univ.)
○SONODA, Kotoe; KOZASA, Keisuke; YAMAZAKI, Suzuki
- 2PA-175** Influence of pulverizing treatment for oxide precursors prepared by polymerizable complex method on photocatalytic properties (IMRAM, Tohoku Univ.) ○KAMEMURA, Naohiro; KATO, Hideki; KOBAYASHI, Makoto; KAKIHANA, Masato
- 2PA-176** Preparation of CuBi₂O₄ photocatode by MOD method and its photoelectrochemical property (Grad. Sch. Eng., KIT) ○SAGARA,

Nobuhiro; KAMIMURA, Sunao; OHNO, Teruhisa

- 2PA-177[#]** Visible-light-driven water splitting system of organo-photocathode and tungsten photoanode (Grad. Sch. Sci. Tech., Hirosaki Univ.; Lab. Chem. Life Sci., Tokyo Tech.) ○KAWAI, Yuto; NAGAI, Keiji; ABE, Toshiyuki
- 2PA-178** Degradation of 4-chlorophenol on TiO₂/graphene composite photocatalyst (Fac. Sci., Yamaguchi Univ.) ○TAKAKI, Daisuke; NISHIYAMA, Naoto; HONDA, Kensuke; YAMAZAKI, Suzuki
- 2PA-179** Attempt of cellulose decomposition by controlling photocatalytic oxidization (Graduate School of Science and Technology) ○AOKI, Kazuma; OHWAKI, Takeshi

Theoretical Chemistry, Chemoinformatics, and Computational Chemistry

Electronic Structure

- 2PA-181** UV-vis spectra Simulation of azo dyes by using TD-DFT calculation (R&D Dept. TAIYO HLD CO., LTD) ○SAHARA, Go; HIRAI, Yoshitaka; ANDO, Shinji
- 2PA-182** Theoretical investigation of hole mobility in OPV3 derivatives (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) FUJISAWA, Hiroaki; MATSUI, Toru; MORIHASHI, Kenji

Chemical Reaction

- 2PA-183[#]** Electrostatic field induced variation in the activation energy of H + CO on the ice surface (Grad. Sch. Eng., Yokohama Natl. Univ.) ○KUWAHATA, Kazuaki; OHNO, Kaoru

Simulation

- 2PA-184[#]** Theoretical study about hydrogen and a cluster of solvent molecule (Nagasaki nishi high school) ○YUKINO, Masato; KONDO, Takuma; GONDOH, Yoshinobu; HASHIMOTO, Tomohiro
- 2PA-185** QM/MM study for an acylation reaction of class A β -lactamase and benzylpenicillin - A proposal for its new reaction mechanism including a proton transfer in a salt bridge (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○KOMAI, Miho; MATSUI, Toru; MORIHASHI, Kenji
- 2PA-186[#]** Implementation of the Replica-Exchange Method (REM), Umbrella Sampling (US) method, and Replica-Exchange Umbrella Sampling (REUS) method in the DFTB+ and GAMESS packages. (Sch. Sci., Nagoya Univ.) ○ITO, Shingo; OKAMOTO, Yuko; IRLE, Stephan
- 2PA-187[#]** Evaluation of fullerene derivatives for organic photovoltaic by molecular simulation (Osaka Municipal Technical Research Institute) ○MATSUMOTO, Fukashi; SUMINO, Shuhei; IWAI, Toshiyuki; ITO, Takatoshi; OHNO, Toshinobu
- 2PA-188[#]** Theoretical study on stability of self-assembled water-soluble gear-shaped amphiphile molecules (International Coll. Arts Sci., Yokohama City Univ.) ○KOIDE, Takuya; MASHIKO, Takako; HIRAOKA, Shuichi; NAGASHIMA, Umpei; TACHIKAWA, Masanori

Dynamics

- 2PA-189[#]** Computer Simulation of Isotope-Selective Dissociation of Lithium Chloride Molecules in the Rotational Temperature of 70 K by Terahertz Optical Pulses (NSEC, JAEA) ○ICHIHARA, Akira; MATSUOKA, Leo

Materials

- 2PA-190** Study of the stability at charge separated states in organic photovoltaic semiconductors with constrained density functional theory (Sch. Sci. Eng., Univ. of Tsukuba) ○FUJITA, Takehiro; MATSUI, Toru; MORIHASHI, Kenji
- 2PA-191** Theoretical study of hydrogen storage in heteroatom-substituted truncated tetrahedron hydrocarbons (Sch. Sci., Tokai Univ.) ○NEMOTO, Tetsushi; ICHIKAWA, Naoto; MAEDA, Hiroki; ISHIKAWA, Shigeru
- 2PA-192[#]** Density functional theory calculation on structural properties of gold clusters inside a ZSM-5 zeolite cavity (KIT) ○YOSHIKAWA, Rina; YUMURA, Takashi; KUMONDAI, Mitsuhiro; WAKASUGI, Takashi
- 2PA-193** Theoretical evaluation of the isotopic partition function of a strontium ion clathrated in the cryptands (Sch. Sci., Tokai Univ.) ○SUWA, Erika; OKUMURA, Sayako; ISHIKAWA, Shigeru
- 2PA-194** Theoretical evaluation of the isotopic partition function of a cesium ion clathrated in the cryptands (Sch. Sci., Tokai Univ.) ○OKUMURA, Sayako; SUWA, Erika; ISHIKAWA, Shigeru

Bio

- 2PA-195[#]** Theoretical Investigations of PGH₂ to PGD₂ Isomerization Reaction by Lipocalin-Type Prostaglandin D Synthase using Quantum Mechanics/Molecular Mechanics Method (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○SATO, Takehiro; SHIMAMOTO, Shigeru; ARITAKE, Kosuke; URADE, Yoshihiro; MORI, Seiji
- 2PA-196** Density Functional Study on Transition States for Conversion Process from Internal Aldimine to External Aldimine in GadB Decarboxylase

from Escherichia coli (Grad. Sch. Eng., Mie Univ.) ○MITANI, Masaki; SAKAMOTO, Jumpei

- 2PA-197[#]** Interaction Analysis between HIV-1 and PGT antibodies by FMO calculations (Grad. Sch. Of Humanities and Sci., Ochanomizu Univ.) ○KUSUMOTO, Miyu; NOTO, Kaori; TAKANO, Keiko
- 2PA-198** A theoretical study on the influence of surroundings on intramolecular hydrogen bond in okadaic acid (Sch. Sci. Eng., Univ. of Tsukuba; Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) YAMAMOTO, Kanako; ○MATSUI, Toru; MORIHASHI, Kenji
- 2PA-199[#]** Theoretical study of the interaction between a neutralizing antibody and glycan ligands on the HIV-1 envelope glycoprotein (Coll. Liberal Arts Sci., Kitatsato Univ.) ○NOTO, Kaori
- 2PA-200** Density functional study on the stability for Histidine dimers of M2 channel in influenza A virus (Grad. Sch. Eng., Mie Univ.) ○INAI, Takuya; MITANI, Masaki

Mathematical Chemistry

- 2PA-201** The calculation of Residual entropy of square ice (Chukyo Univ. ILS) ○MUGURUMA, Chizuru

Chemical Information

- 2PA-202** Evaluation of the catalytic activity for methane steam reforming with surface model calculations and statistical methods (Sch. Sci., Hokkaido Univ.) ○ONODA, Haruka; KOBAYASHI, Masato; TAKETSUGU, Tetsuya

Others

- 2PA-203** Explorations of structures of nitrogen clusters (Grad. Sch. Sys. Eng., Wakayama Univ.) ○MUKAI, Tomohiro; YAMAKADO, Hideo; TOKOYAMA, Hiroaki; OHNO, Koichi
- 2PA-204** Search for relative configuration of cation and anion which constitute Ionic-Liquid (Grad. Sch. Sys. Eng., Wakayama Univ.) ○HAMAGUCHI, Kouki; YAMAKADO, Hideo; TOKOYAMA, Hiroaki; OHNO, Koichi

Friday, March 17, AM

(12 : 30 ~ 14 : 00)

Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

- 2PB-001** Rational design of Chiral Ag(I)-Bisamidine Catalyst : Stereoccontrol in Asymmetric Friedel-Crafts Alkylation of Indoles with α -Substituted- β -Nitroacrylates (Grad. Sch. Sci., Rikkyo Univ.) ○NOMOTO, Takumi; YAMANAKA, Masahiro
- 2PB-002** 3, 3' -substituent Effect in BINOL-phosphoryl-boronate Catalyzed Asymmetric 1,4-Reduction of α , β -Unsaturated Ketone. (Grad. Sch. Sci., Rikkyo Univ.) ○YAMAMOTO, Eri; YAMANAKA, Masahiro
- 2PB-003** Development of 2,2' -bipyridine derived chiral ligand bearing conformationally flexible short peptide chain. (Grad. Sch. Sci., Rikkyo Univ.) ○TAKAHASHI, Yuki; YAMANAKA, Masahiro
- 2PB-004[#]** Hydration of alkynes catalyzed by sulfonated COPNA resin (Sch. Life Dent., The Nippon Dental Univ.) ○TANEMURA, Kiyoshi; SUZUKI, Tsuneo
- 2PB-005[#]** Synthesis and Oxidation of Heterocyclic Compounds with Ammonium Tribromide (Sch. of Med., Fukushima Med. Univ.) ○SAYAMA, Shinsei
- 2PB-006** Synthesis of Oxindoles Using Umpolung Reaction of 1*H*-Indazole-3-carboxylates (Grad. Sch. Eng., Mie Univ.) TANAKA, Takanori; ○MORI, Mayuko; MIZOTA, Isao; SHIMIZU, Makoto
- 2PB-007[#]** Theoretical Study on asymmetric Mannich reaction by 1,2,3,4,5-Pentacarbomethoxycyclopentadiene (PCCP). (IMCE, Kyushu Univ.) ○SAITO, Masashi; KAMACHI, Takashi; YOSHIZAWA, Kazunari
- 2PB-008[#]** Synthesis and Properties of Macrocyclic Alkanes with Six Functional Side Chains (Fac. Sci., Yamagata Univ.) ○KURATA, Yoshinori; SEYA, Noriyo; MURASE, Takashi
- 2PB-009** Synthesis of Nitrogen-Containing Compounds Using 1,4- and 1,6-Double Nucleophilic Addition Reactions of Dialkynyl Imines (Grad. Sch. Eng., Mie Univ.) NAKAMURA, Kenta; ○HARA, Masaya; HACHIYA, Iwao; SHIMIZU, Makoto
- 2PB-010** Preparation of enamionones and their reactivities (Fac. Eng., KAIT) YAMAGUCHI, Jun-ichi; ○AKAGI, Yuka
- 2PB-011[#]** NMR studies of the behaviors of carbonyl compounds in solutions (Hiroshima Institute of Technology) ○HIRAGA, Yoshikazu; NIWAYAMA, Satomi; CHAKI, Saori
- 2PB-012** Metal-Free Mannich-Type Reaction of Imine and Silyloxydiene (Dept. Appl. Chem., Nat. Def. Acad.) ○FUKUMOTO, Shoichi; ISHIMARU, Kaori
- 2PB-013** Stereocconvergent Conjugate Addition of 5*H*-Oxazol-4-ones Catalyzed by Chiral Guanidines (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○TATSUMI, Toshifumi; MISAKI, Tomonori; SUGIMURA, Takashi

- 2PB-014[#]** Formation of Internal Olefinic Trimer from α -Methylstyrene Derivatives with HI (Grad. Sch. Eng., Chiba Univ.; Godo Shigen Co., Ltd.) MATSUMOTO, Shoji; OSEKI, Takehisa; NAITO, Masafumi; AKAZOME, Motohiro; OTANI, Yasuhiro
- 2PB-015[#]** Optimization of tail-to-tail dimerization of methacrylates catalyzed by N-heterocyclic carbene (Grad. Sch. Eng., Nagoya Inst. of Tech.) OKAWAI, Hiroki; MATSUOKA, Shin-ichi; SUZUKI, Masato
- 2PB-016** Copper-catalyzed coupling reaction of acylsilanes with imines under photoirradiation conditions : synthesis of *N*-(silylmethyl)amide derivatives (Fac. Sci., Gakushuin Univ.) ONAKAYAMA, Hiromi; ISHIDA, Kento; KUSAMA, Hiroyuki
- 2PB-017** Enantioselective Reaction of 2*H*-Azirines with Phosphites Using Novel Chiral Bis(imidazoline)-Lewis Acid Catalysts (Grad. Sch. Eng., Nagoya Inst. of Tech.) OHAYAMA, Daiki; NAKAMURA, Shuichi
- 2PB-018** Stereoselective Claisen Rearrangement and Their Application of α -Imino Allyl Esters Utilizing *N*-Alkylation Reaction (Grad. Sch. Eng., Mie Univ.) MIZOTA, Isao; OEJIMA, Tomoki; SHIMIZU, Makoto
- 2PB-019** Umpolung Reaction Followed by Intramolecular Amidation of *N*-Mono-substituted α -Hydrazonoester (Grad. Sch. Eng., Mie Univ.) MIZOTA, Isao; OIWAMI, Mizuo; SHIMIZU, Makoto
- 2PB-020** Umpolung Reaction of α -Hydrazonoester: Synthesis of α -Aminoamide and Its Application (Grad. Sch. Eng., Mie Univ.) MIZUKOSHI, Nanami; OMIZUTANI, Shunsuke; MIZOTA, Isao; SHIMIZU, Makoto
- 2PB-021** Enantioselective cyclopropanation reactions by new pyridinium ylides (Grad. Sch. of Humanities and Sci., Ochanomizu Univ.) OTSUJIMURA, Aya; YAMADA, Shinji
- 2PB-022** Umpolung Reaction of *N*-Sulfinyl- α -imino Amide (Grad. Sch. Eng., Mie Univ.) UCHIMIZU, Shota; HOTTA, Miyuki; MIZOTA, Isao; SHIMIZU, Makoto
- 2PB-023** Synthesis and reaction of fluorinated benzoicyclobutene derivatives (Grad. Sch. Sci. Tech., Gunma Univ.) OKOMODA, Kazuki; SUGIISHI, Tsuyuka; AMII, Hideki
- 2PB-024** Umpolung Reaction of *N*-Silyl- α -imino Ester Followed by Intramolecular Cyclization (Grad. Sch. Eng., Mie Univ.) TADANO, Yurie; OHARAMIISHI, Tomoki; MIZOTA, Isao; SHIMIZU, Makoto
- 2PB-025** *N,C,C*-Trialkylation Using Umpolung Reaction of α -Imino Thioester With Organometallic Reagents. (Grad. Sch. Eng., Mie Univ.) TSUJIMOTO, Yusuke; YAMAGUCHI, Tsubasa; MIZOTA, Isao; SHIMIZU, Makoto
- 2PB-026[#]** Acid-catalyzed Conversion of Hydrophobic Esters to Carboxylic Acids with Trifluoroacetic Acid-Water Mixture (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) OBANNO, Tomomi; OKABE, Hiroyuki; NOYORI, Ryoji; NAKA, Hiroshi
- 2PB-027[#]** *N*-Heterocyclic-Carbene-Catalyzed and Lewis-Acid-Accelerated Cyano-methylation of Aldehyde with Trimethylsilylacetonitrile. (Fac. Eng., TUS) OMAKIHIRA, Ryo; HANDA, Shinya; SUGIMOTO, Hiroshi
- 2PB-028[#]** Synthesis of Vitamin D Analogues Having A Modified C,D-Ring (Fac. Eng., Kanagawa Univ.; Dept. of Material & Life Chem., Kanagawa Univ.) ONAKADA, Haruki; SANO, Shun-ichiro; MATSUNO, Chikashi; OKAMOTO, Sentaro
- 2PB-029** Development of Length-Selective Catalyst Using Hydrogen Bonding between Amides (Grad. Sch. Fac. Sci., Kanagawa Univ.) OYABE, Joto; KIHARA, Nobuhiro
- 2PB-030** Diastereoselective Tandem *N*-Alkylation/ Cross-Coupling Reaction of α -Aldimino Thioesters. (Grad. Sch. Eng., Mie Univ.) HIGASHINO, Asako; ONAGATO, Toshiki; MIZOTA, Isao; SHIMIZU, Makoto
- 2PB-031[#]** Development of Novel Bifunctional Bis-base Type Organocatalysts (Grad. Sch. Eng., Kyoto Univ.) OEINARU, Shunsuke; ASANO, Keisuke; MATSUBARA, Seijiro
- 2PB-032** Asymmetric synthesis of Wieland-Miescher ketone and analogues catalyzed by monoamides of (1*S*, 2*S*)-1,2-diphenylethane-1,2-diamine (Sch. Eng., Nihon Univ.) OWATANABE, Kento; ZENBAYASHI, Takumi; TAMAI, Yasufumi
- 2PB-033[#]** Development of Acid-base Cooperative Catalyst Using Oligopeptide as Framework (Grad. Sch. Fac. Sci., Kanagawa Univ.) OKASAI, Riki; KIHARA, Nobuhiro
- 2PB-034** Development of Regioselective Diels-Alder Catalyst Using Hydrogen Bonding of Amide (Grad. Sch. Fac. Sci., Kanagawa Univ.) OSHIHARA, Yuki; KIHARA, Nobuhiro
- 2PB-035** The cationic ring-opening reaction of *gem*-dichlorocyclopropanes leading to 1,1-dichloro-1,3-dienes and its application to cross-coupling reactions (Sch. Sci. Tech., Kwansai Gakuin Univ.) OKONO, Taro; SASAKI, Ryosuke; ASIDA, Yuichiro; NAKATSUJI, Hidefumi; TANABE, Yoo
- 2PB-036[#]** PS-TBD catalyzed cyano-phosphorylation of carbonyl compounds (Coll. Edu., Ibaraki Univ.) ICHIMURA, Kanon; MATSUKAWA, Satoru
- 2PB-037** Synthesis of Alkaloid via Generation of *o*-Quinodimethanes (Gunma Univ.) OKAWANO, Hayate; SANO, Hiroshi
- 2PB-038** Withdrawn
- 2PB-039** Synthesis of α -amino acid derivatives via vinylphosphonium salt with heterogeneous phosphine catalyst (Fac. Life Med. Sci., Doshisha Univ.) OE, Yohei; UEMURA, Yuki; YATSUDUKA, Masaru; YATSUDUKA, Risa; MORI, Kiyotaka; OHTA, Tetsuo
- 2PB-040[#]** Pd-Catalyzed Cross-coupling Reaction of 2-Pyridyl Esters of Amino-acid Derivatives with Organoboronic Acids (Health Research Inst., AIST) OMURAKAMI, Teiichi; TANAKA, Mutsuo
- 2PB-041** Tandem Reaction and Its Application Utilizing Umpolung Reaction of the α -Imino Thioester Having an *N-m*-Methoxyphenyl Group (Grad. Sch. Eng., Mie Univ.) YANAGI, Yusuke; YAMASAKI, Shobu; MIZOTA, Isao; SHIMIZU, Makoto
- 2PB-042** Oxidative Cleavage of Algal Hydrocarbon Oil (Sch. Sci. Eng., Univ. of Tsukuba) OKANAEDA, Kei; KAWASHIMA, Hidehisa; KIJIMA, Masashi
- 2PB-043** Epoxidation of squalene by hydrogen peroxide with tungsten catalyst. (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; IRC3, AIST) OKUDA, Yuki; KAWASHIMA, Hidehisa; CHOI, Junchul; KIJIMA, Masashi
- 2PB-044** Development of General Methodology for Acylative Kinetic Resolution of Racemic Aromatic β -Hydroxy Esters by Improved Chiral Guanidine Catalysts (Grad. Sch. Fac. Sci. Eng., Shimane Univ.; Fac. Sci., TUS) OYAMADA, Akira; NAKATA, Kenya; SHIINA, Isamu
- 2PB-045** Orbital phase theory in diastereoselectivity of nucleophilic addition to 4-substituted cyclohexanones (Fac. Eng., Gifu Univ.) OHIBINO, Hayata; NARUSE, Yuji
- 2PB-046** Oxidation of isoxazolium salts by hypervalent iodine reagents: stereoselective approach to angular epoxide in anthraquinone framework (Sch. Sci., Tokyo Tech.) OMINODA, Ryo; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 2PB-047** Asymmetric Organocatalytic Desymmetrization : Application to the Total Synthesis of (-)-Lycoramine (Fac. Sci., Kochi Univ.) NUNOKAWA, Shiori; OKAWAKITA, Arisa; KOTSUKI, Hiroyoshi
- 2PB-048[#]** Synthesis of Diaryl Ethers using Cu(I) / Phenanthroline (Grad. Sch. Sci., Eng., Saitama Univ.) OZHAO, Yingying; HIROSE, Takuji; KODAMA, Kouichi
- 2PB-049[#]** Synthesis and physical properties of ionic dimer liquid crystals with DEME based cations. (Grad. Sch. Life Sci., Ritsumeikan Univ.) ONINAMI, Syouya; NODA, Tomoka; TSUGE, Syuu; KANEKO, Kousuke; YOSHIMURA, Yukihiko; ABE, Hiroshi; HANASAKI, Tomonori

Organic Chemistry -Reaction and Synthesis-Heteroatom Compounds

- 2PB-051[#]** Newman-Kwart rearrangement of BINOL-derived O-thiocarbamates without microwave irradiation (Fac. Pharm., Hokkaido Univ.) OKURIHARA, Takumaru; SATAKE, Shun; YOSHINO, Tatsuhiko; MATSUNAGA, Shigeki
- 2PB-052** Direct Catalytic Amide Synthesis from Ketones (Fac. Sci. Tech., Ryukoku Univ.) OHASEGAWA, Genna; OISHI, Naoki; HYODO, Kengo; UCHIDA, Kingo
- 2PB-053[#]** Control of Auto-oxidation of 9-Aminoanthracene and Its Application for an Imaging Reagent (Sch. Sci., Kitasato Univ.) OKUROTAKI, Takanori; WATANABE, Ryo; SAWAMURA, Yukihiko; OHTSUKI, Takemasu; KIKUCHI, Yuichi; KAWAKAMI, Fumitaka; ITAKURA, Makoto; UCHIYAMA, Koji; MARUYAMA, Hiroko; UCHIYAMA, Yosuke
- 2PB-054** Synthesis of P-Chiral Organophosphorus Compounds by Reacting Grignard Reagents with Phosphonochalcogenoates having a Binaphthyl Group (Fac. Eng., Gifu Univ.) OSUGIYAMA, Aya; MAEKAWA, Yuuki; KUWABARA, Kazuma; MURAI, Toshiaki
- 2PB-055[#]** Synthesis of 5-aminothiazoles substituted with various typical elements at the 2-positions (Fac. Eng., Gifu Univ.) OTAKAGI, Hokuto; NAKASHIMA, Naoto; HURUKAWA, Hidekazu; YAMAGUCHI, Kirara; MURAI, Toshiaki
- 2PB-056** Synthesis of Phosphine-carboxylic acids and Their Application to Asymmetric Synthesis (Fac. Eng., Kindai Univ.) OKADA, Yoshiharu; OTAKAGI, Yuta
- 2PB-057** Synthesis of 1,1'-Binaphthyl-Substituted Diphosphenes (Grad. Sch. Sci., Osaka Pref. Univ.) OURA, Rikako; TSURUSAKI, Akihiro; KAMIKAWA, Ken
- 2PB-058** Substituent and Counteranion Effects on Photoresponsive Coloring Behavior of Tetracoordinate Cationic Boron Complexes Bearing a 2,2'-Bipyridine Ligand (Grad. Sch. Sci. Eng., Univ. of Toyama) OYOSHINO, Junro; HATTA, Naoya; HAYASHI, Naoto; HIGUCHI, Hiroyuki
- 2PB-059[#]** Synthesis and Characterization of Fused-type Oligothiophene Derivatives with a Heterole Core (Iwate Univ. Fac. of Sci. and Engin.) MURAOKA, Hiroki; OKANG, Jasmin; OGAWA, Satoshi
- 2PB-060[#]** Synthesis and Electrochemical Property of Porphyrin Derivative with Triazine Dithiol Groups (Organization for Research Promotion, Iwate Univ.) OMURAOKA, Yusuke; KIMURA, Takeshi
- 2PB-061[#]** Synthesis and Structure of Group 10 Transition Metal Complexes with Selenium Compounds having Imidazo[1,5-*a*]pyridine Skeleton (Coll. Eng., Chubu Univ.) OFURUYASHIKI, Masao; NIYOMURA, Osamu
- 2PB-062[#]** Synthetic Study of Azobenzene Derivatives Bearing Selanyl Groups (Coll. Eng., Chubu Univ.) OKUWAHARA, Junya; FUJII, Toshiki; NIYOMURA, Osamu
- 2PB-063[#]** Synthesis of Selenonium Salts Having Imidazo[1,5-*a*]pyridine Skeleton by Reaction of Selenium Compound Having Various Substituents and Alkylating Agent (Coll. Eng., Chubu Univ.) OKAITA, Shingo; NIYOMURA, Osamu
- 2PB-064** Enantioselective desymmetrization of Aziridine with Malononitrile

- using Cinchona Alkaloid Amide/Zinc(II) Catalysts (Grad Sch. Eng., Nagoya Inst. of Tech.) ○KURODA, Mami; SHIOMI, Noriyuki; NAKAMURA, Syuichi
- 2PB-065** Synthesis and Structures of Benzothiacrown Ethers with Chirality in the Ring Systems (Grad. Sch. Sci. Eng., TMU) ○ANDO, Ryotaro; NABESHIMA, Kei; SUGIURA, Ken-ichi; HIRABAYASHI, Kazunori; SHIMIZU, Toshio
- 2PB-066** Synthesis and properties of π -extended bent-shaped donor molecules and their application to organic semiconductor (Faculty of Science and Engineering, Iwate University) OGAWA, Satoshi; ○KOMUKAI, Kazuki; MURAOKA, Hiroki; NISHIKAWA, Takao
- 2PB-067** Removal of Xylylene Groups from Tetrakis(o-xylylenedithio)-phthalocyanines with Toluene/Aluminum Chloride and Construction of Dithiophosphole (#Organization for Research Promotion, Iwate Univ.) KIMURA, Takeshi; ○IIDA, Kazuo
- 2PB-068** Synthesis of Several Linear Tricarbonates and Cyclic Dicarbonates from Carbon Dioxide and Glycerol (Osaka Municipal Technical Research Institute) ○MIHARA, Masatoshi; MOROGA, Kaname; IWASAWA, Tetsuo; NAKAI, Takeo; ITO, Takatoshi; OHNO, Toshinobu; MIZUNO, Takumi
- 2PB-069** Syntheses of Thiocarbonyl Oligothiophene Dye Using Direct Arylation Reaction (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○MIYAKE, Hideaki; MURAKAMI, Noritake; ISHIMOTO, Kango; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka
- 2PB-070** Synthesis and structure of pentacoordinated phosphorus-tetracoordinated boron bonded compounds bearing *N,O*-bidentate ligands (Fac. Sci., The Univ. of Tokyo) ○KODA, Yoichiro; O'BRIEN, Nathan; KANO, Naokazu
- 2PB-071** Synthesis of Diselenides having a Binaphthyl Skeleton and their Catalytic Usage (Grad. Sch. Industrial Tech., Nihon Univ.) ○HASHIMOTO, Hironori; ICHIKAWA, Hayato
- 2PB-072** Synthesis and Characterization of Spiro-type Oligothiophene Derivatives Functionalized with Aryl Groups (Faculty of Science and Engineering, Iwate University) MURAOKA, Hiroki; ○MATSUBARA, Yuuki; OGAWA, Satoshi
- 2PB-073** Trithyl alcohol Catalyzed Morita-Baylis-Hillman Reaction (Fac. Eng., TUS) ○MURAKAMI, Midori; DOZONO, Takahiro; KURIHARA, Seiji; IRIE, Ryo; IMAHORI, Tatsumi
- 2PB-074** Synthesis and Properties of the Head-to-Tail dimer of 1,4-di(2-thienyl)-1-thio-1,3-butadiene derivative Incorporated in a Dibenzobarrelene Skeleton (Fac. Sci., Saitama Univ.) ○MURAKAMI, Natsuki; NAKATA, Norio; ISHII, Akihiko
- 2PB-075** Structure and Reactions of a Conjugated Sulfine Synthesized by Oxidation of a Conjugated Thioketone Incorporated in a Dibenzobarrelene Skeleton (Fac. Sci., Saitama Univ.) ○EBINA, Ryota; NAKATA, Norio; ISHII, Akihiko
- 2PB-076** Design of the Decoherence-Reduced Phosphalkenes for NMR Qubits (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HWANG, Minsu; MIKAMI, Koichi; ITO, Shigekazu
- 2PB-077** Baeyer-Villiger Oxidation of α, β -Unsaturated Ketone with Selenium Catalyst (Grad. Sch. Industrial Tech., Nihon Univ.) ○YAMAMOTO, Yosuke; ICHIKAWA, Hayato
- 2PB-078** Synthesis of Antimony Compounds Bearing Extended Triptycyl Group (Coll. Sci., Rikkyo Univ.) ○NISHINO, Ryohei; MINOURA, Mao
- 2PB-079** Synthesis of Thioketones Having α -Hydrogen and Bearing Triptycyl Framework (Coll. Sci., Rikkyo Univ.) ○HIRANO, Yuma; YUKIMOTO, Mariko; MINOURA, Mao

Natural Products Chemistry

- 2PB-081** Synthetic studies of Cytonic Acids A and B (Grad. Sch. Sci. Eng., Kindai Univ.) ○YAMASHITA, Taiki; YAMAGIWA, Yoshirou; NAKAGAWA, Takayo
- 2PB-082** Simple Synthesis and Physiological Activities of Acerogenins (Fac. Eng., Kindai Univ.) OKAMURA, Mayu; OTSUKA, Yuka; FUJIWARA, Mayuka; WATANABE, Sayo; ○OKADA, Yoshiharu
- 2PB-083** Difference in chemical composition of two *Ligularia oligonema* samples collected in Yunnan province of China (Coll. Sci., Rikkyo Univ.) ○KURODA, Chiaki; INAGAKI, Kou; OKAMOTO, Yasuko; TORI, Motoo; HANAI, Ryo; GONG, Xun
- 2PB-084** Synthetic studies of terpenes (Grad. Sch. Integrated Arts Sci., Kochi Univ.) ○MAEDA, Mitsutoshi; ICHIKAWA, Yoshiyasu; SATO, Seiya
- 2PB-085** Structure-Activity Relationship Studies on Marine Cytotoxic Polyethers (Grad. Sch. Sci., Osaka City Univ.) ○OGATA, Yuta; NISHIKIBE, Kento; TOKITA, Moe; TAKI, Naoto; NISHIKAWA, Keisuke; MORIMOTO, Yoshiki
- 2PB-086** Single-step total synthesis of (\pm)-Hernandulcine utilizing direct Taldol reaction (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TAMURA, Nao; NAKATSUJI, Hidefumi; TANABE, Yoo
- 2PB-087** Exploration of seeds of ALS remedy from Fungal resources (Nihon Univ.) ○YANAI, Yuta; KUSAMA-EGUCHI, Kuniko; MAKINO, Mitsuko; HIROSE, Dai; MATSUZAKI, Keiichi; OHSAKI, Ayumi; FURUKAWA, Megumi
- 2PB-088** SYNTHETIC STUDIES ON TETRODOTOXIN MODEL COM-

- POUND (Grad. Sch. Sci., Osaka City Univ.) ○ARAKI, Yusuke; MARUYAMA, Takahiro; KIKUTI, Seiho; KOYAMA, Tomoyuki; NISHIKAWA, Keisuke; MORIMOTO, Yoshiki
- 2PB-089** Synthetic Studies toward Histriocotocoxin Using a 6,6-Spirocyclization Reaction by Mercury(II) Triflate (Grad. Sch. Sci., Osaka City Univ.) ○YOSHIDA, Hiroaki; KOYAMA, Tomoyuki; NISHIKAWA, Keisuke; MORIMOTO, Yoshiki
- 2PB-090** Synthetic study of notch-related glycan (Grad. Sch. Ind. Sci. Technol., TUS) ○FUJINAGA, Saki; OHTA, Yusuke; HACHISU, Masakazu; HORITO, Shigeomi
- 2PB-091** Synthesis of *O*-glycosylated hydroxylysine (Grad. Sch. Ind. Sci. Technol., TUS) ○YAMAGUCHI, Yukie; HACHISU, Masakazu; HORITO, Shigeomi
- 2PB-092** Synthesis of water soluble C-glycosylated pyrene complexes by intramolecular C-glycosylation. (Sch. Life Sci. Tech., Tokyo Tech.) ○MATSUYAMA, Akira; KANAMORI, Takashi; YUASA, Hideya
- 2PB-093** α -Selective glycosylation using 3,6-*O*-[1,1'-(ethane-1,2-diyl)]dibenzene-2,2'-bis(methylene)]-bridged 2-deoxyglucose (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○ITO, Euki; SHIMADA, Hiroaki; WAKAMORI, Shinnosuke; IKEUCHI, Kazutada; YAMADA, Hidetoshi
- 2PB-094** Study on synthesis of phenylalanine by benzylation of aminomalonitrile (Coll. Sci., Rikkyo Univ.) ○KOBAYASHI, Reiri; KUREBAYASHI, Saeka; WASHIO, Ayako; MASUDA, Arisa; TAKEUCHI, Ryo; KURODA, Chiaki
- 2PB-095** Jahanyne B and C, Novel Lipopeptides Analogs of Jahanyne from a Okinawan Marine Cyanobacteria (Fac. Edu., Univ. of Ryukyus) ○KUDO, Takafumi; OZAKI, Kaori; YAMANO, Aki; SUEYOSHI, Kosuke; SUMIMOTO, Shinpei; IWASAKI, Arihiro; SUENAGA, Kiyotake; TERUYA, Toshiaki
- 2PB-096** Cytotoxic Compounds from Marine Sponge (Grad. Sch. Sci., Eng., Ehime Univ.; ADRES, Ehime Univ.) ○DAIDO, Naoki; KURAMOTO, Makoto; SAKAMOTO, Motomu; MORI, Shigeki; UNO, Hidemitsu
- 2PB-097** Searching for Bioactive Compounds from *Ircinia* sp. (Grad. Sch. Sci., Eng., Ehime Univ.; ADRES, Ehime Univ.) ○NAKAMOTO, Masahiro; SAKAMOTO, Motomu; KURAMOTO, Makoto; MORI, Shigeki; UNO, Hidemitsu
- 2PB-098** A study of total synthesis of natural product keronopsin (Yonago Nat. Coll. of Tech.) ○YOSHIDA, Yuki; MIKAMI, Hiroki; YAMANE, Daiki; MATSUMOTO, Tatsuya; URUMA, Yoshiyuki; DOE, Matsumi; IIO, Hideo
- 2PB-099** Functional analysis of a kalkipyrene with selective cytotoxicity under nutrient starvation conditions (Sch. Adv. Eng., Kogakuin Univ.) ○NAGAYA, Yuki; ITO, Ami; IWASAKI, Arihiro; SUENAGA, Kiyotake; MATSUNO, Kenji; OHNO, Osamu

Biofunctional Chemistry ; Biotechnology

- 2PB-101** Isolation, Purification and Identification of Capsanthin from Red Paprika (*Capsicum Annuum* L.) and its Application to the Stark Spectroscopic Papers (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○SETO, Shota; HORIBE, Tomoko; URAGAMI, Chiasa; SUGAI, Yoko; MAOKA, Takashi; NISHIOKA, Takanori; HASHIMOTO, Hideki
- 2PB-102** Photoprotective Function in LHI Antenna Pigment-Protein Complexes from a Purple Photosynthetic Bacterium *Rhodospirillum rubrum* (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○SATO, Hiroki; YUKIHIRA, Nao; FUJIWARA, Masazumi; SUGAI, Yoko; ALASTAIR.T, Gardiner; RICHARD J., Cogdell; HASHIMOTO, Hideki
- 2PB-103** Investigation of the fucoxanthin reconstituted light-harvesting 1 complex from a purple photosynthetic bacterium *Rhodospirillum rubrum* G9 + (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○YUKIHIRA, Nao; SUGAI, Yoko; FUJIWARA, Masazumi; KOSUMI, Daisuke; IHA, Masahiko; SAKAGUCHI, Kazuhiko; KATSUMURA, Shigeo; ALASTAIR T., Gardiner; RICHARD J., Cogdell; HASHIMOTO, Hideki
- 2PB-104** Spectroscopic property of oligosilane derivatives in lipid aggregates (Grad. Sch. Biosci. Biotech., Tokyo Tech.) ○KATAOKA, Takuya; MURAOKA, Takahiro; KINBARA, Kazushi
- 2PB-105** Dispersion of carbon materials using the glycocluster synthesized from methylated cyclodextrin (Fac. Sci. Eng., Doshisha Univ.) ○KIMURA, Kota; HIRATA, Seira; KITAGISHI, Hiroaki
- 2PB-106** Development of Hypoxia-activatable Prodrug with Cell Nucleus Targeting (Grad. Sch. Biosci. Bioind., Tokushima Univ.) KATAOKA, Yuki; KOUZAKI, Risa; ○YAMADA, Hisatsugu; UTO, Yoshihiro
- 2PB-107** Synthesis of chlorophyll derivatives bearing a methyl viologen moiety and their function as photosensitizers (Graduate School of Life Sciences, Ritsumeikan University) ○HIZUME, Shota; IKEYAMA, Shusaku; AMAO, Yutaka; OGASAWARA, Shin; TAMIAMI, Hitoshi
- 2PB-108** Synthesis and photophysical properties of heterodyads of zinc and free-base chlorophyll derivatives (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○SHOJI, Sunao; TAMIAMI, Hitoshi
- 2PB-109** Fluorescent response of substituted tetrakisquinoline and phenanthridine derivatives toward pyrophosphate ion (Fac. Sci., Nara Women's Univ.) ○NISHIJIMA, Risa; OHNISHI, Risa; MIKATA, Yuji
- 2PB-110** Synthesizing cell membrane anchoring bilinone and zinc ion sensing (Grad. Sch. Eng., Doshisha Univ.) ○IWAMOTO, Shohei; MIZUTANI, Tadashi; NAKAJIMA, Takuya

- 2PB-111** The combinational effect of 5-aminolevulinic acid and ultrasound on tumor and its mechanistic investigation (Grad. Sch. Biosci. Bioind., Tokushima Univ.) ○KATSURA, Hanayo; SUZUKI, Takuma; KUSUHASI, Yuki; SAKAMOTO, Maho; YAMADA, Hisatsugu; OSAKI, Tomohiro; ISHIZUKA, Masahiro; TANAKA, Tohru; YAMANAKA, Nobuyasu; KURAHASHI, Tsukasa; UTO, Yoshihiro
- 2PB-112[#]** Synthesis and structure-activity relationship of new aryl propynoic acids with Wnt signaling inhibition (Faculty of Science and Engineering, Iwate University; Sch. Pharm., Iwate Med. Univ.) KAWANO, Tomikazu; ○OGAWA, Shinpei; NISHIYA, Naoyuki; OGAWA, Satoshi
- 2PB-113** Synthesis of Water-Soluble Dual-Headed Fluorophore Dimers and Evolution of its Molecular Recognition Properties (Fac. Sci., Fukuoka Univ.) ○MATSUMOTO, Keisuke; KUSANO, Shuhei; HAYASIDA, Osamu
- 2PB-114** Development of fluorescence probes based on pterin for glutathione S-transferase (Nagahama Institute of Bio-Science and Technology) ○MATSUMOTO, Minako; KAWAI, Yasushi
- 2PB-115[#]** The activatable photosensitizer using irreversible sonochemical reaction (Grad. Sch. Sci. Tech., Gunma Univ.) ○MASHIMO, Takeru; HORIUCHI, Hiroaki; OKUTSU, Tetsuo
- 2PB-116[#]** 19F chemical shift analysis of DNA B-Z transition using fluorine labeled pyrimidine (Sch. Mat. Sci., JAIST) ○YANG, Hui; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PB-117[#]** Synthesis and cross-linking properties of a novel photo-cross-linking oligonucleotide bearing a 2'-O-diazirinylmethylcytidine. (KIT) SUGIHARA, Yuta; ○TATSUMI, Soichi; KOBORI, Akio
- 2PB-118[#]** Metal ion binding by modified base pairs in DNA duplexes (Dept. of Material & Life Chem., Kanagawa Univ.; Sci. Tec., Sophia Univ.) ○ONO, Akira; SUGAWARA, Thoru; ITHO, Hikari; HIDAKA, Hikari; HIRUTA, Yu; MUTHO, Chizuru; YOKOTA, Riku; SANEYOSHI, Hisao; KONDO, Jiro
- 2PB-119[#]** Metal coordination behaviors of 5-carboxyuracil nucleobase inside DNA duplexes (Grad. Sch. Sci., The Univ. of Tokyo) ○SUZUKI, Akira; NISHIYAMA, Kotaro; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiro
- 2PB-120[#]** Synthesis of 4-O-(2-nitrobenzyl)uridine triphosphate and its properties as a substrate of RNA polymerases (Sch. Life Sci. Tech., Tokyo Tech.) OHNO, Kentaro; ○SUGIYAMA, Daiki; TAKESHITA, Leo; MASAKI, Yoshiaki; SEIO, Kohji
- 2PB-121[#]** Intracellular pH responsive chimeric PRNA derivatives incorporation of PRNA-Phenylboronic acid unit (IMRAM, Tohoku Univ.; Neuro., Tokyo Med. and Dental Univ.) ○FUKUYO, Yuri; INAGAKI, Masahito; UNABARA, Daisuke; UEMATSU, Ryohei; ARAKI, Yasuyuki; SAKAMOTO, Seiji; ISHIBASHI, Satoru; YOKOTA, Takanori; WADA, Takehiko
- 2PB-122[#]** Development of novel DNA photo-cross-linker for photochemical DNA manipulation with 400 nm irradiation. (JAIST) ○SASAGO, Shinobu; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PB-123[#]** 3-Vinylcarbazole derivatives accelerated photochemical C→U transition in DNA duplex (Sch. Mat. Sci., JAIST) ○TAKASHIMA, Yasuharu; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PB-124[#]** Effect of counterpart base of target cytosine in 3-cyanovinylcarbazole mediated C→U transition in DNA strand (Sch. Mat. Sci., JAIST) ○HONDA, Nozomi; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PB-125** Development of photo-responsive SNA by introduction of artificial nucleobases (Sch. Eng., Nagoya Univ.) ○YAMANO, Yuhei; MURAYAMA, Keiji; ASANUMA, Hiroyuki
- 2PB-126** Fluorescence quenching-based DNA probes possessing 3-deazaadenine skeleton for thymine identification (Sch. Eng., Nihon Univ.) ○TAKEDA, Takuya; ASO, Tatsuya; SAITO, Yoshio
- 2PB-127[#]** Droplet microfluidic platform for cell-free expression of green fluorescent protein (GFP) (Grad. Sch. Sci., The Univ. of Tokyo) ○SETYANINGRUM, Dwi Larasati; PARK, Jeewoong; UZAWA, Takanori; ITO, Yoshihiro; ISOZAKI, Akihiro; GODA, Keisuke
- 2PB-128** Synthesis of C2-substituted 8-aza-7-deaza-2'-deoxyadenosines as environmentally sensitive fluorescent nucleosides (Sch. Eng., Nihon Univ.) ○YANAGI, Masaki; YAMAUCHI, Takumi; TAKEDA, Takuya; SAITO, Yoshio
- 2PB-129[#]** Development of novel molecular devices capable of photo-cross-linking with DNA having specific structures (Fac. Sys. Eng., Wakayama Univ.; Sch. Mat. Sci., JAIST) ○SAKAMOTO, Takashi; FUJIMOTO, Kenzo
- 2PB-130** Reversible Sequence Edition of DNA through Global Conformational Change by Chemical and Physical Stimuli (Fac. Adv. Sci. Tech., Kumamoto Univ.) OTSUKA, Yukihiko; OHURA, Hiroyuki; SHIMADA, Hiroshi; ○KITAMURA, Yusuke; IHARA, Toshihiro
- 2PB-131[#]** Construction of photoinduced DNA signal release system dependent on ATP concentration (JAIST) ○MATSUNO, Hitoshi; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PB-132[#]** Photoinduced double duplex formation mediated by ultrafast DNA photo-cross-linking for antigenic method (JAIST) ○HUNG, Yangchun; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PB-133[#]** Development of novel photoresponsive DNA by postmodification method (Sch. Mat. Sci., JAIST) ○LI, Xue; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PB-134** Development of Electrochemical DNA Sensors Using Pillar-type Electrodes (Grad. Sch. Eng., Univ. of Hyogo) ○YAMASHITA, Tomoya; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 2PB-135[#]** SERS-based analytical methods for enzymatic activities on solid-surface (KIT) ○NAGAI, Yuki; OTA, Ryo; SUGIHARA, Yuta; KOBORI, Akio
- 2PB-136[#]** Detection of 5-methylcytosine and cytosine using vinyl-carbazole derivative mediated DNA photo-cross-linking (Sch. Mat. Sci., JAIST) ○NAKAJIMA, Ryo; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PB-137[#]** Development of RNA FISH using photoresponsive molecular beacon probe (Sch. Mat. Sci., JAIST) ○KANO, Chinami; TOYOSATO, Kei; SAKAMOTO, Takashi; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PB-138[#]** Development of bioorthogonal Raman tags for Surface-Enhanced Resonance Raman Scattering (KIT) SUGITA, Takayuki; ○NAKAMURA, Mitsunobu; NAKAMURA, Kazuki; KOBORI, Akio
- 2PB-139[#]** Development of photochemical DNA manipulation toward for the repair of thymine dimer in DNA (JAIST) ○JIMBO, Ryosuke; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PB-140[#]** Discrimination of RNAs with a point mutation using photo-cross-linking reaction (KIT) ○SOGO, Shunsuke; SUGIHARA, Yuta; KOBORI, Akio
- 2PB-141** Luminescent perylene diimide derivatives with specific binding ability to mutation sites in nucleic acids (Grad. Sch. Eng., Univ. of Hyogo) ○YAMAMOTO, Minori; TAKADA, Tadao; TAKATA, Ami; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 2PB-142[#]** Development of chiral condensing reagents for the stereocontrolled synthesis of phosphorus-modified oligonucleotide analogs. (Fac. Pharm. Sci., TUS) ○SHOJI, Kosuke; MAEDA, Yusuke; HARA, Rintaro; WADA, Takeshi
- 2PB-143[#]** Solid-phase Synthesis of RNA Modified with Acetylamino Group at Its 5'-End (Teikyo. Univ. of Sci. Grad. Sch. Sci. and Eng.) ○IWASE, Reiko; MAEKAWA, Tsuyohito
- 2PB-144[#]** Investigation of linker structures to functionalize pseudorotaxane-forming oligo nucleic acids (Grad. Sch. Environmental Studies, Tohoku Univ.) ○TAGUCHI, Akifumi; ONIDUKA, Kazumitsu; MIYASHITA, Takuya; NAGATSUGI, Fumi
- 2PB-145** Photocatalytic CO₂ Reduction Catalyzed by Metal Complex-Peptide Conjugates (Grad. Sch. Sci., Kitasato Univ.) ○OHTSUKA, Atsushi; KAMIYA, Masaya; KURAMOCHI, Yusuke; ISHIDA, Hitoshi
- 2PB-146** Design of PNA peptides for control of DNA G-quadruplex formation by external stimuli (FIRST, Konan Univ.) ○SHIMOOKA, Masayuki; OKADA, Arisa; HAMADA, Yoshio; USUI, Kenji
- 2PB-147** Self-assembling behavior of artificial viral capsids bearing oligo-His chain and the encapsulation of nucleic acids (Grad. Sch. Eng., Tottori Univ.) ○SATO, Yuki; SAKATA, Tatsuhiko; FUJITA, Seiya; INABA, Hiroshi; MATSUURA, Kazunori
- 2PB-148** Modification of Proteins on the Surface of Artificial Viral Capsids via SNAP-tag (Grad. Sch. Eng., Tottori Univ.) ○MATSUBARA, Yasutaka; OTA, Jyunpei; SHIOMI, Yuriko; INABA, Hiroshi; MATSUURA, Kazunori
- 2PB-149** Identification of plasminogen-binding and -activation sequences in the loop region of *Plasmodium falciparum* enolase. (Grad. Sch. Sci. Tech., Gunma Univ.) ○ISOMOTO, Nana; SHINODZUKA, Kazuo; OKU, Hiroyuki
- 2PB-150** Novel Peptide Antigens Using Phosphotyrosine Residues. (Grad. Sch. Sci. Tech., Gunma Univ.) ○NIWA, Suguru; SHINODZUKA, Kazuo; OKU, Hiroyuki
- 2PB-151** Suppression of pathological protein aggregation by nanostructures formed from secretion signal peptide of ovalbumin. (KIT; KIT) ○UEMURA, Takuya; KOBAYASHI, Yukako; WAKU, Tomonori; TANAKA, Naoki
- 2PB-152** Construction of novel nanostructure by protease digestion reaction to amyloid fibrils (FIRST, Konan Univ.) ○TATSUMI, Eita; KAWATAHARA, Rui; HARADA, Youji; HAMADA, Yoshio; USUI, Kenji
- 2PB-153[#]** The effects of halogenation of bisphenol A on binding affinity to nuclear receptor ERR γ (Fac. Arts and Sci., Kyushu Univ.) ○KANEKO, Shuhei; OKUBO, Takashi; LIU, Xiaohui; MATSUSHIMA, Ayami; KESAMARU, Hitoshi; SUYAMA, Keitaro; NOSE, Takeru
- 2PB-154** Production and Characterization of Basic Poly(amino acid)s Exhibiting Antifungal Activity (Sch. Eng., The Univ. of Shiga Pref.) ○HOSHIYAMA, Takafumi; MURO, Shogo; TAKEHARA, Munenori; INOUE, Yoshinori; KITAMURA, Chitoshi; FUKUI, Kento; NOMURA, Wataru; INOUE, Yoshiharu
- 2PB-155[#]** Regulation of protein recognition activities of molecularly imprinted polymer by site-directed post-imprinting modifications (Grad. Sch. Eng., Kobe Univ.) ○SUNAYAMA, Hirobumi; TAKEUCHI, Toshifumi
- 2PB-156[#]** Construction of photoresponsive protein-polymer conjugates based on a junctional photoreceptor (IMRAM, Tohoku Univ.) ○UI, Mihoko; MIYAUCHI, Yusuke; MURAKAMI, Makoto; ARAKI, Yasuyuki; WADA, Takehiko; KINBARA, Kazushi
- 2PB-157[#]** Application of water-soluble selenium oxidants to folding of aptropin from bovine lung (Sch. Sci., Tokai Univ.) ○SHINOZAKI, Reina; MAKINO, Kakeru; IWAOKA, Michio
- 2PB-158** Preparation of Monoclonal Antibodies against Spiro Compounds (Grad. Sch. Sci., Osaka Univ.) ○UCHIDA, Masayuki; TANIMOTO, Iku; ANADA, Masahiro; MATSUNAGA, Shigeki; YAMAGUCHI, Hiroyasu
- 2PB-159** Title: Study on the enzymatic and biological features of human catalytic antibody light chain of #4 clone (RPP., Oita Univ.) ○HIFUMI,

- Emi; WATANABE, Mayuko; UDA, Taizo
- 2PB-160** Structure and Electron Transfer Reaction of Pseudozurin Gly39 variants (Coll. Sci., Ibaraki Univ.) ○CHIBA, Nozomi; KOHZUMA, Takamitsu
- 2PB-161** Kinetic Investigation of Reaction Mechanism of an Aryl-carboxylesterase EstAC, and Characterization of its Substrate-binding Site (Sch. Eng., The Univ. of Shiga Pref.) ○SUGIYAMA, Katsunori; KUMAGAI, Yoshitaka; TAKEHARA, Munenori; INOUE, Yoshinori; KITAMURA, Chitoshi
- 2PB-162** Equilibrium of Two Fluorescence States of a Bilirubin-Dependent Fluorescent Protein UnG (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) SHITASHIMA, Yoh; SHIMOZAWA, Togo; ○ASAHI, Toru
- 2PB-163[#]** Development of a transcriptional factor-based intracellular glycation monitoring system (TUT) ○SAKAGUCHI-MIKAMI, Akane; ALLI, Yani Faozani
- 2PB-164[#]** Analysis of mouse monoclonal antibodies (MACs) specific for L₃Cer and its scFv antibodies generation (Coll. Sci. Tech., Nihon Univ.) ○SHIMOYAMA, Rumi; NAKAMURA, Yuki; TOITA, Tatsunori; SUZUKI, Yusuke; KUSHI, Yasunori
- 2PB-165** Synthesis of Galactosamine Derivatives having Azide Group at 4-position as Inhibitors against GalNAc4S-6ST (Aichi Univ. of Educ.; The Univ. of Aizu) ○KODAMA, Takumi; TSUZUKI, Bunta; YAMANA, Kenji; HIDARI, Kazuya; HABUCHI, Osami; ARAKI, Fumiko; NAKANO, Hirofumi
- 2PB-166[#]** Preparation of organometallic compounds having multiple carbohydrates and their ion-responses to induce dynamic changes in their carbohydrate packings. (Toyo Univ.) ○CHIGIRA, Naoto; DAI, Fumiko; HAGIO, Masahito; HASEGAWA, Teruaki
- 2PB-167[#]** Preparation and functional analysis of gossypols having two galactosides/maltosides (Fac. Life Sci., Toyo Univ.) ○AMANO, Yoshitsugu; NAKAMURA, Masaki; YOKOYAMA, Shoichi; SHIOZAWA, Nobuya; YANO, Tomohiro; HAGIO, Masahito; HASEGAWA, Teruaki
- 2PB-168[#]** Synthesis of Glycosylated Resveratrol Using Micro-bioreactor (Sch. Eng., Tokai Univ.) ○YABUNO, Rika; OISHI, Takefumi; KITUNEDUKA, Tetsuya; HANEDA, Katsuji; INAZU, Toshiyuki
- 2PB-169[#]** Synthesis and molecular properties of gossypol having two-maltoside appendages (Grad. Sch. Life Sci., Toyo Univ.) ○NAKAMURA, Masaki; AMANO, Yoshitsugu; HASEGAWA, Teruaki
- 2PB-170[#]** Development of artificial ribonucleases using A-type duplex-bindable oligodiaminogalactose derivatives (Fac. Pharm. Sci., TUS) ○HIDA, Tomoyoshi; YOSHINO, Reijiro; HARA, Rintaro; WADA, Takeshi
- 2PB-171** Synthesis of membrane-active antimicrobial α -cyclodextrin derivatives and their correlation between molecular structure and antimicrobial activity (Grad. Sch. Eng., Nagoya Inst. of Tech.) YAMAMURA, Hatsuho; ○ISHIDA, Tomoki; NONAKA, Miho; MIYAGAWA, Atsushi
- 2PB-172** Selective Molecular Information Processing Performed by Cerasome/Vitamin B₁₂ Nanohybrid (Grad. Sch. Mat. Sci., NAIST) ○YAMAKAWA, Masahiro; KAWANAKA, Chikako; SONG, Xi-ming; HISAEDA, Yoshio; KIKUCHI, Jun-ichi
- 2PB-173** Conformational analysis of sphingomyelin acyl chain by infrared spectroscopy (Grad. Sch. Sci., Osaka Univ.) ○SAIKI, Naoka; TSUCHIKAWA, Hiroshi; MONJI, Mami; UMEGAWA, Yuichi; MURATA, Michio; SLOTTE, J. Peter
- 2PB-174** Preparation of Hybrid Cerasomes Having Redox Activity (Grad. Sch. Mat. Sci., NAIST) ○YOSHIDA, Iori; NAKAYAMA, Megumi; YASUHARA, Kazuma; KIKUCHI, Jun-ichi
- 2PB-175[#]** Elucidation of characteristic of thermal degradation of structured triacylglycerols containing n-3 fatty acid. (NFRI) ○KANAI, Yoshikazu
- 2PB-176** Lipid characteristics of a vesitable, Kinjiso, Gynura bicolor (Ishikawa Pref. Univ.) GUSHIKEN, Nao; ○SAITO, Hiroaki
- 2PB-177** Reconstitution of lipid raft-like domains in a planar lipid bilayer and their evaluation (Grad. Sch. Mat. Sci., NAIST) ○MASAKI, Yoshikazu; TSUKAMOTO, Manami; KIKUCHI, Jun-ichi; YASUHARA, Kazuma
- 2PB-178[#]** Convenient glycolipid purification using ionic liquids (Grad. Sch. Sci. Tech., Nihon Univ.) ○NODA, Kazuhiko; SUZUKI, Yusuke; HARA, Shuta; AISU, Junpei; KABAYAMA, Kazuya; IKAKE, Hiroki; SHIMIZU, Shigeru; KUSHI, Yasunori
- 2PB-179** Preparation of non-spherical liposomes using micro structures (KAST) INOUE, Kosuke; ○KAMIYA, Koki; OSAKI, Toshihisa; MIKI, Norihisa; TAKEUCHI, Shoji
- 2PB-180[#]** Development of aptamers using modified DNA libraries containing base-appended bases (NEC Solution Innovators, Ltd.) MINAGAWA, Hirotaka; HIROTAKA, ONODERA, Kentaro; KASAI, Tatsuro; FUJITA, Hiroto; AKITOMI, Joe; ○KANEKO, Naoto; SHIRATORI, Ikuo; KUWAHARA, Masayasu; HORII, Katsunori; WAGA, Iwao
- 2PB-181[#]** Characterization and application of an aptamer against human saliva alpha-amylase (NEC Solution Innovators, Ltd.) MINAGAWA, Hirotaka; ONODERA, Kentaro; FUJITA, Hiroto; SAKAMOTO, Taiichi; AKITOMI, Joe; KANEKO, Naoto; SHIRATORI, Ikuo; KUWAHARA, Masayasu; ○HORII, Katsunori; WAGA, Iwao
- 2PB-182** Fabrication of field effect transistor type biosensor using an aptamer against alpha-amylase for detection of alpha-amylase (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○MATSUZAKA, Akane; HIDESHIMA, Sho; KANEKO, Naoto; HORII, Katsunori; WAGA, Iwao; KUROIWA, Shigeki; NAKANISHI, Takuya; OHASHI, Keishi; MOMMA, Toshiyuki; OSAKA, Tetsuya
- 2PB-183** Development of amino acids analysis method with enzymatic reaction (Grad. Sch. Info. Sci., Hiroshima City Univ.) ○KUGIMIYA, Akimitsu; YOSHIZAWA, Emi
- 2PB-184[#]** Centrifugal thermal convection RT-PCR for rapid detection of influenza virus (Grad. Sch. Eng., Osaka Univ.) ○MITSUMAKI, Takuya; SAITO, Masato; TAKAHASHI, Kazuya; TAMIYA, Eiichi
- 2PB-185[#]** Collagen nanofiber trajectory optimization for deflective focusing of electrospinning (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○ONIKI, Riho; NAMBU, Go; UEDA, Takehiko
- 2PB-186** Synthesis and functional evaluation of silver nanoparticles coated with radiation responsive polymer (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○FUKADA, Soichiro; KURIHARA, Ryohsuke; TANABE, Kazuhito
- 2PB-187** Synthesis and evaluation of 5-fluorouridine derivatives that respond for biological reduction (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○JIHO, Yota; KURIHARA, Ryohsuke; TANABE, Kazuhito
- 2PB-188** Lipase-catalyzed enantioselective desymmetrization of symmetric diols (Hiroshima Institute of Technology) ○NANNBA, Katuya; HIRAGA, Yoshikazu
- 2PB-189** Synthesis of novel optically active ester and sulfoxide by Baeyer-Villiger monooxygenase from *Fusarium* sp. NBRC109816 (Sch. Life Sci. Tech., Tokyo Tech.) ○NEMOTO, Hiroumi; MASUDA, Ayaka; MATSUDA, Tomoko
- 2PB-190[#]** Enzymatic carboxylation using *Thermoplasma acidophilum* isocitrate dehydrogenase with enzymatic (*Thermoplasma acidophilum* glucose dehydrogenase) NADPH regeneration (Sch. Biosci. Biotech., Tokyo Tech.) ○ARE, Kristian Ray Angelo; KOIKE, Yusuke; TAMURA, Mayumi; MATSUDA, Tomoko
- 2PB-191** The correlation between antitumor activity and dose rate using high dose rate of the medical linear accelerator. (Grad. Sch. Biosci. Bioind., Tokushima Univ.) ○KOUZAKI, Risa; YAJYU, Kazunori; HANYU, Ayaka; HARA, Takehiro; TOMINAGA, Masahide; YAMADA, Hisatsugu; UTO, Yoshihiro
- 2PB-192** Development of Sugar-modified Radiosensitizer (TX-2244) Targeting the Glycolytic Metabolism of Tumors (Grad. Sch. Biosci. Bioind., Tokushima Univ.) ○MIYAMOTO, Daisuke; SHINOHARA, Yusei; YAJYU, Kazunori; KOUZAKI, Risa; HANYU, Ayaka; YAMADA, Hisatsugu; TOMINAGA, Masahide; UTO, Yoshihiro

Chemical Biology

- 2PB-195** Interaction analysis between ganglioside GM3 and EGFR transmembrane domain in membrane as examined by fluorescence spectroscopy (Grad. Sch. Sci., Osaka Univ.; ERATO, JST; Fac. Applied Bio. Sci., Gifu Univ.; WPI-iCeMS, Kyoto Univ.) ○NAKANO, Mikito; HANASHIMA, Shinya; HARA, Toshiaki; MURATA, Michio; KABAYAMA, Kazuya; FUKASE, Koichi; ANDO, Hiromune; KISO, Makoto; SUZUKI, Kenichi
- 2PB-196[#]** Synthetic study of 5F-glucosylceramide toward orientation analysis of the head-group in model biomembrane (Sch. Sci., Osaka Univ.) ○ISHII, Akira; HANASHIMA, Shinya
- 2PB-197** Screening of the inhibitors of lipopolysaccharide (LPS) function from the marine sponge (Sch. Adv. Eng., Kogakuin Univ.) ○TERASAKI, Takuro; MATSUNO, Kenji; OHNO, Osamu
- 2PB-198[#]** Screening for inhibitors of kynurenine-production from marine organisms (Sch. Adv. Eng., Kogakuin Univ.) ○SASAKI, Tomomi; OHNO, Osamu; ASAI, Akira; TAKIKAWA, Osamu; MATSUNO, Kenji
- 2PB-199** Development of a biotinylated photoaffinity probe based on an antitumor saponin OSW-1 (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HATTORI, Tadashi; SAKURAI, Tomoya; NARITA, Sho; YAMADA, Rika; SAKURAI, Kaori
- 2PB-200** Development of fluorescence sensor for biosynthesis and distribution of retinoids (IBB, Tokyo Med. and Dental Univ.) ○IMAIDA, Kazuhiro; HIRANO, Tomoya; KAGECHIKA, Hiroyuki
- 2PB-201[#]** Photo-caged far-red fluorescent dye based on a phospho-fluorescein (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○HOSOKAWA, Riho; OGASAWARA, Hiroaki; TAKI, Masayasu; YAMAGUCHI, Shigehiro
- 2PB-202[#]** Synthesis of novel pyridylpyrrole derivatives possessing a 6' -substituted pyridine moiety (Grad. Sch. Eng., Utsunomiya Univ.) OBA, Toru; ○HATA, Takuya; ITO, Satoshi
- 2PB-203[#]** Synthesis of aziridines as nerve cell-targeted compounds (Fac. Eng., Utsunomiya Univ.; Fac. Eng., Utsunomiya Univ.) OBA, Toru; ○ANJU, Shintaro; SUZUKI, Tomohiro; ITO, Satoshi
- 2PB-204[#]** Development of Activatable ¹⁹F MRI Nanoprobes Using Perfluorocarbon Encapsulated in Silica Nanoparticle (Grad. Sch. Eng., Osaka Univ.) ○AKAZAWA, Kazuki; AKIMOTO, Rena; SUGIHARA, Fuminori; MIZUKAMI, Shin; KIKUCHI, Kazuya
- 2PB-205** Water-Soluble Anthracenophane-Based Fluorescent Imaging Probes for Folate Receptor-Overexpressed Cells (Grad. Sch. Eng., Kobe Univ.) TAKIMOTO, Kyohei; KITAYAMA, Yukiya; ○TAKEUCHI, Toshifumi
- 2PB-206[#]** *In silico* screening and synthesis of carbohydrate-modified fluorescent probes for the detection of selectins (Sch. Life Sci. Tech., Tokyo Tech.) ○KANAMORI, Takashi; KUWABARA, Satoshi; OGURA, Shun-ichiro; OHKUBO, Akihiro; YUASA, Hideya
- 2PB-207[#]** Synthesis and properties of novel quinolyl-pyrroles possessing a

boronic acid moiety (Grad. Sch. Eng., Utsunomiya Univ.; Grad. Sch. Eng., Utsunomiya Univ.) ○MIYATA, Kota; ITO, Satoshi; OBA, Toru

2PB-208[#] Synthesis of novel voltage sensitive phenoxazines and BODIPYs (Grad. Sch. Eng., Utsunomiya Univ.) OBA, Toru; ○SAKAGUCHI, Ryo; ITO, Satoshi

2PB-209 Exploration of a reactive group for covalent drugs and its application to discovery of EGFR inhibitors (Grad. Sch. Pharm., Kyushu Univ.) ○SATO, Mami; SHINDO, Naoya; FUCHIDA, Hirokazu; HATSUYAMA, Yuji; MIURA, Chizuru; OKAMOTO, Kei; WATARI, Kosuke; ONO, Mayumi; OJIDA, Akio

Friday, March 17, PM

(15 : 00~16 : 30)

Education and History of Chemistry

2PC-001 Design of chemistry classes using tablet devices with digitizer pens at college of technology (Kobe City Coll. Technol.) ○SATO, Hiroto; FUKUMOTO, Kozo; OSHIO, Aiko

2PC-002 Learning Materials for Junior or Senior High School Education that Provide an Experience-based Education for Organic Molecules (Hyogo University of Teacher Education) ○NAKAJIMA, Shuhei; OZEKI, Toru; KOWADA, Yoshiyuki; TAKAMI, Shizuka; YAMAGUCHI, Tadatsugu

2PC-003 Utilization of digital contents for university entrance examination for multifaceted evaluation (Grad. Sch. Sci. Eng., Saga Univ.; Saga Univ. Admissions Center; Saga Prefectural Karatsu-Higashi High School; Saga Prefectural Saga-Nishi High School) ○KODAMA, Hiroaki; OSADA, Satoshi; SAKAGUCHI, Koichi; YAMAGUCHI, Akinori; MATSUTAKA, Kazuhide; SONODA, Yasutada; NISHIGORI, Dai

2PC-004 Development of Green and Sustainable Chemistry textbooks. (Fac. Sci., Toho Univ.) ○IMAI, Izumi; TOMINAGA, Ken-ichi; UENO, Keiji; OGINO, Kazuko; TOMITA, Hitoshi; TAGUCHI, Takashi; MIURA, Tsunemasa

2PC-005 Development of the experiment that adopted a point of view of the LCA in a secondary chemistry education (Fac. Sci., Toho Univ.) ○MITSUHASHI, Ryosuke; IMAI, Izumi

2PC-006 Development of an Experimental Material Taking Advantage of Color Change Caused by the Hydrolysis Reaction (Fac. Sci., Toho Univ.) ○KOBAYASHI, Sayaka; IMAI, Izumi; WATANABE, Soichiro

2PC-007 Teaching material development of rocket stoves for environmental education and survey of educational effect (NIT, Yuge College) ○ITO, Takeshi

2PC-008 Development of teaching materials for clean energy education by methane fermentation (Fac. Edu., Ehime Univ.) ○TOMITA, Akira; OHASHI, Atsushi

2PC-009 Research on teaching materials of food additives (Fac. Edu., Ehime Univ.) OHASHI, Atsushi; ○SHIGEKAWA, Hiroki

2PC-010 Research on Teaching Materials Based on Photochromism (Hyogo Univ. of Teacher Educ.) ○OODAIRA, Yoshino; HASHIMOTO, Shouta; YAMAGUCHI, Tadatsugu; KOWADA, Yoshiyuki; OZEKI, Toru

2PC-011 Identification of cellulose fibers (Grad. Sch. Mathematics Sci. Edu., TUS) ○YOSHIKAWA, Syogo; INOUE, Masayuki

2PC-012 Synthesis of aniline derivative pharmaceuticals with acetylsalicylic acid (Grad. Sch. Mathematics Sci. Edu., TUS) ○MITSUI, Syuta; INOUE, Masayuki

2PC-013 Synthesis of ethenzamide from methyl salicylate as an experiment for teaching material (Grad. Sch. Mathematics Sci. Edu., TUS) ○SAITO, Ryo; INOUE, Masayuki

2PC-014 Dehydration of terpene alcohol with borate silica gel as solid acid (Grad. Sch. Mathematics Sci. Edu., TUS) ○MURATA, Megumi; INOUE, Masayuki

2PC-015 Development of Repeatable pH Testing Tool Using Anthocyanin Derivatives (Fac. Edu. Culture, Univ. of Miyazaki) ○TANAKA, Tomoko; IWATA, Kensuke; ARII, Hidekazu

2PC-016 Preparation of conductive polymer and the development of teaching materials which experience its application. (Fac. Eng., Univ. of Yamanashi) ○NAMIUCHI, Daichi; OGAWA, Kazuya

2PC-017[#] The educational effects of experiments using polypyrrole to fabricate a rechargeable battery on chemistry education (TNCT) ○HIROKI, Kazuaki; KADOMI, Shio; HOSOE, Yusuke; TAKADA, Rikuto

Polymer Fuel Cell, TM

2PC-018[#] Making easy and low cost experimental kit of polymer electrolyte fuel cell. (Fac. of Edu., Tokyo Gakugei Univ.) ○HAYASHI, Yoshiya; IKUO, Akira; MASUDA, Yuya; OGAWA, Haruo

2PC-019 Influence of sphere size on the measurement of elementary charge using polystyrene microsphere (Hokkaido Univ. of Educ. Sapporo) ○NAKANO, Tomofumi; TAGUCHI, Satoshi

2PC-020 Visualization of the intermolecular interaction and the neutralization based on the quantum chemical calculations (Coll. Liberal Arts Sci., Kitasato Univ.) ○KOTA, Daigoku

2PC-021 Developing Teaching Materials for the University Experimental Lessons (The Univ. of Electro-Communications) ○OHASHI, Kazutaka

2PC-022 Development of environmental-benign teaching material; application for science fair with companies of chemistry (Fac. Edu., Kagawa Univ.) ○FUJIKAWA, Yuto; TAKAGI, Yumiko

2PC-023 The language problem facing the students from overseas in a faculty of science and engineering of the university for introductory science learning (Fac. Sci. Eng., Soka Univ.) ○ITO, Masato M.; SATO, Shinjiro

Physical Organic Chemistry Structures and Properties

Organic semiconductor

2PC-025[#] Synthesis and Properties of H-intact Thienoindigo Derivatives (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○ASHIZAWA, Minoru; HASEGAWA, Tsukasa; YOO, Dongho; KAWAMOTO, Tadashi; MATSUMOTO, Hidetoshi; MORI, Takehiko

2PC-026 Fabrication and Characterization of Organic Field-Effect Transistors Using DF-ET and Its Alkyl Derivatives (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○TAKELI, Koki; KADOYA, Tomofumi; TAJIMA, Hiroyuki; YAMADA, Jun-ichi

2PC-027 Anomalous dielectric response in band insulator (BEDT-TTF)₂(ReO₄)₂ (Fac. Eng., Tokyo Polytechnic Univ.; CIMO-S, IMS) ○KARINO, Kohei; URUICHI, Mikio; HIEJIMA, Toshihiro

2PC-028 Solid Electronic Properties of Boron-Chelating Bithiophene Derivatives Having n-Type Semiconductor Abilities (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○SUZUKI, Keiji; ONO, Katsuhiko

2PC-029 Synthesis and physical properties of TIPSpentacene derivatives towards oligomerization (Grad. Sch. Mat. Sci., NAIST) ○KAWANO, Koki; HAYASHI, Hironobu; YAMADA, Hiroko

Radical

2PC-030 Evaluation of the property of the Aromatic Units by Probing Exchange Interaction between Biradicals (Grad. Sch. Eng., Kyoto Univ.) ○MIZOKAWA, Tsubasa; HIGASHIGUCHI, Kenji; MATSUDA, Kenji

2PC-031[#] Synthesis and properties of biradical compounds from spiro-junctioned biacridines with tert-butyl groups (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications; Sch. Sci., Kitasato Univ.) KANETOMO, Takuya; ○ICHIHASHI, Kana; MAZAKI, Yasuhiro; ISHIDA, Takayuki

2PC-032[#] Physical and Chemical Properties of Mono- and Biradical Derivatives of 2-Spirocyclopentyl-Imidazolidine (Grad. Sch. Sci., Hiroshima Univ.) ○GAO, Yanli; MARYUNINA, Kseniya; NISHIHARA, Sadafumi; INOUE, Katsuya

2PC-033 Synthesis and Magnetic Properties of Tetramethylisoindolineoxy Derivatives with Nitroxide Radicals (Fac. Sci. Tech., Keio Univ.) ○TSUCHIYA, Naoya; TAKAHASHI, Yusuke; MIURA, Youhei; YOSHIOKA, Naoki

2PC-034[#] Synthesis and physicochemical properties of hetero biradical derivatives containing spin localized isoindolineoxy radical (Grad. Sch. Sci. Tech., Keio Univ.) ○SHIMIZU, Yuki; TAKAHASHI, Yusuke; MIURA, Youhei; YOSHIOKA, Naoki

2PC-035[#] Spontaneous Chiral Resolution of Heterospin Complexes Based on Ethylphenyl-Substituted Nitronyl Nitroxide (Fac. Sci., Hiroshima Univ.) ○MURAKAMI, Masaki; MORITA, Natsuki; KITAO, Hiroki; SATO, Soya; NISHIHARA, Sadafumi; MARYUNINA, Kseniya; INOUE, Katsuya

2PC-036 Design and synthesis of verdazyl-based biradical derivatives with ground triplet state (Fac. Sci. Tech., Keio Univ.) ○OSHIMA, Riku; SATOU, Takuho; MIURA, Youhei; YOSHIOKA, Naoki

2PC-037[#] Synthesis and Properties of Oligo(3,4-ethylenedioxythiophene) Radical Cation Substituted with Nitronyl Nitroxide (Grad. Sch. Sci., Osaka City Univ.; Grad. Sch. Eng. Sci., Osaka Univ.; Grad. Sch. Sci. Eng., TMU) ○TAHARA, Takuma; SUZUKI, Shuichi; KOZAKI, Masatoshi; NISHIHARA, Tohru; OKADA, Keiji

2PC-038[#] Synthesis, structure and property of heterocycle-substituted nitroxide radical that containing hydrogen-bonding site. (Coll. Hum. Sci., Nihon Univ.) ○MATSUI, Kazuki; IWAHORI, Fumiyasu

Photophysical properties

2PC-039 Synthesis and Characterization of Novel Photon Energy-Converting Dyads Linked by Adamantane (Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○KAWAOKA, Shuhei; KANO, Masaya; MATSUI, Yasunori; OHTA, Eisuke; OGAKI, Takuya; IKEDA, Hiroshi

2PC-040[#] Studies on the photo-excited triplet state of [6]helicene by high sensitive and time-resolve Circular Dichroism (CD) measurement (IMRAM, Tohoku Univ.) ○KIKUCHI, Yota; SATO, Takehito; ARAKI, Yasuyuki; SAKAMOTO, Seiji; MORI, Tadashi; WADA, Takehiko

2PC-041 Evaluation of up-conversion based on triplet-triplet annihilation of tetraphenyltetraazobenzoporphyrin (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○NAGATA, Masaki; KAWAI, Hideki

2PC-042 Photophysical properties of up-conversion based on triplet-triplet annihilation in polymeric micelles (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○HARADA, Shinji; KAWAI, Hideki

2PC-043 Photoexcited States of a Photostabilizer, Diethylhexyl 2,6-Naphtha-

- late (Corapan TQ) (Grad. Fac. Eng., Yokohama Natl. Univ.) ○SHIMIZU, Ryohei; YAGI, Mikio; KIKUCHI, Azusa
- 2PC-044** Triplet-Triplet Energy Transfer between UV Absorbers in Solutions at Room Temperature (Grad. Fac. Eng., Yokohama Natl. Univ.) ○MATSUMOTO, Suzuna; YAGI, Mikio; KIKUCHI, Azusa
- 2PC-045** Development of cholesteric gelator using anthracene as an aromatic unit (Chiba Inst. of Tech.) ○KOBAYASHI, Yuki; SHIMASAKI, Tosiaki; TERAMOTO, Naozumi; SHIBATA, Mitsuhiro
- 2PC-046[#]** One Step Synthesis of Solution-Processable Organic Materials with Solid-State Fluorescence Properties (IIS, The Univ. of Tokyo; Grad. Sch. Mat. Sci., NAIST) ○HASHIMA, Yuki; ISHIKAWA, Yasuaki; URAOKA, Yukiharu; MINAMI, Tsuyoshi
- 2PC-047[#]** Aggregation-Induced Emission Enhancement and Solid-state fluorescence of Pentaarylimidazolium Salts (Urban Environmental Sci., TMU) KIMURA, Sachio; ○SATO, Kiyoshi; YAMAGUCHI, Motowo
- 2PC-048** Fluorescence Behavior of *N,N'*-Bis(1-pyrenylmethyl)-diaz-18-crown-6 (Fac. Eng., Hokkai Gakuen Univ.) ○KUBO, Kanji
- 2PC-049** Carboxylic Acid Recognition of a Diamidine Having 1,8-Diphenyl-naphthalene Unit in Protic Solvents (KIT) ○HOSHIMURA, Yuki; MATOBA, Keisuke; KUSUKAWA, Takahiro
- 2PC-050** Carboxylic Acid Recognition of a Diamidine Having a 1,8-Diarylanthracene Unit (KIT) ○KOJIMA, Yusuke; ARAMOTO, Hiroki; KUSUKAWA, Takahiro
- 2PC-051** Laterally pi-extended Helical Polycyclic Aromatic Hydrocarbons (HPAHs): Synthesis and Theoretical Calculations of Photophysical Properties (Grad. Sch. Eng., Kyoto Univ.) ○HIROSE, Takashi; UCHIDA, Yosuke; NAKAKUKI, Yusuke; MATSUDA, Kenji
- 2PC-052[#]** Photostability of D- π -A Type Organoboron Fluorophores (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○ITO, Masato; SUZUKI, Naoya; YAMAGUCHI, Shigehiro
- 2PC-053[#]** Mechanism of novel intramolecular excimer emission by di (1-pyrenyl) silane and di (1-pyrenyl) methane derivatives (Grad. Sch. Sci., Eng., Yamagata Univ.) ○KAWAMURA, Yui; SATO, Keisuke; KONDO, Shin-ichi
- 2PC-054** Synthesis of formyl-substituted diphenylidhydroacridine derivatives and their fluorescence property (Fac. Sci. Tech., Keio Univ.) ○NUNOI, Alisa; MIURA, Youhei; YOSHIOKA, Naoki
- 2PC-055[#]** Synthesis of a pyridinium derivative of naphthalimide with extended π -conjugation and its interaction with DNA (Coll. Sci. Tech., Nihon Univ.) ○MIHARA, Junichi; OTSUKI, Joe; YAMANO, Minori; SUGAWA, Kosuke
- 2PC-056[#]** Thermo- and solvatochromic behaviors of flavin dimer derivatives. (Grad. Sch. Eng. Sci., Osaka Univ.) ○LI, Zimeng; KAWAMORITA, Soichiro; NAOTA, Takeshi
- 2PC-057[#]** Structure-photosensitizing property relationship of biphenyl derivatives (Grad. Sch. Biosci. Biotech., Tokyo Tech.) ○ZHAO, Yijing; TSUGA, Yuki; KANAMORI, Takashi; YUASA, Hideya
- 2PC-058[#]** Syntheses and fluorescence properties of 4-and 6-substituted 2-aminoquinazolines (Sci. Tec., Sophia Univ.) ○FUJIMAKI, Yuki; OHTAKE, Ryo; DOAN, Thu-hong; WITULSKI, Bernhard; SUZUKI, Yumiko
- 2PC-059[#]** Solid State Optical Properties and DFT Calculations of Near-Infrared Light Absorbing Alkylthio Substituted 2,5-Di(1,3-dithiol-2-ylidene)-1,3-dithiolane-4-thione Derivatives (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○UEDA, Kazumasa; KUSANAGI, Hiroki; CHUJO, Koki
- 2PC-060** Synthesis of Triarylamine Derivatives with Luminescence Properties and Investigation of Triarylamine Effect Using Strontium Reagent (Fac. Integrated Arts Sci., Tokushima Univ.) ○NAGAOKA, Gen; OHMURA, Satoshi; UENO, Masaharu; MIYOSHI, Norikazu
- 2PC-061[#]** Synthesis and Properties of π -Conjugated Molecules of Imidazolium Salts containing Fluorophore (Osaka Kyoiku Univ.) ○HORI, Kazushige; UCHIDA, Kazuki; TAKAGI, Kazunori; TANI, Keita
- 2PC-062[#]** Influence of Substituent in Donor- π -acceptor Compounds Consisted of Mono-substituted Benzene Ring as an Acceptor on Mechanochromism (Grad. Sch. Eng., Chiba Univ.) MATSUMOTO, Shoji; ○SHIMIZU, Ryosuke; ITO, Yuji; AKAZOME, Motohiro
- 2PC-063** Systematic Study for the Mechanochromic Luminescence Found in Donor-acceptor Dye Library (KNCT) ○TANAKA, Honoka; MATSUMOTO, Taisuke; AIZAWA, Naoya; YASUDA, Takuma; ISHI-I, Tsutomu
- 2PC-064[#]** Rational Design of Novel Fluorescent 1,2,4,6-Tetraphenylpyridinium Derivatives (Urban Environmental Sci., TMU) ○NOZAKI, Kengo; TAKEI, Yuriko; YAMAGUCHI, Motowo; SATO, Kiyoshi
- 2PC-065** Synthesis and Properties of Oxygen-bridged [3.3.5](3,6,9)Carbazolophane Derivatives (Osaka Kyoiku Univ.) ○MIYANAGA, Kanae; HORI, Kazushige; KUBONO, Koji; TANI, Fumito; GOTOU, Kenta; TANI, Keita
- 2PC-066** Photophysical Properties and Optical Resolution of Asymmetrically Bridged Partial Overlap Carbazolophane Derivatives (Osaka Kyoiku Univ.) ○NAKANO, Masaya; MASAKI, Miyuki; KUBONO, Koji; HORI, Kazushige; MORI, Tadashi; GOTO, Kenta; TANI, Fumito; TANI, Keita
- 2PC-067** Creation of Optically Active Phospho/Tb Hybrid Luminescence and its Circularly Polarized Luminescence (CPL) Properties (Fac. Sci. Eng., Kindai Univ.; Grad. Sch. Mat. Sci., NAIST) ○TANIGUCHI, Ayano; HARA, Nobuyuki; KOUNO, Yuki; FUJIKI, Michiya; IMAI, Yoshitane
- 2PC-068** Circularly polarized luminescence (CPL) property of chiral amphiphilic binaphthyl organic fluorophore (Fac. Sci. Eng., Kindai Univ.; Grad. Sch. Mat. Sci., NAIST) ○KITATOUBE, Takumi; HARA, Nobuyuki; FUJIKI, Michiya; IMAI, Yoshitane
- 2PC-069[#]** Theoretical study on absorption wavelength control and improvement of light fastness of β -carotene using solid acid. (Grad. Sch. Eng., Kyushu Univ.) ○HIROSAWA, Nobuyuki; SHIOTA, Yoshihito; KOHNO, Yoshiumi; ASABA, Ryuma; YOSHIZAWA, Kazunari

Novel pi-conjugated system

- 2PC-070[#]** Development of Reverse Photochromic Molecule with Synchronized Phenomenon (Fac. Sci., Hiroshima Univ.) ○TAKEUCHI, Shota; HATANO, Sayaka; ABE, Manabu
- 2PC-071** Development of ionic amorphous to construct hybrid materials with functional molecules (Fac. Eng., Sojo Univ.) NAGAHARA, Kosuke; ○KANADA, Takuya
- 2PC-072[#]** Synthesis and Properties of 9,10-Bis(1,3-dithiol-2-ylidene)-9,10-dihydroanthracene Derivatives Bearing Nitrogen-Containing Heterocyclic Groups at the 1,8-Positions (Fac. Sci., Shinshu Univ.) ○KATO, Rei; OHTA, Akira
- 2PC-073** Structural and physical properties of molecular conductors derived from chiral and racemic forms of DMDHDT-TTP (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○GOHO, Katsuhito; KADOYA, Tomofumi; YAMADA, Jun-ichi
- 2PC-074** Synthesis and properties of cyclohexene-extended TTPY dimer linked by a methylenedithio group (Grad. Sch. Sci., Eng., Ehime Univ.; RU: PGeS, Ehime Univ.) ○KUME, Mikako; HOSOI, Ken; TOKUNAGA, Saki; SHIRAHATA, Takashi; YAO, Masaru; MISAKI, Yohji
- 2PC-075** Properties of Radical Cations of 3,4-Dioxithiophene Co-oligomers (Grad. Sch. Sci. Eng., TMU) ○SOTOME, Yusuke; NOMURA, Kotohiro; NISHINAGA, Tohru
- 2PC-076** Synthesis and Analysis of Quinone Derivatives Having Two Imidazole Ligands (Fac. Sci., TUS; PRESTO, JST) ○ISEKI, Shuta; YUASA, Junpei
- 2PC-077** Synthesis of α -diketone type precursors of unsubstituted heptacene (Grad. Sch. Mat. Sci., NAIST) ○HIEDA, Nao; HAYASHI, Hironobu; YAMADA, Hiroko
- 2PC-078** Synthesis of water-soluble rotaxanes with photoisomerization units and its ratchet motion (Dept. Mat. Sci., Wakayama Nat. Coll. of Tech.) OKADA, Keisuke; ○KAWAJI, Takatoshi
- 2PC-079** Synthesis of Conformationally Flexible Fluorophore that has ESIPY substructures (Dep. Chem., Sch. Sci., Kyoto Univ.; PRESTO, JST) ○KUSHIDA, Aki; LIU, Pengpeng; SAITO, Shohei; OSUKA, Atsuhiko
- 2PC-080[#]** Synthesis and Properties of Asymmetric Bis(trioxotriphenylamine) Derivatives (Grad. Sch. Sci., Osaka City Univ.; Sch. Eng. Sci., Osaka Univ.) ○SHIMODE, Kento; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji
- 2PC-081** Synthesis of a Trioxotriangulene Derivative Having Phosphonic Acid Groups (Fac. Eng., Aichi Inst. of Tech.) ○TSUBOI, Syouki; MURATA, Tsuyoshi; MORITA, Yasushi
- 2PC-082** Synthesis of Nitrogen Substituted Trioxotriangulene Derivatives (Fac. Eng., Aichi Inst. of Tech.) ○SEKO, Azusa; MURATA, Tsuyoshi; MORIYA, Yasushi
- 2PC-083** Structure and Properties of Phenazine Derivatives Bearing pi-conjugated Systems Extended by Fused Aromatic Rings and Aryl Groups (Grad. Sch. Sci. Eng., Univ. of Toyama) ○YAMAMOTO, Kensuke; HAYASHI, Naoto; YOSHINO, Junro; HIGUCHI, Hiroyuki
- 2PC-084** Synthesis and photo-electrochemical properties of star-shaped trifluorenylbenzene derivatives terminated with electron donor or electron withdrawing group (Chiba Inst. of Tech.) ○SUZUKI, Shuhei; SHIMASAKI, Toshiaki; SHIBATA, Mitsuhiro; TERAMOTO, Naozumi
- 2PC-085** Synthesis and Properties of Dibenzoheterol Trimer (Chiba Inst. of Tech.) ○IWASAWA, Ryosuke; SHIMASAKI, Toshiaki; SHIBATA, Mitsuhiro; TERAMOTO, Naozumi
- 2PC-086[#]** Preparation and physical properties of *N*-pyridyl substituted phthalimide compounds (Sch. Eng., Univ. of Hyogo) ○HASHIMOTO, Akitō; KITA, Yasuyuki; NISHIDA, Jun-ichi; HIRAO, Yasukazu; KAWASE, Takeshi
- 2PC-087** Reactions of 9,10-dimesitylanthracene derivatives with benzene (Sch. Sci., Kitasato Univ.; Sch. Sci., Tokyo Tech.) ○SEKIKAWA, Hiroshi; TSURUMAKI, Eiji; TOYOTA, Shinji
- 2PC-088** Synthesis of rubicene derivatives by oxidation reactions of 9,10-diphenylanthracenes (Sch. Sci., Kitasato Univ.; Sch. Sci., Tokyo Tech.) ○KAWAMURA, Masahiko; TSURUMAKI, Eiji; TOYOTA, Shinji
- 2PC-089[#]** Synthesis and property of macrocyclic fluorene 15-mer (Grad. Sch. Med., Eng., Univ. of Yamanashi) AMANO, Tatsuya; ○OGAWA, Kazuya
- 2PC-090** Syntheses and optical properties of cyclic and linear carbazole oligomers (Grad. Sch. Med., Eng., Univ. of Yamanashi) ○TANAKA, Shohei; OGAWA, Kazuya
- 2PC-091[#]** Synthesis and physical properties of bianthryl derivatives with extended π -conjugation units (Grad. Sch. Eng., Univ. of Hyogo) ○OHTA, Katsutoshi; NISHIDA, Jun-ichi; KAWASE, Takeshi
- 2PC-092[#]** Synthesis of cyclic carbazole derivatives by using aldol reaction (Sch. Eng., Univ. of Hyogo) ○TSUIJI, Tomoya; NISHIDA, Jun-ichi; SHIOKI, Rumi; KAWASE, Takeshi
- 2PC-093[#]** Synthesis of *s*-indacene derivatives toward the investigation of solid state properties (Grad. Sch. Sci., Osaka Univ.) ○TANAKA, Yuki;

- NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi
- 2PC-094[#]** Syntheses and properties of new charge transfer complexes of hexahydroxytriphenylene and hexaazatriphenylene derivatives (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○NAKASHIMA, Kensuke; TANAKA, Daisuke
- 2PC-095** Synthetic Study on Phenalenyl Radical Derivative with Trifluoromethyl Groups (School of Science, Osaka University) ○TERADA, Kazuki; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi
- 2PC-096** Synthesis and properties of diindenotetracene-dimer (Grad. Sch. Eng., The Univ. of Shiga Pref.; Grad. Sch. Eng., Univ. of Hyogo; Grad. Sch. Eng., Nagoya Inst. of Tech.) ○TSUJI, Kohei; KAWASE, Takeshi; NISHIDA, Jun-ichi; ONO, Katsuhiko; KITAMURA, Chitoshi
- 2PC-097** Synthesis and structures of acyclic oligomers consisting of directly attached 1,8-anthrylene units. (Fac. of Sci., Okayama Univ. of Sci.) ○SAIBARA, Toyooki; IWANAGA, Tetsuo; TOYOTA, Shinji
- 2PC-098** Synthesis and Properties of Anthracene Based Cyclic Pi Cluster (Sch. Sci., Osaka Univ.) ○KISAKA, Kazuki; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi
- 2PC-099** Synthesis of new heliceneoid compounds including thiophene and azulenes (IMCE, Kyushu Univ.) ○TERAOKA, Takaaki; MURAFUJI, Toshihiro; TANI, Fumito
- 2PC-100** Synthesis of a new heliceneoid compound including orthoquinone and azulenes (IMCE, Kyushu Univ.) ○KAJIMURA, Hiroto; MURAFUJI, Toshihiro; TANI, Fumito
- 2PC-101[#]** Synthesis and Properties of Novel Overcrowded Quinone Which Have the Interplay Between Steric Effect and Aromatic Stabilization (Grad. Sch. Sci., Osaka Univ.) ○SUZUKI, Takeshi; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi
- 2PC-102** Reaction optimization to the core region of Polycyclic Aromatic Hydrocarbons toward the synthesis of peripentacene (Grad. Sch. Sci., Osaka Univ.) ○OHKITA, Ryota; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi
- 2PC-103[#]** Preparation of metacyclophanes consisting of the stilbene unit and their transannular interaction. (Grad. Sch. Eng., KIT) ○MIYAMOTO, Daisuke; MORIGUCHI, Tetsuji; TSUGE, Akihiko
- 2PC-104** Synthesis and Electronic Properties of Naphthalene-Bridged Phenol Dimer (Sch. Sci., Osaka Univ.) ○OKUDA, Tomoki; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi
- 2PC-105** Synthesis and Properties of Curved Molecules Having Two Phosphorus Atoms (Sch. Sci. Eng., Univ. of Tsukuba) ○TSUKUDA, Shinnosuke; HONGO, Daigo; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 2PC-106** Synthesis of Helicene-like Molecules via the C-S Bond Cleavage of Bowl-shaped Molecules (Sch. Sci. Eng., Univ. of Tsukuba) ○HIMORI, Sou; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 2PC-107** Synthesis of novel porphyrinoids fused with azulenes (IMCE, Kyushu Univ.) ○KAWANO, Yuta; KOIDE, Taro; MURAFUJI, Toshihiro; TANI, Fumito
- 2PC-108[#]** Synthesis of Macrocyclic Molecules with Twisted Porphyrins(2.1.2.1) (Grad. Sch. Mat. Sci., NAIST) ○FURUKAWA, Wataru; KUZUHARA, Daiki; ARATANI, Naoki; YAMADA, Hiroko
- 2PC-109** Studies on the Synthesis of Multi-fluorenyl Radical Molecules (Sch. Sci., Osaka Univ.) ○MORIWAKI, Mayu; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi
- 2PC-110** Molecular Structures of Tetracyclopenta[def,jkl,qpr,vwx]tetraphenylene Derivatives (Grad. Sch. Eng. Sci., Osaka Univ.) ○KUROGI, Yusuke; MIYOSHI, Hirokazu; HISAKI, Ichiro; TOBE, Yoshito
- 2PC-111** Generation and Characterization of Anionic Species of a Ethynyl-substituted Tetracyclopenta[def,jkl,pqr,vwx]tetraphenylene Derivative (Grad. Sch. Eng. Sci., Osaka Univ.) ○MIYOSHI, Hirokazu; KUROGI, Yusuke; TOBE, Yoshito

porphyrin

- 2PC-112** STM Investigation of 2-D Self-Assembly of Porphyrin Derivatives Having Amide Group toward Quantitative Evaluation of Molecular Conductance (Sch. Eng., Kyoto Univ.) ○ADACHI, Kenya; HIROSE, Takashi; MATSUDA, Kenji
- 2PC-113[#]** Synthesis of subporphyrins with pyridine ligands and an approach to supramolecular metal complexes (Grad. Sch. Sci., The Univ. of Tokyo) ○INAMASU, Rena; UBE, Hitoshi; SHIONOYA, Mitsuhiko
- 2PC-114** Introduction of hydrophobic porphyrin into protein by cyclodextrin. (Fac. Sci., Nara Women's Univ.) ○NAGATA, Reika; TAKASHIMA, Hiroshi
- 2PC-115** Synthetic Study of Cyclic Bisporphyrins Bridged by 2,2'-Bipyridine (TUS) ○ITO, Sayumi; KINBARA, Yuho; KURAMOCHI, Yusuke; SATAKE, Akiharu
- 2PC-116[#]** Synthesis of the Allosteric Receptor Containing Fixed and Flexible Shielding Units and a Recognition Site for a Stimulus Molecule (Grad. Sch. Sci., Osaka City Univ.) ○OKAMOTO, Chisato; SUZUKI, Shuichi; OKADA, Keiji; KOZAKI, Masatoshi
- 2PC-117** Optical properties of synthetic chlorophyll derivatives connected with amide bond (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○TATEBE, Tomohiro; TAMIYAKI, Hitoshi
- 2PC-118[#]** Synthesis of oxaporphyrin analogues (Grad. Sch. Eng., Kyushu

- Univ.) ○NISHIYAMA, Akihide; FURUTA, Hiroyuki; SHIMIZU, Soji
- 2PC-119** Synthesis and Properties of Triarylboranes Bearing Porphyrin Moieties by Utilizing Huisgen Cycloaddition (Grad. Sch. Sci. Eng., Univ. of Toyama) ○HORIE, Miki; YOSHINO, Junro; HAYASHI, Naoto; HIGUCHI, Hiroyuki
- 2PC-120** Synthesis of TTF-annelated phthalocyanine analogues and their redox properties (Grad. Sch. Eng., Kyushu Univ.) ○HIEIDA, Taito; FURUTA, Hiroyuki; SHIMIZU, Soji
- 2PC-121[#]** Synthesis and Properties of the Dendrimeric Trimer Containing a Porphyrin Core in a Middle Dendrimer (Fac. Sci., Osaka City Univ.) ○AKISADA, Mami; KIMURA, Ryo; SUZUKI, Shuichi; OKADA, Keiji; KOZAKI, Masatoshi
- 2PC-122[#]** Synthesis of π -Conjugated Arrays using *meso*-Diethynyl-substituted Doubly N-Confused Dioxohexaphyrin (Fac. Eng., Kyushu Univ.) ○NAKAMURA, Yuma; SHIMOMURA, Keito; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 2PC-123[#]** Synthesis and Photophysical Properties of Peripheral Modified Doubly N-Confused Hexaphyrin Bis-Palladium Complexes (Fac. Eng., Kyushu Univ.) ○TOMIHAMA, Daisuke; OGASAHARA, Koki; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 2PC-124[#]** Synthesis of Dinaphthosubtriazachlorin and its Chiroptical Properties (Grad. Sch. Eng., Kyushu Univ.) ○YEMEI, Wang; AKITO, Miura; HIROYUKI, Furuta; NAGAO, Kobayashi; SOJI, Shimizu

Molecular recognition

- 2PC-125** Synthesis of Anthracene Derivative Having Two Imidazole Ligands and Its Optical Characteristics (Fac. Sci., TUS; PRESTO, JST) ○NONOMURA, Kohei; YUASA, Junpei
- 2PC-126[#]** Synthesis and characterization of calix[4]arene-based extractants for selective extraction of Platinum group metals from leach liquors of automotive catalysts (Akita Univ.) YAMADA, Manabu; ○KANETA, Yu; KONDO, Yoshihiko; AKIBA, Uichi; FUJIWARA, Kenshu
- 2PC-127[#]** Comparative Study on Palladium(II) Extraction from Automotive Catalysts Using Thioamide-Modified Acyclic and Cyclic Extractants (Akita Univ.) ○YAMADA, Manabu; MUNIYAPPAN, Rajjivgandhi; KANETA, Yu; KIMURA, Nozomi
- 2PC-128** Synthesis of Aromatic Compounds having imidazole ligands through ethynyl spacers and Their Complex Formation with Zinc Ion. (Fac. Sci., TUS; PRESTO, JST) ○MIYAZAWA, Haruka; YUASA, Junpei
- 2PC-129** Withdrawn
- 2PC-130** Effect of Intramolecular Hydrogen Bond on the Emission Property of Indolylbenzothiadiazole Derivative (Grad. Sch. Eng., Yokohama Natl. Univ.) ITO, Suguru; ○MIYAZAKI, Daiki; TAGUCHI, Tomohiro; ASAMI, Masatoshi
- 2PC-131** Study on physical properties, an ability to produce hydrogen, and an effect of stability by anchor groups in a dye-sensitized photocatalytic hydrogen production in water medium (I₂CNER, Kyushu Univ.) ○WATANABE, Motonori; HAGIWARA, Hidehisa; IDA, Shintaro; ISHIHARA, Tatsumi
- 2PC-132** Preparation and properties of quaternized promazine and its S-oxide analogue (Nagoya Municipal Industrial Research Institute; Lab. Chem. Life Sci., Tokyo Tech.) ○HAYASHI, Hideki; KOIZUMI, Take-aki
- 2PC-133** The new molecular seesaw balances and the evaluation of cation-pi interaction (Department of Chemistry, Ochanomizu University) ○OMATA, Riko; YAMADA, Shinji
- 2PC-134[#]** Ratiometric sensing of chiral carboxylic anions by receptors bearing amino acids residues as recognition sites. (Grad. Sch. Sci., Eng., Yamagata Univ.) ○SATO, Keisuke; MATSUTA, Yuka; OSAWA, Kohei; KONDO, Shin-ichi
- 2PC-135[#]** Fluorescent Receptors Based on 5-Phenylethynylisophthalamide Derivatives (Fac. Sci., Yamagata Univ.) ○HIOKA, Jun; ENDO, Kimihiro; KONDO, Shin-ichi
- 2PC-136** Synthesis and cation recognition of a new cryptand based on 24-crown-8 ether. (OIT) ○AOYANAGI, Shigeki; MURAOKA, Masahiro; NAKATSUJI, Yohji
- 2PC-137** Complexation of Phenanthroline with Noncyclic Isophthalamide Derivatives and Synthesis of Rotaxane by Olefin Metathesis Clipping (OIT) MURAOKA, Masahiro; ○TANAKA, Yuta; NAKATSUJI, Yohji
- 2PC-138** Allosteric Property of Cyclen-based Cylindrical Cryptands/Ag⁺ Complexes and Their Dynamics (Fac. Sci., Toho Univ.) ○KAMO, Shinji; NIHEI, Yutaro; MURASHIGE, Rina; IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PC-139** Synthesis of octaazacyclen derivatives and structures of their Ag⁺ complexes (Fac. Sci., Toho Univ.) ○IWASE, Miki; SHIRAI, Emiko; IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PC-140** Synthesis of Tris(Tetra-armed Cyclen) and Structure of its Ag⁺ Complex (Fac. Sci., Toho Univ.) ○NEMOTO, Fumika; IWASE, Miki; IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PC-141** Synthesis of Novel Cage-type γ -Cyclodextrin Dimers and Examination of Their Inclusion Ability (Sch. Eng., Osaka Univ.) ○IGUCHI, Hitomi; ITO, Shogo; KIDA, Toshiyuki
- 2PC-142** Anion Recognition Derived from Pyridinium Cations in Macrocycles (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○KARASUDA, Satoshi; ONO, Katsuhiko
- 2PC-143[#]** GC-SCD Method: Structural Analysis by Crystalline Sponge

- Method of Trace Amount Compounds Isolated from Preparative Gas Chromatography (Grad. Sch. Eng., The Univ. of Tokyo) ○FURUBAYASHI, Shumpei; KIKUCHI, Takashi; FUJITA, Makoto
- 2PC-144[#]** Synthesis and evaluation of absorption property in norbornene copolymer having 2,4-diamino-s-triazinyl group (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○MUKADEYAMA, Shimpei; WATANABE, Toshiyuki
- 2PC-145[#]** Iso-elution temperatures and homologous series for tetrachloro biphenyl isomers by a use of isothermal gas-chromatography with HT-8 column. (Grad. Sch. of Integrated Pharmaceutical and Nutritional, Univ. of Shizuoka) ○MAKINO, Masakazu; YAMADA, Kenta; JOZUKA, Kazuhiko; HUANG, Qiao
- 2PC-146[#]** Molecular Recognition of Chiral Carboxylic Acids with Transition Metal Complexes of a Pyridine-benzimidazole-based Ligand (Grad. Sch. Sci., Eng., Yamagata Univ.) ○ENOMOTO, Yuka; ZHAO, Shuang; KATAGIRI, Hiroshi
- 2PC-147[#]** Synthesis and properties of a rhombic cyclophane ligand with two bulky side chains (Grad. Sch. Sci., The Univ. of Tokyo) ○OU, Jugai; TASHIRO, Shohei; SHIONOYA, Mitsuhiko
- 2PC-148** One-directional movement of crown ether on polyester and its single molecule observation (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○FUKUMOTO, Takeshi; KIHARA, Nobuhiko
- 2PC-149** Synthesis and Chiral Induction of a Novel Helical Foldamer Composed of Dithienyl Ketone and Benzene (Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○KOGA, Soichiro; TANI, Shuichi; OGAKI, Takuya; OHTA, Eisuke; MATSUI, Yasunori; IKEDA, Hiroshi
- 2PC-150[#]** Synthesis and Properties of Redox-Responsive Molecular Tweezers with 15-Crown-5-ether Rings as Guest Recognition Sites (Fac. Sci., Shinshu Univ.) ○TAKEDA, Takumi; SANO, Shin; OHTA, Akira

Supramolecular chemistry

- 2PC-151** Construction of Two Dimensional Porous Network Equipped with Oligoether Units and Guest Co-Adsorption in the Pores (Grad. Sch. Eng. Sci., Osaka Univ.) ○IKEDA, Motoki; IRITANI, Kohei; TAHARA, Kazukuni; TOBE, Yoshito
- 2PC-152** Preparation of Spiroborate-type Host Bearing Photofunctionalities (Konan Univ.) ○KITAI, Takashi; DANJO, Hiroshi
- 2PC-153** Construction of photo-energy harvesting system on the bases of semi-artificial branched polysaccharide (Fac. Eng., Sojo Univ.) ○KUBO, Miki; KAWAUCHI, Tomoko; SHINKAI, Seiji; TAMARU, Shun-ichi
- 2PC-154** Preparation and properties of tweezer-shaped organogelators (Grad. Sch. Eng., KIT) ○HAMAMATSU, Chiaki; MITSUMOTO, Keiichi; MORIGUCHI, Tetsuji; TSUGE, Akihiko
- 2PC-155** Conformational Properties of Helical Aromatic Oligoamides with Cavity (Grad. Sch. Of Humanities and Sci., Ochanomizu Univ.) ○WARASHINA, Mirei; URUSHIBARA, Ko; MASU, Hyuma; MORI, Hirotohi; AZUMAYA, Isao; TANATANI, Aya
- 2PC-156[#]** Design and Synthesis of Large Cyclic Strained Oligoamide (Grad. Sch. Of Humanities and Sci., Ochanomizu Univ.; IECB) ○URUSHIBARA, Ko; FERRAND, Yann; KAUFFMANN, Brice; TANATANI, Aya; HUC, Ivan
- 2PC-157[#]** Free Energy Calculation for Isomerization Reaction of Cyclophanes Using DC-DFTB-MD (Sch. Advanced Sci. Eng., Waseda Univ.) ○HUANG, Yicong; NISHIMURA, Yoshifumi; ONO, Junichi; MIYASHITA, Yusuke; KANOMATA, Nobuhiko; NAKAI, Hiromi
- 2PC-158** Enantioselective complexation of optically pure rotaxanes having chirality specific to rotaxane structure with chiral amines (Sch. Eng. Sci., Osaka Univ.) ○HIROSE, Keiji; ○UEDA, Shota; UMEZAKI, Shota; TSUDA, Kyousuke; TOBE, Yoshito
- 2PC-159[#]** Encapsulation of coumarins within self-assembled M₂₀L₈ coordination capsule (Fac. Eng., The Univ. of Tokyo) ○YAGI, Hiroki; WANG, Shitao; SAWADA, Tomohisa; FUJITA, Makoto
- 2PC-160** Synthesis and Self-Assembly of Azulene-Inserted Borylpyridine (Fac. Health Sci., SUMS; Grad. Sch. Eng., Mie Univ.) ○WAKABAYASHI, Shigeharu; KAWAUCHI, Mayu; SHIMIZU, Makoto
- 2PC-161** Preparation and Property of Click Reactive Fullerene Derivative/ γ -cyclodextrin Complexes (Grad. Sch. Eng., Hiroshima Univ.) ○KUBO, Atsuki; SUGIKAWA, Kouta; UEDA, Masafumi; IKEDA, Atsushi
- 2PC-162[#]** Synthesis of a Tetrahedral Supramolecule Composed of Triple-helix Ru Complex Units (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TIMS, Univ. of Tsukuba) ○MUTO, Keita; KIMURA, Hikaru; NAKAMURA, Takashi; NABESHIMA, Tatsuya
- 2PC-163[#]** Synthesis of Macrocyclic BODIPY Tetramer and Pentamer (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TIMS, Univ. of Tsukuba) ○HOJO, Tomohiro; YAMAGUCHI, Gento; NAKAMURA, Takashi; NABESHIMA, Tatsuya
- 2PC-164[#]** Self-assembly Process of a Pd₂L₄ Capsule Complex with a Ditopic Ligand Bearing Anthracene Panels (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KAI, Shumpei; NAKAGAWA, Masanori; LI, Xin; YAMASHINA, Masahiro; KOJIMA, Tatsuo; YOSHIZAWA, Michito; HIRAOKA, Shuichi
- 2PC-165[#]** Challenges for Synthesis of Larger M_nL_{2n}-type Spherical Complexes (Grad. Sch. Eng., The Univ. of Tokyo) ○YOSHIDA, Nobuhiko; FUJITA,

Daishi; FUJITA, Makoto

- 2PC-166** Spiroborate-type Molecular Connecting Module with Pyrenyl Groups: Preparation and Evaluation of Their Supramolecular Polymerization Behavior (Dept. Chem., Konan Univ.) ○SOTANI, Koichi; MASUDA, Yuhki; DANJO, Hiroshi
- 2PC-167[#]** Self-assembly of 4,4'-Bipyridyl-type Ligands with Pd(II) Ions (Grad. Sch. Eng., The Univ. of Tokyo) ○OFUKU, Masafumi; FUJITA, Daishi; FUJITA, Makoto
- 2PC-168** Development of the stimuli-responsive material on the bases of polysaccharides possessing molecular inclusion ability (Grad. Sch. Eng., Sojo Univ.) ○TANAKA, Aya; TAMARU, Shunichi; SHINKAI, Seiji
- 2PC-169** Preparation of Cyclic Spiroborates Bearing Pyridyl Groups (Dept. Chem., Konan Univ.) ○ASAI, Kohei; HAMAGUCHI, Masahiro; KAWAHATA, Masatoshi; DANJO, Hiroshi; YAMAGUCHI, Kentaro
- 2PC-170** Preparation of Supramolecular Nanotubes by Spiroborate-type Molecular Connecting Modules with Amide Groups. (Konan Univ.) ○KAMBARA, Keigo; DANJO, Hiroshi
- 2PC-171** Self-Assembly of Macrocyclic Imine from Naphthalene-Based C₂-Symmetric Chiral Diamine and Dialdehyde (Grad. Sch. Eng., Yokohama Natl. Univ.) ITO, Suguru; ○OKADA, Shiori; ASAMI, Masatoshi
- 2PC-172[#]** Kinetic Study on Self-assembly Process of Amphiphilic Diketopyrrolopyrrol Dyes (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○FUKAYA, Natsumi; OGI, Soichiro; YAMAGUCHI, Shigehiro
- 2PC-173[#]** Creation of peptide coordination nanotubes based on cross β -sheet (Grad. Sch. Eng., The Univ. of Tokyo) ○WU, Yueqiao; SAWADA, Tomohisa; FUJITA, Makoto
- 2PC-174[#]** Recognition of Various Aromatic Guests by Box-Type Supramolecular Hosts (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TIMS, Univ. of Tsukuba) ○SUZUKI, Sayuri; NAKAMURA, Takashi; NABESHIMA, Tatsuya
- 2PC-175** Development of β -1,3-glucan derivatives toward the detection and extermination of the pathogenic organisms (Grad. Sch. Eng., Sojo Univ.) ○KIMURA, Mai; TAMARU, Shunichi; SHINKAI, Seiji
- 2PC-176** Construction of new self-assembled supramolecular structures based on platinum(II)-alkyne complexes (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○YAMAMOTO, Shin-ichiro; SAKATA, Yoko; AKINE, Shigehisa
- 2PC-177** Development of ionic liquid/supramolecule nano-hybrid possessing dynamic function (Fac. Eng., Sojo Univ.) ○KURODA, Naofumi; TAMARU, Shun-ichi; SHINKAI, Seiji

Polymer

- 2PC-179** The Possibility of Trialkylborane as a General Initiator of Radical Polymerization (Tohoku Seikatsu Bunka Univ.) ○KANNO, Shuichi
- 2PC-180** Effect of Additives on the Radical Polymerization Initiated with Borane-triethylamine Complex (Artipatent Inc.) SUDA, Atsushi; ○KANNO, Shuichi
- 2PC-181[#]** Synthesis of poly(methyl methacrylate) incorporating cyclic selenide with redox activity. (Sch. Sci., Tokai Univ.) ○MAEDA, Takuya; IWAOKA, Michio
- 2PC-182** Synthesis of poly(sulfonylhydrazine) (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○HORIKE, Shiho; KIHARA, Nobuhiko
- 2PC-183** Development of versatile synthetic methods for the polymers containing phosphines in the main chain. (Grad. Sch. Sci., Eng., Ehime Univ.) ○WADA, Yuki; KUBOTA, Naoko; MIYOSHI, Syunji; OHTA, Hidetoshi; HAYASHI, Minoru
- 2PC-184** Synthesis of Phosphine-branched Dendrimers including Phosphine by a P-C Cross-Coupling Reaction (Grad. Sch. Sci., Eng., Ehime Univ.) ○FUJINAGA, Hajime; NAKAMURA, Shingo; KARIYAMA, Shinnosuke; OHTA, Hidetoshi; HAYASHI, Minoru
- 2PC-185[#]** Synthesis of Various Nano-objects via Polymerization-Induced Self-Assembly (Grad. Sch. Eng., Univ. of Fukui) ○SUDO, Masahiro; SUGIHARA, Shinji; IRIE, Satoshi; MAEDA, Yasushi
- 2PC-186** Synthesis and Characterization of Poly(3,6-dihydroxy-2,7-carbazole)s (Sch. Sci. Eng., Univ. of Tsukuba) ○ASO, Fumihiko; KAWASHIMA, Hidehisa; KIJIMA, Masashi
- 2PC-187** Synthesis and Catalytic Reaction Activity of Gold Nanoparticles/Diblock Ionomers (I) - Study on Reduction Method - (Sci. Tec., Sophia Univ.) ○INOUE, Hinako; FUJITA, Masahiro; TAKEOKA, Yuku; RIKUKAWA, Masahiro
- 2PC-188** The evaluation of P3HT main chain structure in polymer alloy (Hachinohe National College of Technology) ○SUGISAWA, Naoki; HIRAI, Azuma; FUKUMATSU, Takahiro; SAITO, Takayuki
- 2PC-189[#]** Smectic Liquid-Crystal Ordering induced through mixing Low-Molecular-Weight Liquid Crystals and Side-Chain Polymers (Grad. Sch. Eng., Oita Univ.; Fac. Eng., Oita Univ.) ○KAKO, Arata; NATA, Masanori; IWAMI, Yuku; UJIE, Seji
- 2PC-190[#]** Orientational Behavior of Reactive Liquid-Crystalline Polymers with Urethane Linkages (Fac. Eng., Oita Univ.) ○WATANABE, Taiki; NATA, Masanori; IWAMI, Yuku; TOMITAKA, Shiori; UJIE, Seiji
- 2PC-191** Syntheses of step- π -conjugated polymers and their application for photoenergy conversion systems(121)Synthesis of A, B-block type amphiphilic macromolecular wire (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○YOSHIDA, Keisuke; AOTA, Hiroyuki
- 2PC-192** Syntheses of step- π -conjugated polymers and their application for

- photoenergy conversion systems (122) Synthesis of narrow band gap polymer interacting with platinum colloid (Fac. Chem. Materials and Bioeng., Kansai Univ.) OIWAKURA, Yuki; AOTA, Hiroyuki
- 2PC-193** Syntheses of step- π -conjugated polymers and their application for photoenergy conversation systems (123) Synthesis of high-density charge storage polymer (Fac. Chem. Materials and Bioeng., Kansai Univ.) OMARUYAMA, Kota; AOTA, Hiroyuki
- 2PC-194** Display device development using metallosupramolecular polymers (Grad. Sch. Sci. Tech., Keio Univ.; NIMS) OKIGAWA, Daikichi; SUZUKI, Takahiro; SEINO, Yuki; HIGUCHI, Masayoshi; MAKI, Hideyuki
- 2PC-195** Mechanism Analysis of DNA Cleavage of Polymerized Transition Metal Complex (Grad. Sch. Chem. Sci. Technol., TUS) OKAWANA, Hiroki; KOZUMA, Daisuke; FUJIKURA, Hirofumi; MATSUKUMA, Daisuke; OTSUKA, Hidenori
- 2PC-196** Relation Between DNA Cleavage Ability and Anticancer Activity of Polymerized Transition Metal Complexes (Fac. Sci., TUS) OIJIRI, Kento; KOZUMA, Daisuke; FUJIKURA, Hirofumi; MATSUKUMA, Daisuke; OTSUKA, Hidenori
- 2PC-197** Antiproliferative Activity of Polymerized Transition Metal Complex with Anticancer Activity (Fac. Sci., TUS) OYAHAGI, Yuta; KOZUMA, Daisuke; FUJIKURA, Hirofumi; MATSUKUMA, Daisuke; OTSUKA, Hidenori
- 2PC-198[#]** Development of Manufacturing Processes for Highly Selective Phosphate-Binding Polymer TRK-390 (Pharmaceutical Laboratories, Toray Industries, Inc.) OMURAKAMI, Masaori; KANNO, Takami
- 2PC-199** Development of polymer membranes including host molecule for the musty odour component (Hachinohe National College of Technology) OSATOU, Nobuya; KIKUCHI, Yasuaki
- 2PC-200[#]** Structural change of water in temperature-responsive polymer hydrogel during heating process (Dept. of Sci. Tech., Meiji Univ.) OITO, Shintaro; IKEDA-FUKAZAWA, Tomoko
- 2PC-201[#]** Control of Self-Assembled Fibers in Aligned Liquid-Crystalline Fields (Grad. Sch. Eng., The Univ. of Tokyo) OYAMAGUCHI, Daisuke; YOSHIO, Masafumi; KATO, Takashi
- 2PC-202[#]** Ability of the swelling and shrinking in the temperature-responsive gel (Grad. Sch. Eng., KAIT) OMUNECHIKA, Ayumu; SAITO, Takashi
- 2PC-203[#]** Redox response behavior and physical properties of supramolecular materials with cyclodextrin and viologen derivatives (Sch. Sci., Osaka Univ.) OARAMOTO, Hikaru; TAKASHIMA, Yoshinori; HARADA, Akira; YAMAGUCHI, Hiroyasu
- 2PC-204** Preparation of supramolecular materials crosslinked by mobile crosslinking point and its physical property (Sch. Sci., Osaka Univ.) OIKURA, Ryohei; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 2PC-205[#]** Synthesis of Poly(2,7-carbazole)s Having Long Alkyl Chains at 4,9-positions and Their Liquid Crystalline Behavior (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OPENG, Wenli; KAWASHIMA, Hidehisa; KIJIMA, Masashi
- 2PC-206[#]** Highly efficient synthesis of carbonates from epoxides and CO₂ using poly(4-vinylphenol)/tetra-n-butylammonium iodide as catalyst (Grad. Sch. Sci., Eng., Saitama Univ.) OXIANGYONG, Wang; KOICHI, Kodama; TAKUJI, Hirose
- 2PC-207** Photophysical property of zinc porphyrin bound to the active site of chymotrypsin (Fac. Sci., Nara Women's Univ.) OKAGUCHI, Saki; TAKASHIMA, Hiroshi
- 2PC-208** Structural search of lipid nanodisc-forming amphiphilic random copolymers (Grad. Sch. Mat. Sci., NAIST) OINOUE, Masaya; KIKUCHI, Jun-ichi; YASUHARA, Kazuma
- 2PC-209** Supramolecular Asymmetric Photocyclization of Tropolone Mediated by Bovine Serum Albumin as Chiral Reaction Field (IMRAM, Tohoku Univ.) OFUJISHIRO, Yuya; TOYOOKA, Souta; OKUGI, Mitsuru; NISHIJIMA, Masaki; ARAKI, Yasuyuki; SAKAMOTO, Seiji; INOUE, Yoshihisa; WADA, Takehiko
- KOBATAKE, Seiya
- 3PA-005** Synthesis and light emission switching of quantum dots coated with diarylethene polymer (Grad. Sch. Eng., Osaka City Univ.) OYAMADA, Rie; KITAGAWA, Daichi; KOBATAKE, Seiya
- 3PA-006[#]** Strategy for establishment of negative photochromic molecules with the rational design (Fac. Sci., Hiroshima Univ.) OHATANO, Sayaka; SHIMOKAWA, Chie; ABE, Manabu
- 3PA-007** Ring-opening reaction of a diarylethene derivative with benzofuryl groups: Correlation between reactivity of the S₁ state and the higher excited state. (Sch. Eng. Sci., Osaka Univ.) OSEI, Ryosuke; NAGASAKA, Tatsuhiro; TACHII, Yuka; SOTOME, Hikaru; MIYASAKA, Hiroshi
- 3PA-008** Evaluation of nanoscopic structures in polymers by super-resolution microscopy with fluorescent diarylethene derivatives (Grad. Sch. Eng. Sci., Osaka Univ.) OFUJITA, Hajime; ITO, Syoji; MIYASAKA, Hiroshi; TAKEI, Satoshi; MORIMOTO, Masakazu; IRIE, Masahiro
- 3PA-009[#]** Photoinduced fluorescence quenching of nanoparticle colloids of diarylethene having benzothiophene moiety (Fac. Eng., Ehime Univ.) OTADA, Saori; ISHIBASHI, Yukihide; ASAH, Tsuyoshi
- 3PA-010** Synthesis of 1-thiazolyl or 1-thienyl-2-vinyl-2-phenylthiazole derivatives (National Institute of Technology, Niihama College; Hyogo Univ. of Teacher Educ.; Grad. Sch. Mat. Sci., NAIST) OTAKAMI, Shizuka; NISHIYAMA, Minoru; INOSHITA, Nanase; NIKURA, Maruya; HIGAKI, Mizuki; YAMAGUCHI, Tadatsugu; HASHIMOTO, Yuichiro; KAWAI, Tsuyoshi
- 3PA-011[#]** Steric Effects on Photochemical/Thermal Electrocyclization of 10 π -electron System (Grad. Sch. Eng., Yokohama Natl. Univ.) OYAMASHITA, Sho; NAKAGAWA, Tetsuya; YOKOYAMA, Yasushi
- 3PA-012** Fluorescence Correlation Spectroscopy using photo-switchable fluorophore (Grad. Sch. Eng. Sci., Osaka Univ.) OYASUDA, Naoaki; SETOURA, Kenji; ITO, Shouji; MORIMOTO, Masakazu; IRIE, Masahiro; MIYASAKA, Hiroshi
- 3PA-013[#]** Fluorescent solvatochromic properties of diphenylvinylbiphenyls bearing nitro group (RCPT, AIST) OTAKAHASHI, Nobutaka; FUKUDA, Takashi; MIYAZAWA, Akira; SATOU, Hiroyoshi; KUWANO, Satoko; KATO, Shin-ichiro
- 3PA-014** Excitation of lanthanide ions with light emissive compounds and their optical properties (Fac. Eng., Kanagawa Univ.) OORISAKU, Keiko; KODAMA, Takuya; IWAKURA, Izumi
- 3PA-015** Aggregation-Controlled Emission from Polymer Liquid Crystals (Grad. Sch. Life Sci., Ritsumeikan Univ.) OMITSUHASHI, Fumika; YOUNIS, Osama; KUDO, Riki; TSUTSUMI, Osamu
- 3PA-016** Photoluminescence Behaviors of Mixtures of Rod-like Gold Complexes/Liquid Crystals in a Chiral Nematic Phase (Grad. Sch. Life Sci., Ritsumeikan Univ.) OSAKAMOTO, Kaho; ANUKUL, Preeyanuch; TSUTSUMI, Osamu
- 3PA-017** Crystal structure and luminescence property of fluorene derivative (OGC Co., Ltd.; Osaka Municipal Technical Research Institute) OMINAMI, Satoshi; TSUKADA, Shinichiro; NAKAMURA, Masashi; MITAMURA, Koji; WATASE, Seiji
- 3PA-018** Aggregated state and fluorescence properties of diphenylalanine derivatives with dibenzoylmethane boron complex (Grad. Sch. Sci. Technol., Shinshu Univ.) OSAGAWA, Takehiro; HUKAMINATO, Tsuyoshi; ITO, Fuyuki
- 3PA-019[#]** Fluorescence enhancing effect of nanographene using nano porous silica (Tokyo Metropolitan Ind. Tech. Res. Inst.) OFUJIMAKI, Yasuto; WATANABE, Hiroto; HAYASHI, Kosei; SOMEKAWA, Shoichi
- 3PA-020[#]** Energy transfer by iridium complexes on clay surface (Grad. Sch. Sci., Eng., Ehime Univ.) OSATO, Hisako; WATANABE, Yutaka; TAMURA, Kenji; YAMAGISHI, Akihiko
- 3PA-021** Two-photon induced luminescence properties of mitochondrial membrane potential sensitive probes possessing a biaryl moiety (Fac. Sci., Yamaguchi Univ.) OOMURA, Yuriko; ONISHI, Shozo; MAKINO, Yohei; FUJIKI, Shohei; MORITOMO, Hiroki; SUZUKI, Yasutaka; KAWAMATA, Jun
- 3PA-022** Immobilization of DNA on composite film triggered by irradiation of malachite green derivative (Dept. of Chem. Eng., NNCT) OUDA, Ryoko
- 3PA-023** Effects of Oxidation Number of Au Atom on Luminescence Properties of Its Complexes (Coll. Life Sci., Ritsumeikan Univ.) OTAMAKI, Yusaku; TSUTSUMI, Osamu
- 3PA-024[#]** Investigation of electropolymerization process of PEDOT in porous titania electrodes by raman spectroscopy (Fac. Eng., Gifu Univ.) MANSEKI, Kazuhiro; ONAGAO, Yoshinobu; SUGIURA, Takashi
- 3PA-025[#]** Analyzing crystallization process of titania nanoparticles in the room-temperature wet chemical synthesis and solar cell applications (Fac. Eng., Gifu Univ.) MANSEKI, Kazuhiro; OSAKA, Kazuki; SUGIURA, Takashi
- 3PA-026** Synthesis and Properties of Novel Organic Sensitizers for Dye-sensitized solar cells. (Grad. Sch. Sci., Josai Univ.) OTAKAHASHI, Katsuya; HASHIMOTO, Masashi
- 3PA-027[#]** Sensitized thermoelectric cell composed of Ge semiconductor/Vanadium ions (Sch. Mater. & Chem. Tech., Tokyo Tech.; Tohnic) ARAKI, Takuma; ISOBE, Toshihiro; NAKAJIMA, Akira; OBINATA, Mitsugu; OATSUSHITA, Sachiko
- 3PA-028[#]** Evaluation of thermoelectric properties of carbon nanotube/poly-styrene composites with controlled nano-interfaces (Fac. Eng. Resource Sci.,

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Functions of Materials

- 3PA-001** Effect of methoxyethyl ester group on blood compatibility and protein adsorption (Sch. Eng., Tokai Univ.) OKINOSHITA, Takuya; YAHATA, Chie; MOCHIZUKI, Akira
- 3PA-002[#]** Photoinduced Reversible Formation of a Superhydrophilic Surface by Crystal Growth of Diarylethenes and the Ligand Effect (Grad. Sch. Sci. Tech., Ryukoku Univ.) OTAKASE, Kazuki; KAWASAKI, Kana; MORIMOTO, Masakazu; MAYAMA, Hiroyuki; KOJIMA, Yuku; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; UCHIDA, Kingo
- 3PA-003[#]** Thermal stability of the closed-ring isomer of a diarylethene with perfluorocyclohexene ring (Fac. Sci. Tech., Ryukoku Univ.; Sch. Pharm., TUPLS; RIKEN RINC) OHATANO, Eri; HYODO, Kengo; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; UCHIDA, Kingo
- 3PA-004[#]** Thermal bleaching reaction of photochromic thiophene-S,S-dioxidized diarylethenes with benzofuran as the ethene moiety (Grad. Sch. Eng., Osaka City Univ.) ONAKAI, Yoshihiro; KITAGAWA, Daichi;

- Akita Univ.) ○MATSUMOTO, Kazuya; JINGUJI, Yuka; JIKEI, Mitsutoshi
- 3PA-029** Removal of Cr(VI) ions through adsorption on grafted polyethylene mesh films (Coll. Industrial Tech., Nihon Univ.) ○KURAMOCHI, Riki; KIMURA, Yuji; ASAMOTO, Hiromichi; YAMADA, Kazunori; MINAMISAWA, Hiroaki
- 3PA-030** Application of chemically cross-linked chitosan beads to removal of Cr(VI) ions by adsorption (Coll. Industrial Tech., Nihon Univ.) ○TAKAGI, Miho; KIMURA, Yuji; ASAMOTO, Hiromichi; YAMADA, Kazunori; MINAMISAWA, Hiroaki
- 3PA-031[#]** Cesium absorption behavior and mechanism by layer silicate (Sch. Eng., Tokyo City Univ.) ○EBA, Hiromi; TOMIYAMA, Fumiya; NISAWA, Hideyuki; SAKURAI, Kenji
- 3PA-032** Calix[4]arene diglycolamic acid derivative: application to lanthanide extraction (ASRC, JAEA) ○SHIMOJO, Kojiro; YABE, Makoto; SUGITA, Tsuyoshi; OKAMURA, Hiroyuki; HASHI, Akira; NAGANAWA, Hirochika

Applications of Materials

Battery/electrical cell

- 3PA-035** Effect on catalytic properties of post-treatment for platinum nanoparticles catalysts synthesized by liquid reduction method (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○OKADA, Toshihiko; MIYABAYASHI, Keiko
- 3PA-036** Metal-support interaction of Pt nanoparticles modified with pyrene derivative and improved electrocatalytic activity for oxygen reduction reaction (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○SHIRAYAMA, Yodai; MIYABAYASHI, Keiko

Functional Dye

- 3PA-037** Synthesis and Photophysical Properties of N-Annulated Perylene Bisimides (Fac. Sci., Kochi Univ.) ○SEKIDA, Shinya; KOGA, Tomoko; NIKO, Yosuke; HADANO, Shingo; WATANABE, Shigeru
- 3PA-038** Fabrication of blue / green color filter film using soluble CoPc complex introduced axial ligand and organic-inorganic hybrid resin by laser irradiation (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○IIZUKA, Ryo; OISHI, Tomoji
- 3PA-039** Adsorption of anionic natural dye onto metal-ion containing mesoporous silica (Fac. Eng., Shizuoka Univ.) ○TAKENAKA, Yurina; KOHNO, Yoshiumi; SHIBATA, Masashi; MAEDA, Yasuhisa
- 3PA-040** Composite material of natural Spirulina Blue dye and several inorganic hosts (Fac. Eng., Shizuoka Univ.) ○AMANO, Yuji; KOHNO, Yoshiumi; SHIBATA, Masashi; MAEDA, Yasuhisa
- 3PA-041[#]** Color gradation originated with stretch and contract of aromatic substituted helical polyacetylenes (Grad. Sch. of Eng., Muroran Inst. of Tech.) ○MAWATARI, Yasuteru; TABATA, Masatoshi
- 3PA-042** Spectral characteristics of quinaclidone derivatives with extended π -conjugated system (Grad. Sch. Sci., Eng., Saitama Univ.) ○OSHIMA, Hiroaki; HIROSE, Takuji; KODAMA, Kouichi

Adhesion, surface functions

- 3PA-043** Effects of polymer types on photoinduced adhesion properties of polymer-photoresponsive liquid crystal composite resins (Grad. Sch. Sci. Tech., Nihon Univ.; RISC, AIST) ○KOIKE, Mioka; YAMAMOTO, Takahiro; AOYAGI, Takao; KIHARA, Hideyuki
- 3PA-044[#]** Molecular Mechanism of Interfacial Adhesion between Epoxy Resin and h-BN Surface (IMCE, Kyushu Univ.) ○KITAMURA, Yasuhiro; TSUJI, Yuta; YOSHIZAWA, Kazunari; SOMEYA, Masao; TAKANO, Toshihiko; YAGINUMA, Michio; NAKANISHI, Kohei

Lifescience

- 3PA-045[#]** Challenge to innovate the high water solubility NIR luciferin for *in vivo* imaging (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○MORIMITSU, Rei; HIRANO, Takashi; MAKI, Shojiro
- 3PA-046** Development of ROS-responsive antioxidant loaded polymeric micelles (Grad. Sch. Eng., The Univ. of Tokyo) ○NAKAMURA, Naoto; ANRAKU, Yasutaka; YOSHINAGA, Naoto; KATAOKA, Kazunori

Materials/measurements in environments

- 3PA-047** Photocatalytic activity of particulate iron oxide under visible light (Fac. Eng., Shizuoka Univ.) ○SAWA, Rei; KOHNO, Yoshiumi; MAEDA, Yasuhisa

Hybrid materials

- 3PA-048** Preparation of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Magnesium Oxide Nanocomposites Possessing a Water-resistance Ability (Grad. Sch. Sci. Tech., Hirosaki Univ.; Kanto Denka Kogyo Co., Ltd.) ○OIKAWA, Yuri; KASAI, Fumihiko; GOTO, Yuki; SAWADA, Hideo

- 3PA-049** Wetting Characteristic of the Modified Surface Treated with Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/ Polyurethane Nanocomposites (Grad. Sch. Sci. Tech., Hirosaki Univ.; Nippon Chemical Industrial Co., Ltd.) ○SASAHARA, Shohei; TAMURA, Ken; SAWADA, Hideo
- 3PA-050** Preparation of Fluorinated Aliphatic Diols Nanocomposites - Encapsulated a Variety of Guest Molecules: Application of These Nanocomposites to the Surface Modification (Grad. Sch. Sci. Tech., Hirosaki Univ.; UNIMATEC) ○YAMASHITA, Katsumi; JIN, Natsuki; KIJIMA, Tetsushi; MIYATA, Momoko; KANEMI, Yoshiyama; SAWADA, Hideo
- 3PA-051** Water-resistant of the Cyclodextrin in Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Cyclodextrin Composites (Grad. Sch. Sci. Tech., Hirosaki Univ.; Kankyo-Kougaku Co., Ltd.; Nippon Chemical Industrial Co., Ltd.) ○CHIBA, Masaya; SUZUKI, Junichi; FUJII, Shogo; TAMURA, Ken; SAWADA, Hideo
- 3PA-052** Preparation and Application of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Cellulose Nanofiber/Zirconia Composites (Fac. Sci. Tech., Hirosaki Univ.; Grad. Sch. Sci. Tech., Hirosaki Univ.; Kanto Denka Kogyo Co., Ltd.) ○ENDO, Yui; OIKAWA, Yuri; GOTO, Yuki; SAWADA, Hideo
- 3PA-053** Photo-patterning of organic-inorganic hybrid film containing latent pigments for high performance color filter of LCD by microwave irradiation (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○KIMURA, Yu; OHISHI, Tomoji
- 3PA-054** Sublimability control of p-dichlorobenzene using organoclay (Fac. Eng., Shizuoka Univ.) ○ICHIKI, Toshinobu; TOYODA, Kazuo; NISHITANI, Michiyuki; KOHNO, Yoshiumi; MAEDA, Yasuhisa
- 3PA-055[#]** Strain Dependence of Complex Modulus for Bimodal Magnetic Elastomers Containing ZnO Particles (Grad. Sch. Sci. and Technol., Niigata Univ.) ○NAGASHIMA, Kazushi; KAWAI, Mika; MITSUMATA, Tetsu
- 3PA-056[#]** Ultrasound velocity in magnetic elastomers and particle dispersibility (Grad. Sch. Sci. and Technol., Niigata Univ.) ○TSUJIEI, Yuri; KAWAI, Mika; MITSUMATA, Tetsu

Resources Utilization Chemistry

- 3PA-059** Study on interfacial shear strength of CF / PP with iPP-PAA (Kanazawa Inst. of Tech.) ○SAKAKIBARA, Keisuke; SAKAI, Shuji; ITO, Tsukasa; TSUKEGI, Takayuki; SASAKI, Daisuke; YOSHIMURA, Osamu
- 3PA-060** Study on solidification and molding technology of nursery bedding for cell molding using biomass-derived polymer (Kanazawa Inst. of Tech.) ○SAKAI, Kohei; TSUKEGI, Takayuki; HUJI, Yukito; NAGASAWA, Mitio; USUI, Yoshihiko; YOSIMURA, Osamu
- 3PA-061** Synthesis of photo-cured materials based on vegetable oil by photocycloaddition reaction (TRI-OSAKA) ○INOUE, Yohtarō; NAKAHASHI, Akiko; TACHI, Hideki
- 3PA-062[#]** Changes in form and chemical composition of chrysotile by dissolution reaction (Fac. Eng., Saitama Inst. of Tech.) ○HONGO, Teruhisa
- 3PA-063** Catalytic effect of Ni/SiO₂ on thermal decomposition of polyethylene terephthalate (Grad. Sch. Sci. Tech., Nihon Univ.) ○KANEKO, Ryusei; TAKAHASHI Rintaro; AIZAWA, Yuya; SAKAGAMI, Aki; ITO, Takuya; KAKUTA, Yusuke
- 3PA-064[#]** Magnetic separation of plastic materials using permanent magnets (Nippon Institute of Technology) ○IKEZOE, Yasuhiro; HAMAIZAKI, Yuusuke
- 3PA-065** Extraction of keratin from bovine hair by reduction method and its film properties (HPITLe) ○MORI, Masaru
- 3PA-066** Fiber Properties of Wool Fibers Colored by Maillard Reaction (2) -Coloration using Glycerol oxides- (Osaka Municipal Technical Research Institute) ○OHE, Takeru; YOSHIMURA, Yurika
- 3PA-067** Functionalization of residual lignin on alkaline pulp-sheet by chemical modification (Fac. Life Env. Sci, Pref. Univ. of Hiroshima) ○WATANABE, Nobuhiro; AOYAGI, Mitsuru
- 3PA-068** Influences of condensed structures in native lignin derivations on photo-excitation electron transfers (Fac. Life Env. Sci, Pref. Univ. of Hiroshima) ○YAMAMOTO, Masaki; AOYAGI, Mitsuru
- 3PA-069** Influence of alkyl substituents for reduction of alkyl phenols using iron powder and Rh/C in sulfuric acid. (Fac. Life Env. Sci, Pref. Univ. of Hiroshima) ○YANO, Yutarō; YOKOYAMA, Daiki; KAWAI, Yoshiaki; AOYAGI, Mitsuru; MITOMA, Yoshiharu
- 3PA-070** Effect of the Anions of the Ionic Liquids modified over Pt/H-ZSM-5 Catalysts on Hydrodeoxygenation of Phenols (Grad. Sch. Sci., Eng., Ehime Univ.) ○HTA, Hidetoshi; ○TOUBAYASHI, Kanako; KUROO, Akihiro; NAKATSUKA, Mao; HAYASHI, Minoru
- 3PA-071** Study on hydrolysis of cotton using lactic acid catalyst under hydrothermal conditions (Coll. Sci. Tech., Nihon Univ.) ○SHINNOKI, Ryo; ITO, Takuya; KAKUTA, Yusuke
- 3PA-072** Elucidation of reaction behavior on direct liquefaction of vegetation biomass (Coll. Sci. Tech., Nihon Univ.) ○SHIBATA, Sachiyo; ITOU, Takuya; KAKUTA, Yusuke
- 3PA-073** Study on innovative biodiesel production method combined hydrolysis and pyrolysis (Coll. Sci. Tech., Nihon Univ.) ○KENTARO, Kimura;

ITO, Takuya; KAKUTA, Yusuke

- 3PA-074** Syntheses of limonene carbonate and its derivatives (Fac. Eng., KAIT; Grad. Sch. Eng., Nagasaki Univ.) O MIMAMOTO, Masato; GOROU, Yuuta; YAMAGUCHI, Jun-ichi; MOTOKUCHO, Suguru; MORIKAWA, Hiroshi
- 3PA-075** Direct conversion of CO₂ by using Non-equilibrium plasma-catalytic processes (Saitama Inst. of Tech.) O YAMAZAKI, Ryo; ARITANI, Hirofumi; OGATA, Atsushi
- 3PA-076** Product Selectivity for the CO₂ Photoreduction in a Porous Coordination Polymer-Ruthenium Complex Hybrid Catalyst (WPI-iCeMS, Kyoto Univ.) O IKEDA, Miyuki; KAJIWARA, Takashi; KITAGAWA, Susumu

Organic Crystals

- 3PA-079** Self-reproduction System of Phospholipid-based Giant Vesicle (Fac. Sci., Kanagawa Univ.) O OMINATO, Yuka; ISHII, Ibuki; KARASAWA, Akane; TAKAHASHI, Tatsuya; O SUZUKI, Kentaro; SUGAWARA, Tadashi
- 3PA-080** Synthesis of Anionic Polymer Serving as a Co-enzyme for Membrane Lipid Production in Vesicle-based ProtoCell (Fac. Sci., Kanagawa Univ.) KANEKO, Moe; MATSUSHIMA, Hana; KONNO, Haruno; SUZUKI, Kentaro; O SUGAWARA, Tadashi
- 3PA-081** Hydration and Dehydration Transformation Mechanism of Quinine Hydrochloride Crystal (Sch. Sci., Tokyo Tech.) O NOGAMI, Shin; SEKINE, Akiko; UEKUSA, Hidehiro
- 3PA-082** Crystal structure analysis of the multi-component crystal including etodolac (Sch. Sci., Tokyo Tech.) O IWAKI, Ryoshi; SEKINE, Akiko; UEKUSA, Hidehiro
- 3PA-083** Construction of crystalline coordination networks by using functionalized triangular panel ligands (Grad. Sch. Eng., The Univ. of Tokyo) O ADACHI, Kiyohiro; SAWADA, Tomohisa; FUJITA, Makoto
- 3PA-084** Gas Adsorption Behavior of Dipeptide Derivatives Composed of DL-Phenylalanine and Beta-Alanine (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) O YAMANAKA, Kazuaki; ASAI, Hisashi; OKETANI, Ryusei; TAKAHASHI, Hiroki; TSUE, Hirohito
- 3PA-085** Construction and Property of Porous Organic Salts (POSS) Composed of Tetrahedral Aromatic Tetrasulfonic Acids and Bulky Amines (Grad. Sch. Eng., Osaka Univ.) O TSUCHIYA, Keiho; MIYANO, Tetsuya; OKADA, Naoki; HISAKI, Ichiro; TONAI, Norimitsu
- 3PA-086** Control of Hydrogen Bonds in Crystalline Diamides Derived from Amino Acids Using Bulky Substituents (Grad. Sch. Eng., Chiba Univ.) AKAZOME, Motohiro; O KUNITO, Mei; NISHIGUCHI, Chisato; MATSUMOTO, Shoji
- 3PA-087** Relationship between the optical activity and the crystal structure of alanine chiral crystals with two-fold screw axis (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) O ISHIKAWA, Kazuhiko; TERASAWA, Yukana; TANAKA, Masahito; ASAH, Toru
- 3PA-088** Chiral Crystallization of Ammonium Carboxylates: Assembly Manners of Twofold Helices (Grad. Sch. Eng., Univ. of Hyogo) O SASAKI, Toshiyuki; UESUGI, Tsubasa; MIYATA, Mikiji; HISAKI, Ichiro; SATO, Hisako; TOHNAI, Norimitsu; MATSUO, Yoshiaki
- 3PA-089** X-Ray Crystallographic Analysis of axially chiral amino acid derivatives and Deracemization Involving Dynamic Crystallization (Grad. Sch. Eng., Chiba Univ.) SAKAMOTO, Masami; OIHARA, Shoko; YOSHIDA, Yasushi; MINO, Takashi
- 3PA-090** X-Ray Crystallographic Analysis of β -Amino Ketones and Application to Dynamic Crystallization (Grad. Sch. Eng., Chiba Univ.) O SHIMOBAYASHI, Haruna; YOSHIDA, Yasushi; MINO, Takashi; KASASHIMA, Yoshio; MIYATA, Mikiji; SAKAMOTO, Masami
- 3PA-091** Asymmetric Diels-Alder reaction involving dynamic crystallization (Fac. Eng., Chiba Univ.) UEMURA, Naohiro; O TOYODA, Seiya; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami
- 3PA-092** Absolute asymmetric synthesis of dihydroquinolones by solid-state [6 π] photocyclization of acrylanilides (Department of Chemistry, Ochanomizu University) O OAKU, Saki; YAMADA, Shinji
- 3PA-093** Catalytic solid-state [4+4]Photodimerization of azaanthracene (Grad. Sch. Of Humanities and Sci., Ochanomizu Univ.) O CHIDA, Moemi; YAMADA, Shinji
- 3PA-094** Solid-state condensation reaction of ionic molecular crystals consisting of two disubstituted anthracene components (Grad. Sch. Eng., Nagoya Inst. of Tech.) O FUJII, Takahiro; NAITO, Yoko; YAMOTO, Kazuhisa; SUZUKI, Masato; TAKAGI, Koji; MATSUOKA, Shin-ichi; UEKUSA, Hidehiro; SUGIYAMA, Haruki
- 3PA-095** Controlling Chirality of Ferroelectric Triglycine sulfate crystals by Alanine molecules (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) O TERASAWA, Yukana; ISHIKAWA, Kazuhiko; ASAH, Toru
- 3PA-096** Physicochemical Properties in L-lactic Acid Doped Ferroelectric Triglycine sulfate (Sch. Advanced Sci. Eng., Waseda Univ.) O KAWATANI, Tomoro; ISHIKAWA, Kazuhiko; TERASAWA, Yukana; ASAH, Toru
- 3PA-097** Odd-even effect of alkyl chain on chromic behavior of salicylaldehyde Schiff bases (IIS, The Univ. of Tokyo) O IKEDO, Hana; YU, Danfeng; YOSHIKAWA, Isao; HOUJOU, Hirohiko
- 3PA-098** Synthesis of Dimeric Imidazo[1,5-a]pyridine Derivatives Having Light-emitting Properties in the Solid-state (Fac. Eng., Tokushima Univ.)

YAGISHITA, Fumitoshi; O NII, Chiho; KOZAI, Natsumi; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko

- 3PA-099** Preparation of chiral BINAP/Eu/polymer-hybrid luminophore and its circularly polarized luminescence (CPL) property (Faculty of Science and Engineering, Kindai University) KONO, Yuki; HARA, Nobuyuki; TANIGUCHI, Ayano; SUDOU, Atsusi; FUJIKI, Michiya; O IMAI, Yoshitane
- 3PA-100** Study of the crystal structure of H₂Pc partially oxidized salts (Grad. Sch. Sys. Eng., Wakayama Univ.) O SAKAI, Kensaku; YAMAKADO, Hideo
- 3PA-101** Synthesis and structure of the perylene - BHETCNQ complexes (Fac. Sys. Eng., Wakayama Univ.) O OONO, Minami; SAKAI, Kensaku; YAMAKADO, Hideo
- 3PA-102** Synthesis and physicochemical properties of nitronyl nitroxide biradical derivatives having NH hydrogen bonding site and effect of introduction of localized spin center (Fac. Sci. Tech., Keio Univ.) O KASAI, Yuki; SAITO, Takatada; OZORA, Norimasa; TAKAHASHI, Yusuke; MIURA, Youhei; YOSHIOKA, Naoki
- 3PA-103** Synthesis and physicochemical properties of copper phthalocyanine carrying localized nitroxide radical at benzo ring (Fac. Sci. Tech., Keio Univ.) O TSUCHIYA, Ryo; TAKAHASHI, Yusuke; MIURA, Youhei; YOSHIOKA, Naoki

Saturday, March 18, AM

(12 : 30~14 : 00)

Organic Chemistry -Reaction and Synthesis-Heterocyclic Compounds

- 3PB-001** Environmentally benign synthesis of azaspiro- γ -lactones with allyl boronates (Grad. Sch. Eng., Shizuoka Univ.; Grad. Sch. Sci. Technol., Shizuoka Univ.) SENGOKU, Tetsuya; O KAWAKAMI, Ai; MURATA, Yusuke; TAKAHASHI, Masaki; YODA, Hidemi
- 3PB-002** Catalytic Enantioselective Allylation of 1,2-dicarbonyl compounds with β -amido allylboronates (Fac. Eng., Shizuoka Univ.) SENGOKU, Tetsuya; SUGIYAMA, Akihiro; KAMIYA, Yuta; O MAEGAWA, Ryunosuke; TAKAHASHI, Masaki; YODA, Hidemi
- 3PB-003** Synthesis of Benzochromenones Using Mn(III)-Based Multi-step Oxidation (Dept.chem.Kumamoto Univ.) O MORINAGA, Koji; NISHINO, Hiroshi
- 3PB-004** Mn(III)-based Oxidative Cyclization of 1,1,4,4-Tetraphenylbuta-1,3-diene with *N,N'*-Diphenylmalonamide (Dept. Chem. Kumamoto Univ.) O SHIMOISHI, Ryutarō; NISHINO, Hiroshi
- 3PB-005** Synthesis of Spiro(cycloalkane-1,3'-indoline) Using Oxidative Radical Cyclization (Dept Chem, Kumamoto Univ.) O KATAYAMA, Shintaro; NISHINO, Hiroshi
- 3PB-006** Oxidative Dual Radical Cyclization of 1,6-Heptadienes with Malonamide Derivatives (Dept Chem, Kumamoto Univ.) O OSHIRO, Taku; NISHINO, Hiroshi
- 3PB-007** Synthesis of 1-arylbenzo[c]thiophenes using the reaction of 2-(chloromethyl)phenyllithiums with aromatic aldehydes (Grad. Sch. Eng., Tottori Univ.) O HONDA, Yuuya; SHIGEMURA, Yuuho; KOBAYASHI, Kazuhiro
- 3PB-008** Syntheses of isothiochromene or 1,3-dihydrobenzo[c]thiophene derivatives by iodine or hydrobromic acid mediated cyclizations of *o*-((tert-butylsulfanyl)methyl)styrene derivatives (Grad. Sch. Eng., Tottori Univ.) O UEYAMA, Takuma; HORIUCHI, Mai; KOBAYASHI, Kazuhiro
- 3PB-009** Development of benzenesulfonamide typed cyclononyne as a click reagent (Hokkaido Coll. Pharm.) O KANEDA, Kyosuke; NARUSE, Risa; YAMAMOTO, Syota
- 3PB-010** One-pot Synthesis of 4-Arylthiazoles with alkylarenes and thioamides (Grad. Sch. Sci., Chiba Univ.) O SHIMOKAWA, Shohei; TOGO, Hideo
- 3PB-011** The study of the lactonization of the unsaturated carboxylic acid by the ionic liquids (Grad. Sch. Sci., Eng., Yamagata Univ.) O SUTO, Toru; KURIYAMA, Yasunao
- 3PB-012** Synthesis of Phthalocyanines Utilizing Ionic Liquids (Fac. Eng., Kindai Univ.; Fac. Eng., Oita Univ.) O KITAOKA, Satoshi; IZAWA, Shintaro; NOBUOKA, Kaoru
- 3PB-013** Synthesis of (*Z*)-*N*-alkylbenzo[c]thiophen-1(3*H*)-imines and 2-alkylisoindoline-1-ones by cyclization reactions of the adducts of *N*-alkyl-2,*N*-dithiothio benzamides to aldehydes (Grad. Sch. Eng., Tottori Univ.) O NOGI, Takashi; KOBAYASHI, Kazuhiro
- 3PB-014** Cyclic Etherification of *cis*-/*trans*-unsaturated alcohols catalyzed by zeolites (Grad. Sch. Sci., Eng., Yamagata Univ.) O KUROGANE, Taishu; KURIYAMA, Yasunao
- 3PB-015** One-Pot Preparation of Aryl-Substituted Nitrogen-Containing Heteroaromatics from Methylarenes (Grad. Sch. Sci., Chiba Univ.) O IMAI, Tarō; TOGO, Hideo
- 3PB-016** Synthesis of 2-substituted 3-thioxoisoindolin-1-ones by the reaction of *N*-substituted 2,*N*-dithio benzamides with isothiocyanates. (Fac. Eng., Tottori Univ.) O FUJIWARA, Daiki; KOBAYASHI, Kazuhiro
- 3PB-017** Prins reaction using trioxane for trisubstituted, *cis*-fused tetrahydropyrans (Grad. Sch. Nanobiosci., Yokohama City Univ.)

- HLOKOANE, Oriël; ITAGAKI, Hiyori; CHIBA, Manami; ISHIKAWA, Yuichi; OIKAWA, Masato
- 3PB-018[#]** One-Pot Preparation of Quinoline Derivatives with Hypervalent Iodine Reagents (Grad. Sch. Sci., Chiba Univ.) ○SASAKI, Teppi; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3PB-019[#]** Diversity-oriented synthesis of polyfunctionalized heterocycles for drug discovery (UMR CNRS 7312, Univ. of Reims, France; Dept. Pha., Univ. of Chieti-Pescara, Italy; Dept. Chem., Univ. of Cambridge, UK; Dept. Chem. Drug Techn., Univ. of Rome, Italy) SAPI, Janos; GÉRARD, Stéphane; FONTANA, Antonella; MARRONE, Alessandro; RE, Nazzeno; ○RENZETTI, Andrea; BOND, Andrew; NIE, Feilin; VILLANI, Claudio
- 3PB-020** Synthesis and Application of NHCs Having Axial Chirality Adjacent to Carbene Carbon (Fac. Eng., Gifu Univ.) ○TOTANI, Shogo; KOTO, Yuma; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 3PB-021** Reactions of 4-Dialkylamino-3-trifluoroacetylquinolines with Lawesson's Reagent: Synthesis of Novel Fluorine-Containing Thiazinoquinolines and Dithioquinolines (Grad. Sch. Eng., Kobe Univ.) KAWAGUCHI, Genki; ○TAKAYAMA, Kyohei; OKADA, Etsuji
- 3PB-022** Facile Synthesis of Novel Fluorine-Containing Benzo[*h*][1,6]naphthyridines by Cyclocondensation Reaction of 4-Amino-2-dimethylamino-3-trifluoroacetylquinoline with Ketones (Grad. Sch. Eng., Kobe Univ.) MIHARA, Kota; ○AMANO, Akio; OKADA, Etsuji
- 3PB-023** Synthesis and Fluorescence Properties of Benz[*h*]isoquinoline Derivatives (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) ○ASAOMO, Satomi; HOSOI, Haruko; WATANABE, Soichiro
- 3PB-024[#]** Oxidative addition of cationic pyridinium groups to chlorophyll derivatives (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○OGASAWARA, Shin; ECHIZEN, Shihoko; TAMIAKI, Hitoshi
- 3PB-025[#]** Oxidation by Substituted 5-nitroso-1,3-diphenyltetrazolium salts (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○MATSUKAWA, Yuta; HIRASHITA, Tsunehisa; ARAKI, Shuki
- 3PB-026** Computational Study for the Selective Aromatic Nucleophilic Substitution of 4-Dimethylamino-2-methoxy-3-trifluoroacetylquinoline (Grad. Sch. Eng., Kobe Univ.) SASAKAWA, Shota; OTA, Norio; ○KAMITORI, Yasuhiro; OKADA, Etsuji
- 3PB-027** Diels-Alder reaction using furylboron compounds. (Grad. Sch. Eng., Tokyo Denki Univ.) ○NAKAJIMA, Risa; YAMAMOTO, Tetsuya; SHINOZAKI, Hiraku
- 3PB-028[#]** Difluorodiazethane- applications in cycloaddition reactions (RWTH Aachen University, Institute of Organic Chemistry) ○HOCK, Katharina J.; KOENIGS, Rene M.
- 3PB-029** Iodine-Mediated Synthesis of Benzothiophenes and Benzothienobenzothiophenes (Grad. Sch. Sci., Chiba Univ.) ○SATO, Kazuki; YOSHIDA, Kazuhiro
- 3PB-030** Synthesis and Properties of Highly Emissive and Red-shifted Fluorescent Imidazo[1,5-*a*]pyridines (Fac. Eng., Gifu Univ.) ○YOSHIIHARA, Mari; IMAI, Masahiko; SAKAI, Yuusuke; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 3PB-031[#]** Asymmetric synthesis of anticancer quinazoline PVHD121 by enantioselective methylation of ketone (Grad. Sch. of Sci. Technol., Sophia Univ.) ○SHIMOTOMAI, Kanako; SUZUKI, Yumiko
- 3PB-032[#]** Catalytic asymmetric reaction of indoles with imines using chiral NCN-pincer-type palladium complex (Grad. Sch. Sci., Chiba Univ.) ○KAKINO, Junki; ARAI, Takayoshi
- 3PB-033** Synthesis of 3-aminoalkyl pyrroloindolines using tryptamines and *N*-Boc imines (Grad. Sch. Sci., Chiba Univ.) ○MAKINO, Hiroki; ARAI, Takayoshi
- 3PB-034[#]** Structural Analyses of Oxindole Dimers: Development of the Radical-Radical Hetero-Coupling with Azo Compounds (Syn. Org. Chem. Lab., RIKEN) ○SUGAWARA, Masumi; SOHTOME, Yoshihiro; HASHIZUME, Daisuke; HOJO, Daiki; SAWAMURA, Miki; MURANAKA, Atsuya; UCHIYAMA, Masanobu; SODEOKA, Mikiko
- 3PB-035[#]** Addition reaction of benzylamines with conjugated dienes catalyzed by lithium alkylamide (28) Reactivity of *N*-Vinyl indazole and *N*-Vinyl benzotriazole (Fac. Eng., Saitama Inst. of Tech.) ○HAMANA, Hiroshi; SAKAMOTO, Shura; KANAKUBO, Syouta; SUTOU, Kouki; SUZUKI, Michiteru
- 3PB-036** Aggregation Behaviors and Optical Properties of Aminobenzopyrano-Xanthene Dye in Ionic Liquids (Fac. Eng., Oita Univ.) ○ENOKI, Shinji; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 3PB-037[#]** Synthesis and emission behavior of 1,3-diaryl-6*H*-cyclohepta[*c*]furan bearing dicyanoethenyl and tosylimino groups at the 5,7 positions (Fac. Sci., Shinshu Univ.) ○KOBAYASHI, Naoki; MIYATAKE, Ryuta; ODA, Mitsunori
- 3PB-038[#]** Synthesis and properties of *N*-substituted 6,11-bis-(4-methoxyphenyl)-5,12-tetracenequinone-8,9-dicarboxyimide (Fac. Sci., Shinshu Univ.) ○NAKAHARA, Yuki; SHIMOSASA, Haruki; MIYATAKE, Ryuta; ODA, Mitsunori
- 3PB-039** Preparation of Chiral Ion Liquids Catalysts Utilizing Chiral L-Proline (Fac. Eng., Oita Univ.) ○HIRAI, Tatsuya; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 3PB-040[#]** Synthesis and photophysical properties of 7,10-diaryl-*N*-dimethylamino-1,6-methano[10]annulene-3,4-dicarboximides. (Fac. Sci., Shinshu Univ.; Grad. Sch. Sci. Eng., Univ. of Toyama; ICR, Kyoto Univ.) ○ARIYASU, Kousuke; MIYATAKE, Ryuta; YANAGISAWA, Tatsuya; ODA, Mitsunori
- 3PB-041** Claisen Rearrangement of Allyl 4-Pyrazolyl Ethers and Synthesis of Pyrazololactones via Hydroesterification. (Grad. Sch. Industrial Tech., Nihon Univ.) ○TAKASHIMA, Hiroki; ICHIKAWA, Hayato
- 3PB-042[#]** Chiral Bis(imidazolidine)iodobenzene (I-Bidine) Organocatalyst for Thiochromane Synthesis Using Asymmetric Michael/Henry Reaction (Grad. Sch. Sci., Chiba Univ.) ○SUZUKI, Takumi; INOUE, Takahiro; KUWANO, Satoru; ARAI, Takayoshi
- 3PB-043[#]** Photobiscyclization of Bridged 1,2,6-Triphenylpyridinium Cations (Grad. Sch. Urban Environmental Sci., TMU) ○TORII, Moe; YAMAGUCHI, Motowo; SATO, Kiyoshi
- 3PB-044** Synthesis of chiral hypervalent iodine catalyst and its application for spirooxindolone of diarylmalonamides (Grad. Sch. Eng., Tokyo Denki Univ.) ○IMAI, Satoshi; YAMAMOTO, Tetuya; SHINOZAKI, Hiaku
- 3PB-045** Enantioselective synthesis of oxirane with a MOM-protected catechol group through Lipase-mediated chiral kinetic resolution (Fac. Life Med. Sci., Doshisha Univ.) SANDO, Rio; ○OE, Yohei; OHTA, Tetsuo
- 3PB-046** Asymmetric Bromolactonization of Styrene-type Carboxylic Acid using Novel Chiral Selenides (Coll. Industrial Tech., Nihon Univ.) ○SHIBA, Kouhei; ICHIKAWA, Hayato
- 3PB-047** Asymmetric Black Rearrangement with Acid-Combined Chiral *N*-Aryl Imidazole Catalysts (Fac. Eng., TUS) ○MATSURA, Kodai; SUZUKI, Koki; AKAI, Ko; IMAHORI, Tatsushi
- 3PB-048** Development of alkyne-carbonyl metathesis/oxidative aromatization sequence of ynals and its application to synthesis of polycyclic compounds (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HOSHINO, Taichi; SAITO, Akio
- 3PB-049** Synthesis and biological activity of ethyl 1-aryl-5-oxo-2-thioxopyrrolidine-3-carboxylates and their zinc(II) complexes (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.; Dept. Health Sports Nutr., Kobe Women's Univ.; Dept. Anal. Bioinorg. Chem., Kyoto Pharm. Univ.) KAWANO, Saya; YOSHIKAWA, Yutaka; SASAKI, Kaname; YASUI, Hiroyuki; ○SAITO, Ryota
- 3PB-050[#]** Synthesis of optically active 2-azabicyclo[2.2.1]heptenes using organocatalytic asymmetric imino Diels-Alder reaction (Grad. Sch. of Eng., Muroran Inst. of Tech.) ○SEKI, Kento; U.V., Subba Reddy; SEKI, Chigusa; UWAI, Kouji; NAKANO, Hiroto
- 3PB-051[#]** Synthesis and fluorescence properties of fluorescamine derivatives as the fluorescent probes for amines (Fac. Textile Sci. Technol., Shinshu Univ.) TOMIOKA, Satoshi; ○MOTOYOSHIYA, Jiro
- 3PB-052** Synthesis of new cage type *anti*-influenza compounds using amino alcohol organocatalytic asymmetric Diels-Alder reaction as key reaction (Grad. Sch. of Eng., Muroran Inst. of Tech.) ○TANAKA, Hikaru; SEKI, Chigusa; OGAWA, Haruko; IMAI, Kunitoshi; UWAI, Kouji; TOKIWA, Michio; TAKESHITA, Mitsuhiro; NAKANO, Hiroto
- 3PB-053** Catalytic Asymmetric Synthesis of Thiochromanyl-spirooxindoles Using Bis(imidazolidine)pyridine (PyBidine)-metal Complex (Grad. Sch. Sci., Chiba Univ.) ○MIYAZAKI, Tomoya; OGAWA, Hiroki; ARAI, Takayoshi
- 3PB-054** Synthesis of Diazole derivatives with Silyl group (Grad. Sch. Eng., Kyushu Sangyo Univ.) ○KENSUKE, Naomoto; SHIN-ICHIRO, Isobe
- 3PB-055** Synthesis and application of new short-wavelength fluorescent bio-reagent. (Grad. Sch. Eng., Kyushu Sangyo Univ.) ○FU, Wenqiang; ISOBE, Shin-ichiro
- 3PB-056** Synthesis of oxadiazolopyridine derivatives introduced hydrophilic group. (Grad. Sch. Eng., Kyushu Sangyo Univ.) ○YAMASAKI, Toshiki; ISOBE, Shin-ichiro
- 3PB-057** Synthesis and application of oxadiazolopyridine derivatives having a hydroxyl group. (Grad. Sch. Eng., Kyushu Sangyo Univ.) ○HUI, Yan; ISOBE, Shin-ichiro
- 3PB-058** Selective synthesis of heterocycles by cyclization of *N*-acylthioureas with present of acid or base (Fac. Eng., Chiba Univ.) UEMURA, Naohiro; ○SAITO, Rei; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami
- 3PB-059[#]** Construction of self-replicating system using pyrrolidine derivative as a organocatalyst (Fac. Eng., Univ. of Fukui) UEDA, Masahiro; ○OKUMA, Yukari; OKADA, Kouki; KIMURA, Masaki; MIYAGAWA, Shinobu; KAWASAKI, Tsuneomi; TOKUNAGA, Yuji
- 3PB-060** A Facile Synthesis of 2-Isioxazoline Derivatives in the Presence of NaHSO₄ (Coll. Sci. Tech., Nihon Univ.) ○HANZAWA, Takuya; MORIMOTO, Naoki; MEGURO, Natsumi; MURAMATSU, Mizuki; HAYAKAWA, Mamiko; AOYAMA, Tadashi; ITOH, Ken-ichi; OUCHI, Akihiko
- 3PB-061** Synthesis and Application of Chiral Bisphosphine Ligands with Dihydrobenzofuran Backbone (Grad. Sch. Eng., Chiba Univ.) MINO, Takashi; ○MIZUTANI, Yuki; MIURA, Kazuki; YOSHIDA, Yasushi; SAKAMOTO, Masami

Organic Chemistry -Reaction and Synthesis-Organic Electron Transfer Chemistry

- 3PB-063** Studies on multicolor bioluminescence materials reacting with wild firefly luciferase (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○HIGASHI, Shoko; SAITO, Ryohji; MORIMITSU, Rei; KIYAMA, Masahiro; KITADA, Nobuo; HIRANO, Takashi; MAKI, Shojiro
- 3PB-064** Synthesis of a Novel Viologen Dendrimer (V.D.) and Homo-

Coupling Reaction of Aryl Halide Using V.D./Pd System. (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KOJIMA, Atsuki; KUROBOSHI, Manabu; TANAKA, Hideo

3PB-065 Study of photoinduced proton-coupled electron transfer in 2-(2-pyridyl)-4,7-benzimidazolequinone (Grad. Sch. Chem. Sci. Technol., TUS)

○YOSHIDA, Takeaki; KURAMOCHI, Yusuke; SATAKE, Akiharu

3PB-066 wavelength control of luciferin analogs by allyl group (The Univ. of Electro-Communications) ○KITADA, Nobuo; KIYAMA, Masahiro; SAITO, Ryohei; IWANO, Satoshi; SAITO, Tsuyoshi; NISHIYAMA, Shigeru; NIWA, Haruki; HIRANO, Takashi; MAKI, Shojiro

Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis

3PB-069 Fine Bubble Hydrogenation: Evaluation of FB-Promoting Mechanism (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○IIO, Takuya; SATO, Kohei; NARUMI, Tetsuo; WATANABE, Naoharu; MASE, Nobuyuki

3PB-070 Reaction Mechanism of Aerobic Alcohol Oxidation in Barrel (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.) ○YOSHIDA, Yuya; IMOTO, Kyosuke; SATO, Kohei; NARUMI, Tetsuo; WATANABE, Naoharu; MASE, Nobuyuki

3PB-071 Fine Bubble Flow Method: Continuous Hydrogenation of Carbon-Carbon Multiple Bond (Grad. Sch. Integr. Sci. Eng., Shizuoka Univ.)

○NAGAI, Kohei; SATO, Kohei; NARUMI, Tetsuo; WATANABE, Naoharu; MASE, Nobuyuki

3PB-072 Regioselective synthesis of [70]PCBM for organic photovoltaics by flow reaction system (Osaka Municipal Technical Research Institute; Grad. Sch. Sci. Tech., Ryukoku Univ.) ○INOUE, Yuta; IWASAWA, Tetsuo; ITO, Takatoshi; IWAI, Toshiyuki; SUMINO, Shuhei; MATSUMOTO, Fukashi; OHNO, Toshinobu

3PB-073[#] Synthesis of fluorine compounds at interface of two phase flow in flow microreactors (Grad. Sch. Mat. Sci., NAIST) ○NAKANO, Momoe; NISHIYAMA, Yasuhiro; KAKIUCHI, Kiyomi

3PB-074[#] Spatial separation of two incompatible catalysts utilizing $M_{12}L_{24}$ spherical framework (Grad. Sch. Eng., The Univ. of Tokyo) ○ITO, Hiroaki; UEDA, Yoshihiro; FUJITA, Daishi; FUJITA, Makoto