Lists of Poster Presentations
Polymer concentration dependence of optical reorientation behavior in oligothiophene-doped polymer-stabilized liquid crystals
J. Wang, Y. Aihara, M. Kinoshita, J. Mamiya, A. Shishido* (Tokyo Tech., Chemical Resources Lab.)

Surface deformation analysis of bending film by a surface labeled grating method
W. Tashiro¹, N. Akamatsu¹, J. Mamiya¹, M. Kinoshita¹, S. Fujikawa², A. Shishido¹* (¹Chemical Resources Laboratory, Tokyo Institute of Technology, ²International Institute for Carbon-Neutral Energy Research (WPI-I2CNER), Kyushu University)

Photomanipulation of Liquid-Crystalline Alignment in Fluorescent Dye-Doped Systems
M. Kinoshita (Chemical Resources Laboratory, Tokyo Institute of Technology)

Synthesis and Dynamic Motion of Molecular Multiple Spur Gears with a 4,6-Bis(2-hydroxyphenyl)-2-hexylpyrimidinyl Backbone
Y. Tsuchido, Y. Suzuki, K. Osakada* (Chemical Resources Laboratory, Tokyo Institute of Technology)

Synthesis and Fluorescent Properties of Molecular Nanotubes Containing Four Anthracene Rings
K. Hagiwara, M. Akita, M. Yoshizawa* (Chemical Resources Laboratory, Tokyo Institute of Technology)

Ordered Carbazole Stacks in a Metal-Organic Framework
J. K. Klosterman* (Department of Chemistry, Center for Photochemical Sciences, Bowling Green State University)

Tunable Near Infrared Emission by Host-Guest Interaction of Molecular Tweezers
Y. Tanaka, K. M.-C. Wong, V. W.-W. Yam* (Chemistry Department, The University of Hong Kong, Hong Kong)

Redox-responsive self-healing materials formed from host–guest polymers
M. Nakahata¹, Y. Takashima¹, H. Yamaguchi¹, A. Harada¹,²* (¹Graduate School of Science, Osaka University, ²JST-CREST)

Redox-generated mechanical motion of a supramolecular polymeric actuator based on host–guest interactions
M. Nakahata¹, Y. Takashima¹, A. Hashidzume¹, A. Harada¹,²* (¹Graduate School of Science, Osaka University, ²JST-CREST)
P-10
Reversible Self-Assembly of Gels through Metal-Ligand Interactions
Y. Kobayashi¹, Y. Takashima¹, A. Hashidzune¹, H. Yamaguchi¹, A. Harada¹,² * (¹Graduate School of Science, Osaka University, ²JST CREST)

P-11
Formation of Supramolecular Hydrogels using Inclusion Complexes and Self-healing Properties
T. Kakuta¹, Y. Takashima¹, M. Nakahata¹, M. Otsubo¹, H. Yamaguchi¹, A. Harada¹,² * (¹Graduate School of Science, Osaka University, ²JST CREST)

P-12
Highly Stretching Hydrogels through Host-Guest Interaction and Functional Properties
T. Kakuta¹, Y. Takashima¹, A. Harada¹,² * (¹Graduate School of Science, Osaka University, ²JST CREST)

P-13
Selective Formation and Stepwise Deslippage of a-Cyclodextrin based Size-complementary [3]Rotaxane
Y. Akae, Y. Koyama, T. Takata* (Department of Organic and Polymeric Materials, Tokyo Institute of Technology)

P-14
Control of Helical Conformation of Poly(m-diethynylbenzene) Using A Rotaxane Switch with Molecular Chirality
S. Suzuki, F. Ishiwari, K. Nakazono, T. Takata* (Department of Organic and Polymeric Materials, Tokyo Institute of Technology)

P-15
Novel Synthesis of Polyrotaxane Networks Using a Pd-containing Bismacroyclic Cross-linker
M. Ogawa, Y. Koyama, S. Uchida, T. Takata* (Department of Organic and Polymeric Materials, Tokyo Institute of Technology)

P-16
Highly Conductive [3×n] Gold Ion Clusters Templated by Coordination Cages
T. Osuga¹, R. Tanaka¹, T. Murase¹, J. Inatomi², Y. Takahashi², M. Kiguchi², M. Fujita*¹ (¹Department of Applied Chemistry, School of Engineering, The University of Tokyo, ²Department of Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology)

P-17
Chromism via Cavity-Directed Structural Transformations within Td-Symmetric Coordination Cages
H. Takezawa, S. Akiba, T. Murase, and M. Fujita* (Department of Applied Chemistry, School of Engineering, The University of Tokyo)

P-18
Development of Novel Supramolecular Fiber based on Corannulene
J. Kang¹,², D. Miyajima², T. Aida¹,² * (¹Department of Chemistry and Biotechnology, School of Engineering, The University of Tokyo, ²Emergent Soft Matter Research Group, Riken)
P-19
Guest-Induced Modulation of Pincer-shaped Liquid Crystalline Molecules
Y. Shibuya, Y. Itoh,* T. Aida* (Department of Chemistry and Biotechnology, Graduate School of Engineering, The University of Tokyo,)

P-20
Synthesis of a Dendrimer Reactor for Cluster with a Magic Number
H. Kitazawa, K. Albrecht, K. Yamamoto (Chemical Resources Laboratory, Tokyo Institute of Technology)

P-21
Microcontact Printing of Carbon Nanotube/Acrylic Resin Composite Films with Electrical Conductivity
H. Ogihara,* H. Kibayashi, I. Yamanaka, T. Saji (Department of Chemistry & Materials Science, Tokyo Institute of Technology)

P-22
Development of the Metal Complex and Mesoporous Organosilica Hybrid System as Photocatalysts with Light Harvesting Function

P-23
Development of New Coupling Methods of Photofunctional Metal Complexes
Y. Yamazaki, T. Morimoto, O. Ishitani (Tokyo Institute of Technology, PRESTO/JST, ALCA/JST)

P-24
Conformational change of the γ subunit regulates the ATP hydrolysis activity of cyanobacterial ATP synthase
E.I. Sunamura, H. Konno, M. Imashimizu, M. Mochimaru, T. Hisabori* (Chemical Resources Laboratory, Tokyo Institute of Technology, Imaging Research Division, Bio-AFM Frontier Research Center, Kanazawa University, Department of Natural Sciences, Komazawa University, JST-CREST)

P-25
Synthetic study of bis-sialylated N-glycan motifs using efficient α-sialylation
J. Zhou, Y. Manabe, K. Tanaka, K. Fukase* (Department of Chemistry, Graduate School of Science, Osaka University, RIKEN Advanced Science Institute)

P-26
Biosynthesis of various azoline-containing compounds by an engineered posttranslational cyclodehydratase
S. Tsunoda, Y. Goto, H. Suga* (Department of Chemistry, Graduate School of Science, The University of Tokyo, PRESTO, JST)

P-27
Encoding multiple non-proteinogenic amino acids by artificial division of the genetic code framework
Y. Iwane, A. Hitomi, Y. Goto, T. Katoh, H. Murakami, H. Suga* (Department of Chemistry, Graduate School of Science, The University of Tokyo, Department of Chemistry and Biotechnology, Graduate School of Engineering, The University of Tokyo, Research Center for Advanced Science and Technology, The University of Tokyo)
Co-catalyzed cross-coupling of alkyl halides with alkyl Grignard reagents
T. Iwasaki¹, H. Takagawa¹, J. Terao², H. Kuniyasu³, N. Kambe¹* (¹Department of Applied Chemistry, Graduate School of Engineering, Osaka University, ²Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto University)

Nickel-Catalyzed Four-Component Coupling Reaction of 1,3-Butadiene, Alkyl Fluorides and Aryl Grignard Reagents Through Dimerization of 1,3-Butadiene
A. Fukuoka¹, T. Iwasaki¹, J. Terao², H. Kuniyasu¹, N. Kambe¹* (¹Department of Applied Chemistry, Graduate School of Engineering, Osaka University, Suita; ²Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto University)

Synthesis of 3,7-Dialkylbenzo[1,2-b:4,5-b’]dithiophene and Its Alkylthio and Alkoxy Analogues
S. Ota, S. Minami, K. Hirano, T. Satoh, S. Seki,* M. Miura* (Department of Applied Chemistry, Faculty of Engineering, Osaka University)

Synthesis of Fluorene Derivatives through Transition-Metal-Catalyzed Intramolecular Dehydrogenative Cyclization
M. Itoh¹, K. Hirano¹, T. Satoh¹,²*, Y. Shibata³, K. Tanaka²,³, M. Miura¹* (¹Department of Applied Chemistry, Faculty of Engineering, Osaka University, ²JST, ACT-C, ³Department of Chemistry, Graduate School of Engineering, Tokyo University of Agriculture and Technology)

Regioselective Oxytrifluoromethylation of Alkenes by Photoredox Catalysis
Y. Yasu, T. Koike,*, M. Akita* (Chemical Resources Laboratory, Tokyo Institute of Technology)

Catalysis Inside Cages
S. H.A.M. Leenders, J. N.H. Reek* (Van ’t Hoff Institute for Molecular Science, University of Amsterdam)

Transformation of Carbon Dioxide to Silyl Formate Catalyzed by Copper-Diphosphine Complexes with Polymethylhydrosiloxane
K. Motokura*, D. Kashiwame, N. Takahashi, A. Miyaji, T. Baba (Department of Environmental Chemistry and Engineering, Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology)

Selective Production of Lactic Acid from Triose over Phosphate/TiO₂ with Water-Tolerant Lewis Acid sites
K. Nakajima¹,², M. Kitano³, M. Hara¹,²* (¹Materials and Structures Laboratory, Tokyo Institute of Technology, ²JST- PRESTO, ³Material Research Center for Element Strategy, Tokyo Institute of Technology, ²JST-ALCA)
Titanium Tetrahedra on Mesoporous Titanosilicates Acting as Lewis Acid sites Workable in Water
H. Shintaku\textsuperscript{1}, K. Nakajima\textsuperscript{1,2}, M. Kitano\textsuperscript{3}, M. Hara\textsuperscript{1,4}\textsuperscript{*} (\textsuperscript{1}Materials and Structures Laboratory, Tokyo Institute of Technology, \textsuperscript{2}JST- PRESTO, \textsuperscript{3}Material Research Center for Element Strategy, Tokyo Institute of Technology, \textsuperscript{4}JST-ALCA)

FT-IR study on the reaction mechanism of the initial state of methanol-to-olefins
H. Yamazaki, T. Yokoi, T. Tatsumi, J. N. Kondo\textsuperscript{*} (Chemical Resources Laboratory, Tokyo Institute of Technology)

Cooperative effect of Lewis and Brønsted acid sites on Beta zeolites in dehydration of sugars
R. Otomo, T. Yokoi, J. N. Kondo, T. Tatsumi\textsuperscript{*} (Chemical Resources Laboratory, Tokyo Institute of Technology)

Control of acid site distribution in the pores of H-ZSM-5 zeolite
H. Mochizuki, T. Yokoi, J. N. Kondo, T. Tatsumi\textsuperscript{*} (Chemical Resources Laboratory, Tokyo Institute of Technology)

Effect of additives on the phenol oxidation with hydrogen peroxide over Ti-MCM-68 catalyst
S. Inagaki, Y. Tsuboi, K. Mamiya, Y. Kubota\textsuperscript{*} (Division of Materials Science and Chemical Engineering, Yokohama National University)

Copper-Catalyzed Carboxylation of Aryl Aluminum Species Generated by C-H Bond Activation of Functionalized Arenes.
A. Ueno\textsuperscript{1,2}, M. Takimoto\textsuperscript{1}, T. Ikariya\textsuperscript{2}, Z. Hou\textsuperscript{1}\textsuperscript{*} (\textsuperscript{1}RIKEN Advanced Science Institute, Organometallic Chemistry Laboratory, \textsuperscript{2}Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology)

Palladium-catalysed selective oxidation of $\alpha,\beta$-unsaturated aldehydes to $\alpha,\beta$-unsaturated carboxylic acids with hydrogen peroxide
Y. Kon, D. Imao, K. Sato\textsuperscript{*} (Interdisciplinary Research Center for Catalytic Chemistry, National Institute of Advanced Industrial Science and Technology)

Efficient Heterogeneous Epoxidation of Alkenes by W-Zn/SnO\textsubscript{2} Catalyst
S. Nojima\textsuperscript{1}, K. Kamata\textsuperscript{1}, K. Yonehara\textsuperscript{2}, Y. Sumida\textsuperscript{2}, K. Hirata\textsuperscript{2}, N. Mizuno\textsuperscript{1}\textsuperscript{*} (\textsuperscript{1}Department of Applied Chemistry, School of Engineering, the University of Tokyo, \textsuperscript{2}Advanced Materials Research Center, Nippon Shokubai Co., Ltd)
P-44
Development of a graphitic carbon nitride thin film
H. Arazoe\textsuperscript{1,2}, D. Miyajima\textsuperscript{1}, T. Aida\textsuperscript{1,3,*} (\textsuperscript{1}Emergent Soft Matter Research Group, Riken,\textsuperscript{2} Department of Pure and Applied Chemistry, Tokyo University of Science, \textsuperscript{3}Department of Chemistry and Biotechnology, School of Engineering, The University of Tokyo)

P-45
Microwave effects on one electron transfer from metal particles to viologen derivatives
T. Imai, H. Matsui, D. Mochizuki, M. M. Maitani, E. Suzuki, Y. Wada* (Department of Applied Chemistry, Tokyo Institute of Technology)

P-46
Microwave Effect on Catalytic Dehydrogenation of Ethylbenzene on Magnetite
N. Haneishi, D. Mochizuki, M.M. Maitani, E. Suzuki, Y. Wada* (Department of Applied Chemistry, Tokyo Institute of Technology)

P-47
Synthesis of Carbon-filled-Zeolite@Zeolite core-shell catalyst and its application for the microwave reaction
R. Sasaki, D. Mochizuki, M. Maitani, E. Suzuki, Y. Wada* (Department of Applied Chemistry, Tokyo Institute of Technology)

P-48
Phosgene free synthesis of diphenyl carbonate by Pd electrocatalyst
R. Kanega\textsuperscript{1}, H. Ogihara\textsuperscript{2}, I. Yamanaka\textsuperscript{2,*} (\textsuperscript{1}Department of Applied Chemistry, Tokyo Institute of Technology, \textsuperscript{2}Department of Chemistry and Materials Science, Tokyo Institute of Technology, Japan)