

Poster Presentations

- P-01** **Electroreductive Generation of Aryl Radical and Its Cyclization onto Alkenes, Alkynes, and Allenes Followed by Fixation of CO₂**
Asahi Katayama, Jun-ya Michinishi, Huanran Liu, Hisanori Senboku and Shoji Hara
- P-02** **Hg-free Olefination of β -Acetoxy Sulfones by Electrochemical Reduction**
Yuto Suzuki, Asahi Katayama, Hisanori Senboku and Shoji Hara
- P-03** **Copper(I)-Catalyzed Enantioselective Borylative Dearomatization of Indoles**
Koji Kubota, Keiichi Hayama, Hiroaki Iwamoto and Hajime Ito
- P-04** **Copper(I)-Catalyzed Enantioselective γ -Boryl Substitution Reaction of Allyl Amines**
Yuta Takenouchi and Hajime Ito
- P-05** **Enantioselective Synthesis of 3-Arylbenzofuranone Derivatives by Ruthenium/Me-BIPAM-Catalyzed Addition of Arylboronic Acids**
Masaaki Yohda and Yasunori Yamamoto
- P-06** **Suzuki–Miyaura Cross-Coupling Reactions of Cyclopropyltrioleborate Salt with Heteroaryl Halides**
Shunsuke Suganuma and Yasunori Yamamoto
- P-07** **Double Asymmetric Hydrogenation of β,β -Disubstituted α,β -Unsaturated Ketones Catalyzed by Ruthenium(II) Complex**
Ryo Komatsu, Hironori Satoh, Noriyoshi Arai and Takeshi Ohkuma
- P-08** **Asymmetric Hydrogenation of *N*-Benzyloximes Catalyzed by Skewphos-diamine/Ru(II) Complexes**
Rina Yamada, Noriyoshi Arai and Takeshi Ohkuma
- P-09** **Phosphine-Catalyzed *Anti*-Selective Carboboration of Alkynoates with Organoboranes**
Kazunori Nagao, Hirohisa Ohmiya and Masaya Sawamura
- P-10** **Development of a Silica-Supported Triptycene-Type Phosphine and Its Application to Pd-Catalyzed Suzuki–Miyaura Coupling of Chloroarenes**
Shota Konishi, Tomohiro Iwai, Tatsuya Miyazaki, Soichiro Kawamorita, Natsumi Yokokawa, Hirohisa Ohmiya and Masaya Sawamura
- P-11** **Preparation and Dynamic Redox Behaviors of Novel Electron Donors Containing Perfluoro Multi-Dyrex Units**
Hitomi Tamaoki, Ryo Katoono, Kenshu Fujiwara and Takanori Suzuki
- P-12** **Dynamic Double Helices : Control of a Screw-sense Preference upon Complexation**
Ryo Katoono, Shunsuke Kawai, Yusuke Ishigaki and Takanori Suzuki
- P-13** **Synthesis of Ru-immobilized Periodic Mesoporous Organosilica and Application for Selective Oxidation of Alkanes**
Nobuhiro Ishito, Hirokazu Kobayashi, Kiyotaka Nakajima, Yoshifumi Maegawa, Shinji Inagaki, Kenji Hara and Atsushi Fukuoka
- P-14** **Hydrolytic Hydrogenation of Chitin by Supported Metal Catalyst**
Kota Techikawara, Hirokadzu Kobayashi and Atsushi Fukuoka

- P-15 Chirality Induction to Polythiophene Derivatives Using Circularly Polarized Light**
Yue Wang and Tamaki Nakano
- P-16 Polymerization of a Cyclic Sugar Sulfite Leading to an Artificial Polysaccharide**
Sangeetha S. Shetty, Yasuhito Koyama and Tamaki Nakano
- P-17 Direct Amidation of Esters and Carboxylic Acids by Niobium Oxide Catalyst**
Md. Ayub Ali, S. M. A. Hakim Siddiki, Kenichi Kon and Ken-ichi Shimizu
- P-18 Acceptorless Dehydrogenation of Nitrogen Heterocycles by Supported Pt Catalyst**
Sondomoyee Konika Moromi, S. M. A. Hakim Siddiki and Ken-ichi Shimizu
- P-19 Theoretical Study on the Electronic Effect in Solvatochromism: Wave Function and Effective Fragment Potential Approaches**
Kazuma Yanai, Kazuya Ishimura, Mark S. Gordon and Jun-ya Hasegawa
- P-20 Mechanism of Ethylene Oxidation by Pt Catalyst Supported on Mesoporous Silica: a Theoretical Study**
Ray Miyazaki, Naoki Nakatani, Takuro Yokoya, Kiyotaka Nakajima, Atsushi Fukuoka and Jun-ya Hasegawa
- P-21 Production of Lighter Fuels by Cracking of Heavy Oil with Titania and Zirconia Mixed Catalyst under Superheated Steam Condition**
Hisaki Kondoh, Natsumi Hasegawa, Takuya Yoshikawa, Yuta Nakasaka, Teruoki Tago and Takao Masuda
- P-22 Kinetics of Catalytic Cracking of Naphtha's Representatives over ZSM-5 Zeolites with Different Crystal Sizes**
Kenta Muramoto, Ryota Ohnaka, Takuya Yoshikawa, Yuta Nakasaka, Teruoki Tago and Takao Masuda
- P-23 Application of a Carbon Cryogel with a Microhoneycomb Structure for the Separation of Phenol in a Continuous Flow System**
Seiichiro Yoshida, Shinichiroh Iwamura, Isao Ogino and Shin R. Mukai
- P-24 Preparation of PMMA-templated Carbons with Ultra-high Surface Area through CO₂ Activation**
Takeshi Mori, Shinichiroh Iwamura, Isao Ogino and Shin R. Mukai
- P-25 Carbon Dioxide and Water: An Effective Multiphase Medium for Selective Hydrogenation of Benzyl Cyanide with a Pd/Al₂O₃ Catalyst**
Ashvini Bhosale, Shin-ichiro Fujita and Masahiko Arai
- P-26 Nitrogen-doped Metal-free Carbon Catalysts Having Various Functions**
Sayaka Asano, Shinichiro Fujita and Masahiko Arai
- P-27 Reduction Rate and Crushing Strength of Composites Prepared from Cold-bonded-pellet and COG Tar**
Yusuke Mikawa, Yuuki Mochizuki and Naoto Tsubouchi
- P-28 Influence of Inherent Oxygen Species on the Fluidity of Coal during Carbonization**
Ryo Naganuma, Yuuki Mochizuki and Naoto Tsubouchi

- P-29** **Quantum Chemical Investigation on the Mechanism of Ligand Coupling Reactions of Hypervalent Sb Compounds**
Yusuke Kuroda, Masato Kobayashi, Kin-ya Akiba and Tetsuya Taketsugu
- P-30** **Exploration of Crystal Structures by Artificial Force Induced Reaction Method: Applications to Carbon Crystal**
Makito Takagi, Satoshi Maeda and Tetsuya Taketsugu
- P-31** ***In-situ* SERS Observation of Molecular Motion in Localized Surface Plasmon Field**
Yumi Wakisaka, Hiro Minamimoto and Kei Murakoshi
- P-32** **Photophysical Properties of Hexamolybdenum(II) Clusters Having Apical Carboxylate Ligands**
Soichiro Akagi, Sho Fujii and Noboru Kitamura
- P-33** **Photocatalytic Hydrogen Evolution Reaction Driven by CdSe Quantum Dot: the Role of Surface Passivating Ligand**
Kana Sawaguchi, Atsushi Kobayashi, Masaki Yoshida and Masako Kato
- P-34** **Shape-Memory Platinum(II) Complex: Intelligent Vapor-History Sensor with ON-OFF Switching Function**
Yasuhiro Shigeta, Masaki Yoshida, Atsushi Kobayashi and Masako Kato
- P-35** **Unique Ferroelectricity Found in Plastic Ionic Crystals**
Hideaki Oyamaguchi, Takafumi Shimojo, Jun Harada, Hiroyuki Hasegawa, Yukihiro Takahashi and Tamotsu Inabe
- P-36** **Charge Conduction Properties at the Contact Interface between Electron Donor and Acceptor Single Crystals**
Takuro Shimada, Yukihiro Takahashi, Hiroyuki Hasegawa, Jun Harada and Tamotsu Inabe
- P-37** **Light-Induced Mechanical Self-Oscillation of a Co-Crystal: Coupling of Photoisomerization and Phase Transition**
Tomonori Ikegami, Yoshiyuki Kageyama and Sadamu Takeda
- P-38** **Design and Synthesis of a Redox-active Molecule with Variable Volume to Trigger the Macroscopic Motion of Self-assembly**
Yuta Kurokome, Yoshiyuki Kageyama and Sadamu Takeda
- P-39** **Fabrication and Plasmonic Behavior of Gold Nanoparticle Vesicle-Like Assembly in Solution**
Jinjian Wei, Kenichi Niikura, Hideyuki Mitomo, Yasutaka Matsuo and Kuniharu Ijiro
- P-40** **Adjuvant Activity Enhancement of Poly(I:C) by Conjugation with Gold Nanoparticles**
Taiyu Tazaki, Kenichi Niikura, Tadaki Suzuki, Akira Ainai, Yuki Ohara, Shintaro Kobayashi, Yasuko Orba, Hideyuki Mitomo, Hirofumi Sawa and Kuniharu Ijiro
- P-41** **Magnetic and Neutron Diffraction Studies on New Melilite-type Compounds**
Takashi Endo, Yoshihiro Doi, Makoto Wakeshima and Yukio Hinatsu
- P-42** **Crystal Structures and Magnetic Properties of Pseudo-one-dimensional Molybdenum Oxides $Ln_5Mo_2O_{12}$ ($Ln = Y, Dy - Lu$)**
Masayuki Miura, Makoto Wakeshima and Yukio Hinatsu

- P-43** **Crystal Structure of Dielectric Oxynitrides $\text{La}_{1-x}\text{Sr}_x\text{TiO}_{2+x}\text{N}_{1-x}$**
Daiki Habu, Yuji Masubuchi and Shinichi Kikkawa
- P-44** **Sintering of SrTaO_2N Perovskite Oxynitride with SrCN_2 Sintering Additive**
Akira Hosono, Yuji Masubuchi and Shinichi Kikkawa
- P-45** **All-Solid-State Lithium Secondary Batteries using NiPS_3 Electrode and Sulfide-Based Solid Electrolyte**
Yuta Fujii, Akira Miura, Mikio Higuchi and Kiyoharu Tadanaga
- P-46** **Synthesis and Scintillation Properties of $\text{LiCaBO}_3:\text{Ce}$**
Saki Toyoda, Mikio Higuchi, Youichi Tsubota, Junichi H. Kaneko and Kiyoharu Tadanaga
- P-47** **Chemical Vapor Deposition of MoS_2 Nanowires**
Mengting Weng, Takashi Yanase, Taro Nagahama and Toshihiro Shimada
- P-48** **Plasma CVD Synthesis of Doped Diamonds and Related Materials by Solid-source Immersion Technique**
Takahiro Tamura, Takashi Yanase, Taro Nagahama and Toshihiro Shimada
- P-49** **Proton Conducting Lanthanide Phosphate Glasses for Intermediate-temperature Fuel Cell**
Atsushi Miyazaki, Takuya Kinoshita, Takuya Yamaguchi, Hideo Kaiju, Takahisa Omata and Junji Nishii
- P-50** **Magnetic Properties of $\text{Ni}_{78}\text{Fe}_{22}$ Thin Films Sandwiched between Glasses and Nanoscale Electronic Conduction through Alq_3 in Spin Quantum Cross Devices**
Sumito Mori, Takahiro Misawa, Kousuke Nakamura, Masaya Fujioka, Hideo Kaiju and Junji Nishii
- P-51** **Stability of a Conductive State of Poly(3-alkoxy-4-methylthiophene)s**
Shin Takagi and Hitoshi Koizumi
- P-52** **Influence of Fluoride Enrichment on the Formation of Nanotubes on Iron**
Khurram Shahzad, Etsushi Tsuji, Yoshitaka Aoki and Hiroki Habazaki
- P-53** **Photophysical Properties of Seven-coordinate Lanthanide Complex**
Kei Yanagisawa, Takayuki Nakanishi, Yuichi Kitagawa, Koji Fushimi and Yasuchika Hasegawa
- P-54** ***In vitro* Study of Microtubule Dynamics in the Presence/Absence of ROS**
Md. Sirajul Islam, Arif Md. Rashedul Kabir, Daisuke Inoue, Kazuki Sada and Akira Kakugo
- P-55** **Effect of Microtubule Deformation on Biomolecular Motor Protein-based Cargo Transportation *In Vitro***
Tanjina Afrin, Arif Md. Rashedul Kabir, Daisuke Inoue, Kazuki Sada and Akira Kakugo
- P-56** **Programming of Swarm Robot Based on DNA Processed Biomolecular Motor System**
Jakia Jannat Keya, Ryuhei Suzuki, Arif Md. Rashedul Kabir, Daisuke Inoue, Kazuki Sada, Akinori Kuzuya and Akira Kakugo

- P-57** **Collective Motion of Microtubules in Presence and Absence of External Indentation Stress**
Tamanna Ishrat Farhana, Arif Md. Rashedul Kabir, Daisuke Inoue, Kazuki Sada and Akira Kakugo
- P-58** **Structure Designing of Polymer Gels via Crystal Cross-Linking of Metal-Organic Framework**
Takumi Ishiwata, Kenta Kokado and Kazuki Sada
- P-59** **Novel Inhibitors Specific for PPM1D Repress Breast Cancer Cell Proliferation**
Yuhei Kiyota, Sari Ogasawara, Rui Kamada, Fumihiko Yoshimura, Keiji Tanino and Kazuyasu Sakaguchi
- P-60** **Heme-dependent Regulation Mechanism of Iron Regulatory Proteins (IRPs) by Cell-based Reporter Assay**
Yuta Watanabe, Yukiko Takeda, Takeshi Uchida, Kazuhiro Iwai and Koichiro Ishimori
- P-61** **Spectral Characterization of a Sensor Protein for the Iron Homeostasis in Cells**
Mariko Ogura, Takeshi Uchida, Kazuhiro Iwai and Koichiro Ishimori
- P-62** **Molecular Mode of Folding and Assembly of Nonmuscle Myosin II**
Eri Hamada, Masayuki Takahashi and Yota Murakami
- P-63** **Calcineurin-binding Proteins, RanBP3 and CaNBP75 Regulate Activity of Calcineurin *in vivo***
Naoki Okada, Anna Araki, Kei Sasaki, Kana Arimoto, Akiko Nakatomi and Yota Murakami
- P-64** **Simple Fabrication Technique for Paper-Based Microfluidic Devices**
Saeed Mohammadi, Masatoshi Maeki, Akihiko Ishida, Hirofumi Tani and Manabu Tokeshi
- P-65** **A Competitive Immunoassay Approach for Aflatoxin B₁ Detection on Microfluidic Paper Devices**
Lori Shayne Alamo Busa, Masatoshi Maeki, Akihiko Ishida, Hirofumi Tani and Manabu Tokeshi
- P-66** **Genome Mining for Novel Fungal Metabolites: Biosynthetic Study of Sesterterpenes**
Ying Ye, Atsushi Minami and Hideaki Oikawa
- P-67** **Study on Mechanisms of Multiple Oxidative Modifications in the Ophibolin Biosynthesis**
Koji Narita, Ryota Chiba, Atsushi Minami, Motoichiro Kodama, Katsuya Gomi and Hideaki Oikawa
- P-68** **Studies Directed Toward the Total Synthesis of Brasilicardin A**
Ryusei Itoh, Makoto Torizuka, Genki Mori, Fumihiko Yoshimura and Keiji Tanino
- P-69** **Synthesis of Mikroarm Star Block-copolymers using End-functionalized Poly(methyl methacrylate)s as Macroinitiators**
Eric Ofosu-Twum, Yougen Chen, Shin-ichiro Sato, Toshifumi Satoh and Toyoji Kakuchi

- P-70 MD Simulation for Aqueous Solution of Thermoresponsive Amphiphilic Polyisocyanate**
Shunsuke Mizutani, Naoya Sakai, Toyoji Kakuchi and Shin-ichiro Sato
- P-71 Synthesis of Amphiphilic Trefoil-shaped Block Copolyether using *t*-Bu-P₄-catalyzed Ring-opening Polymerization**
Yusuke Satoh, Hirohiko Matsuno, Kana Miyachi, Takuya Isono, Kenji Tajima, Toyoji Kakuchi and Toshifumi Satoh
- P-72 Poly(D-lactate-co-D-hydroxybutyrate) Degradation Mechanism by Soil Bacterium Depolymerase**
Camila Utsunomia, Jian Sun, Ken'ichiro Matsumoto, Toshihiko Ooi and Seiichi Taguchi
- P-73 Microbial Synthesis of Glycolate-based Polyester and Evaluation of Its Hydrolytic Degradability**
Yuki Kudo, Yukikazu Hiraide, Ken'ichiro Matsumoto and Seiichi Taguchi
- P-74 Effect of the Number of Acyl Carrier Protein Domains in Polyunsaturated Fatty Acids (PUFA) Synthase on PUFA Productivity**
Shohei Hayashi, Yasuharu Satoh and Tohru Dairi
- P-75 Exploring Novel Peptide Ligase Orthologs in Actinobacteria.**
Junpei Kawata, Yasushi Ogasawara, Motoyoshi Noike and Tohru Dairi
- P-76 Effect of EGCG Addition on the Accumulation of Type-II Collagen in MSC-derived Cartilage-like Sheet**
Keigo Sato, Hisashi Mera, Shigeyuki Wakitani and Mutsumi Takagi
- P-77 Growth Cultivation of Bone Marrow Mesenchymal Stem Cells Employing Polyester Nonwoven Fabric Carrier**
Kyosuke Yamada, Hisashi Mera, Shigeyuki Wakitani and Mutsumi Takagi
- P-78 EDAC Eliminates Transformed Cells by Inducing Metabolic Changes.**
Kojiro Ishibashi, Shunsuke Kon and Yasuyuki Fujita
- P-79 Identification of the Molecules That Regulate Scribble Knockdown -mediated Cell Competition**
Nanami Satoh and Yasuyuki Fujita
- PSV-01 Construction and Control of Metal-semiconductor Nanostructure Exhibiting Conversion**
Xiaowei Li
- PSV-02 Development of Aluminum-air Battery using an Ionic Liquid Electrolyte to Control Self-discharging Process**
Toshi Oguma
- PSV-03 Development of Layered Substrates for Thermoelectric Modules**
Taisei Kobayashi
- PSV-04 Synthesis and Photophysical Property of Lanthanide Complexes with Multi-dentate Ligand**
Yuichi Hirai

- PSV-05** **Structure Analysis of Oligomeric Protein by NMR**
Natsumi Nakagawa
- PSV-06** **Total Synthesis of Palau'amine**
Kohei Takeuchi
- PSV-07** **Synthesis of PSt-*b*-PMMA Possessing Pendant Olefin Groups
via Living Anionic Polymerization**
Kodai Watanabe
- PSV-08** **Synthesis and Memory Device Characteristics of P3HT-*b*-PBA**
Shoichi Takashima