

The Chemical Society of Japan 94th Spring Annual Meeting

— Program for Presentations in English —

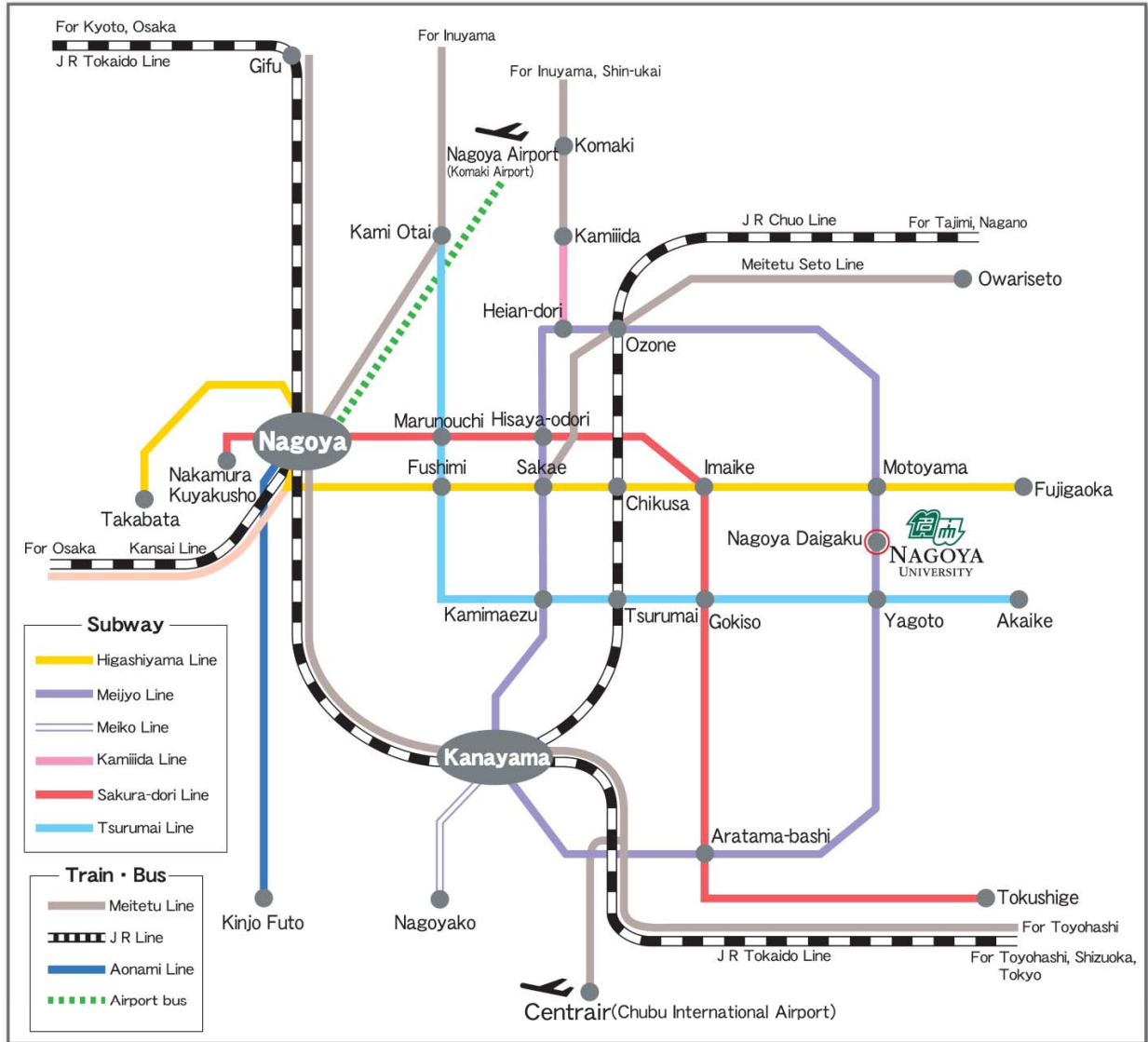


Date: March 27th (THU) to March 30th (SUN), 2014
Venue: Higashiyama Campus, Nagoya University
(Nagoya, Japan)

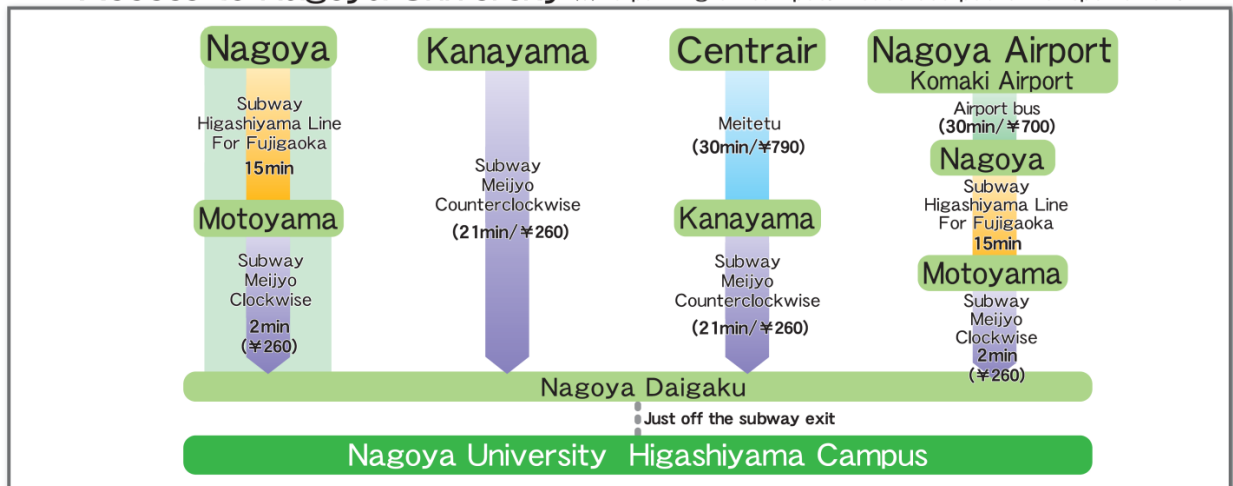
1. Outline of Scientific Program & Social Program
2. General Information
3. Program Overview
4. Detailed Program

Organized by: The Chemical Society of Japan (CSJ)
Co-organized by: Nagoya University

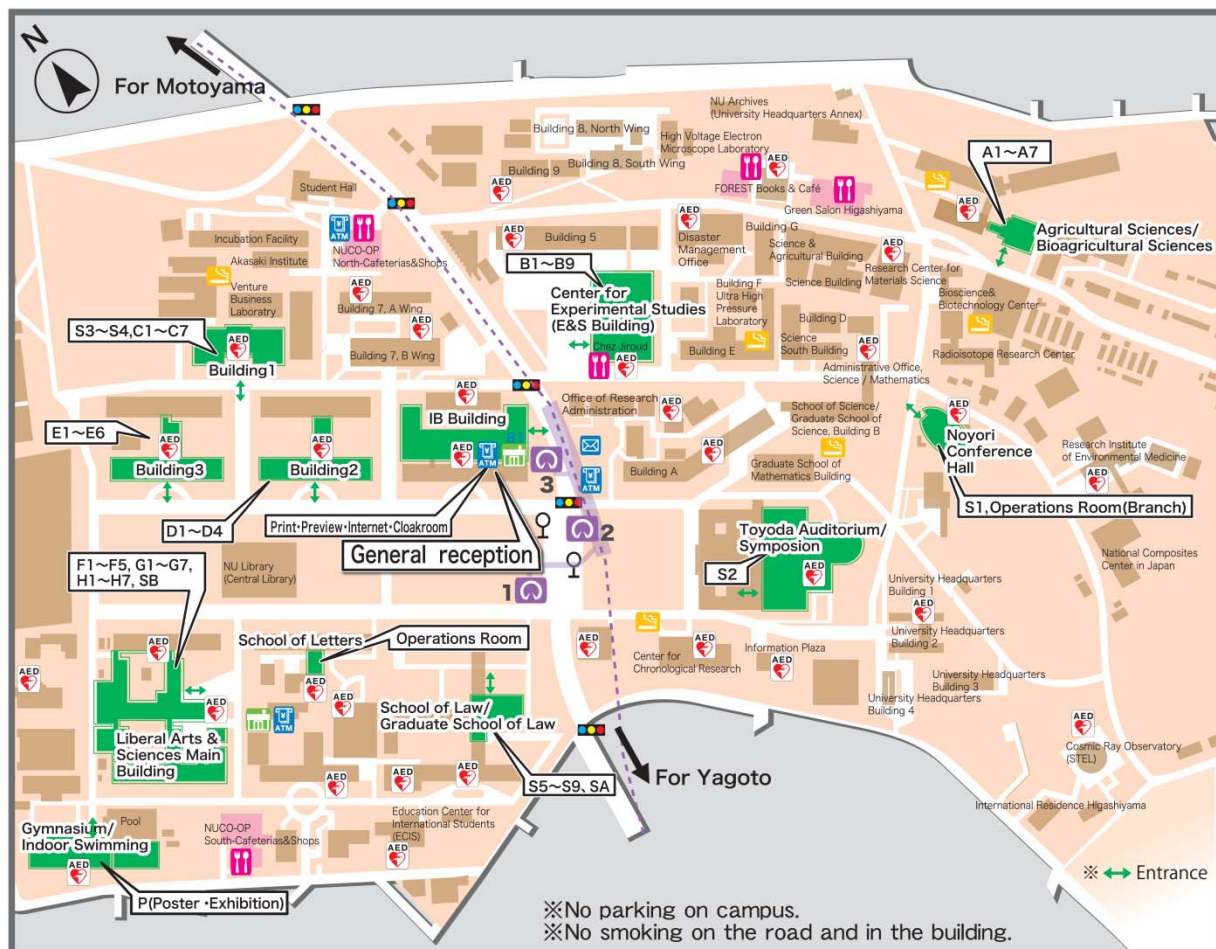
The 94th Annual Meeting of The Chemical Society of Japan Transportation Guide to Nagoya University



Access to Nagoya University ※No parking on campus. Please use public transportation!



The 94th Annual Meeting of The Chemical Society of Japan Nagoya University Higashiyama Campus Map



Restaurants and Food Shops

Location	Building
General reception	IB Building
Cloakroom	IB Building
Print · Preview · Internet	IB Building
A1~A7	Agricultural Sciences, Biological Sciences Lecture Building B
B1~B9	E&S Building
S1 · Operations Room(Branch)	Noyori Conference Hall
S2	Toyoda Auditorium/Symposium
S3~S4	School of Engineering Building 1
S5~S9·SA	School of Law/Graduate School of Law
SB	Liberal Arts&Sciences Main Building

Location	Building
C1~C7	School of Engineering Building 1
D1~D4	School of Engineering Building 2
E1~E6	School of Engineering Building 3
F1~F5	Liberal Arts&Sciences Main Building
G1~G7	
H1~H7	School of Law/Graduate School of Law
P (Poster · Exhibition)	
Operations Room	School of Letters (lecture room 127)

Location	Business Hours
Restaurant Chez Jiroud (E&S Building)(30 seats)	27th 11:30~14:00 29th 11:30~14:00
NU CO-OP North Cafeterias&Shops (380 sets)	27/28th 11:00~20:00 29th 11:00~14:00
Family Mart (Two stores on campus)	07:00~23:00
NU CO-OP South Cafeterias&Shops (450 sets)	11:00~14:00
FOREST Books&Cafe (200 sets)	27/28th 11:00~20:00 29/30th 11:00~14:00
Green Salon Higashiyama (40 sets)	11:00~14:00

Program Overview

Schedule of The 94th Annual Meeting								
Bldg. / Floor / Room	Room	3/27 AM	P	3/27 PM	3/28 AM	P	3/28 PM	
Sch. of Agric. Sci. - Lecture Bldg. & Bldg. B	1	#7 A1		08F) Organic Chemistry -Reaction and Synthesis- Organic Photochemistry				
		#8 A2		08B) Organic Chemistry -Reaction and Synthesis- Aromatic Compounds		PC	08F)	
	2	#5 A3		08C) Organic Chemistry -Reaction and Synthesis- Heterocyclic Compounds				
		#1 A4	07A)	PC	07A) Phys. Org. Chem. -Structures and Properties-		PC	08C)
		#2 A5	07A)	PC	07A) Physical Organic Chemistry -Structures and Properties-			
		#3 A6	07A)	PC	07A) Physical Organic Chemistry -Structures and Properties-			
		#12 A7	07A)	PC	07A) Physical Organic Chemistry -Structures and Properties-			
E&S Bldg.	1	101(ES Hall) B1	08E)	PC	08E) Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry			
		103 B2	08G) Organic Chemistry -Reaction and Synthesis- Organic Electron Transfer Chemistry			PC		
		ES021 B3	08E)	PC	08E) Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry			
		ES022 B4	08E)	PC	08E) Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry			
		ES024 B5	08D) Organic Chemistry -Reaction and Synthesis- Heteroatom Compounds					
		ES025 B6	08A) Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds					
		ES033 B7	08A) Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds					
		ES034 B8	08A) Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds					
		ES035 B9			08H) Org. Chem. High-Throughput Synthesis			
Noyori Conference Hall	1	Lounge	-					
	2	Conference Hall	S1					
Toyoda Auditorium	1	Hall	S2	CSJ Award Presentation			S) President Lecture / Ceremony	
Sch. of Eng. - Bldg. 1	2	121 S3/C1	06) Coordination Chem., Organometallic Chem.	S) Theoretical Approach for Complex Systems	06)	PB	06)	
		131 S4/C2	06) Coordination Chem., Organometallic Chem.	S) New Paradigm of Electronics	06)	PB	06)	
	3	132 C3	12) Polymer			PC	12)	
		133 C4	12) Polymer			PC	12)	
		141 -	Resting Room					
		142 C5	14) Colloid and Interface Chemistry				Asian International Symposium(Colloid and Interface Chemistry)	
		143 C6	14) Colloid and Interface Chemistry					
	144 C7	14) Colloid and Interface Chemistry						
Sch. of Eng. - Bldg. 2	2	221 D1	01) Education and History					
		222 D2		PA	02) Physical Chemistry -Structure-			
	3	231 D3		PA	03) Physical Chemistry -Properties-			
		232 D4		PA	04) Physical Chemistry -Chemical Kinetics and Dynamics-			
Sch. of Eng. - Bldg. 3	2	321 E1	21)		21) Theoretical Chemistry, Informatics Chemistry and Computational Chemistry			
		331 E2		PA	11) Analytical Chemistry		Asian International Symposium(Analytical Chem.)	
	3	332 E3	20)	PB	20) Environmental and Green Chemistry, Geo and Space Chemistry			
		333 E4	15) Material Chemistry			PA	15) Material Chemistry	
		341 E5	16) Functions of Materials			PA	16) Functions of Materials	
		342 E6	17) Applications of Materials			PA	17) Applications of Materials	
Law & Economics Shared Facilities Bldg.	1	#1 S5	S) Chemical Biology	S) Nakanishi Symposium 2014				
		#2 S6	S) Crystallography in Chemistry	S) Organocatalysts	S) Journal Forum		S) TOR Lecture	
	2	Conference Hall S7	S) Artificial photosynthesis			PD	S) Artificial Photosynthesis and Solar Battery	
		#3 S8	S) A New Paradigm for "MONODUKURI"	S) Biomolecular Chemistry-based future medicine	S) Prof. Oliver Reiser & Prof. Robert Blankenship		S) Elemental Strategy	
		#1 S9	S) Optical Manipulation	S) Interaction of Light and Matter			S) Coordination Synergy	
		#2 SA	S) Nanoscale reaction fields in liquids	S) Development of next generation technologies in drug discovery			S) Reaxys Prize Symposium	
Liberal Arts & Sciences Main Bldg.	1	C13 F1	05) Inorganic Chemistry			PB	05)	
		C14 F2	06) Coordination Chemistry, Organometallic Chemistry			PB	06)	
		C15 F3	06) Coordination Chemistry, Organometallic Chemistry			PB	06)	
		S10 F4		T3C) Japanese Bioventures	T1B) Fuel Cells & Hydrogen Energy Technology			
		S11 F5	T2D) Biomimetics as Bridge of Multidiscipline		T1C) Batteries for large scale energy storage			
		C20 G1	10)	PB	10) Biofunctional Chemistry ; Biotechnology			
		C21 G2	10)	PB	10) Biofunctional Chemistry ; Biotechnology			
		C22 G3	10)	PB	10) Biofunctional Chemistry ; Biotechnology			
		C23 G4		PB	99) Chemical Biology			
		C25 G5	10)	PB	10) Biofunctional Chemistry ; Biotechnology			
		S20 G6		T2C) Weight saving Materials	T1E) Organic Synthesis for Utilization of Renewable Carbon Resources			
		S21 SB/G7		T2B) Self-healing Materials	99) Chemical Biology		09) Natural Products Chemistry	
		C30 H1			22) Organic Crystals			
		C32 -	Resting Room					
		C33 H2	19) Energy and Related Chemistry			PC	19) Energy and Related Chemistry	
		C34 H3				PA	13) Catalysts and Catalysis	
		C35 H4				PA	13) Catalysts and Catalysis	
		S30 H5	T2A) Printed Electronics				T1A) New Horizons in Photovoltaic Generation Technologies	
		C42 H6	09) Natural Products Chemistry	PB			09)	
		C43 H7	09) Natural Products Chemistry	PB			09)	
Gymnasium	1	-	P	Poster Session & Exhibition				
IB Bldg.	1	Lobby	-	General Reception				
		IB013	-	Cloakroom				
		IB011	-	Print Corner, Preview Room, Internet Room				
Sch. of Lett. - Main	1	127	-	Operations Room				
Noyori Conference Hall	1	111	-	Operations Room(Branch)				
Bldg. / Floor / Room	Room	3/27 AM	P	3/27 PM	3/28 AM	P	3/28 PM	

- 01)-22): Academic Program, T1)-T3): Advanced Technology Program, S): Special Program, Symposium
 - Poster session schedule, PA : 10:00-11:30, PB : 12:30-14:00, PC : 15:00-16:30, PD : 16:00-17:30

of The Chemical Society of Japan

2014/2/12

3/29 AM	P	3/29 PM	3/30 AM	3/30 PM	Room	Room
08B) Org. Chem. -Reaction and Synthesis- Aromatic Compounds	PC				#7	A1
08C) Org. Chem. -Reaction and Synthesis- Heterocyclic Compounds					#8	A2
07A) Physical Organic Chemistry -Structures and Properties-					#5	A3
Asian International Symposium(Photo Chemistry)			07A) Physical Organic Chemistry -Structures and Properties-		#1	A4
07A) Physical Organic Chemistry -Structures and Properties-					#2	A5
07A) Physical Organic Chemistry -Structures and Properties-					#3	A6
07A) Physical Organic Chemistry -Structures and Properties-					#12	A7
08E) Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry					101(ES Hall)	B1
					103	B2
08E) Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry					ES021	B3
08E) Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry					ES022	B4
	PC	08D) Organic Chemistry -Reaction and Synthesis- Heterocyclic Compounds			ES024	B5
08A) Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds	PC	08A)			ES025	B6
08A) Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds	PC	08A)			ES033	B7
08A) Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds	PC	08A)			ES034	B8
08H) Org. Chem. High-Throughput Synthesis	PC				ES035	B9
Experiment classroom					Lounge	-
				CSJ Public Lecture	Conference Hall	S1
CSJ Award Presentation					Hall	S2
06) Coordination Chemistry, Organometallic Chemistry					121	S3/C1
18) Resources Utilization Chemistry	PB	18)			131	S4/C2
12) Polymer					132	C3
12) Polymer					133	C4
Resting Room					141	-
14) Colloid and Interface Chemistry	PB	14)			142	C5
14) Colloid and Interface Chemistry	PB	14)			143	C6
14) Colloid and Interface Chemistry	PB	14)			144	C7
01) Education and History	PA				221	D1
02) Physical Chemistry -Structure-					222	D2
03) Physical Chemistry -Properties-					231	D3
04) Physical Chemistry -Chemical Kinetics and Dynamics-					232	D4
	PA	Asian International Symposium(Theoretical , Chemoinformatics,Computational)			321	E1
11) Analytical Chemistry					331	E2
					332	E3
15) Material Chemistry		Asian International Symposium(Mat. Chem.)	15) Material Chemistry		333	E4
16) Functions of Materials					341	E5
					342	E6
S) Japan-US Main Group Chemistry Sympos	S)	Expectations for Chemical Society of Japan		S) Biosynthetic Machinery of Bioactive Natural Products	#1	S5
	S)	Chemical Heritage Public Lecture	S) Photonic Molecular Science	S) Luminescence Chemistry	#2	S6
					Conference Hall	S7
		S) 21st Chemical Education Forum	S) Future of π -conjugated molecule	S) Chemistry of Nanosheets	#3	S8
		S) Molecular Technology	S) Synchrotron SAXS	S) Element-block	#1	S9
		S) Symposium for Gender Equality	S) Brain-like electronic devices	S) Molecular Devices	#2	SA
05) Inorganic Chemistry		Asian International Symposium(Inorg. Chem.)	06)		C13	F1
06) Coordination Chemistry, Organometallic Chemistry		Asian International Symposium(Coordination Chem., Organometallic Chem.)	06)		C14	F2
06) Coordination Chemistry, Organometallic Chemistry					C15	F3
06) Coordination Chemistry, Organometallic Chemistry	T3B)	Brain Sciences	06)		S10	F4
06) Coordination Chemistry, Organometallic Chemistry	T3A)	New Biotechnologies	06)		S11	F5
10) Biofunctional Chemistry ; Biotechnology					C20	G1
10) Biofunctional Chemistry ; Biotechnology					C21	G2
10) Biofunctional Chemistry ; Biotechnology					C22	G3
99) Chemical Biology					C23	G4
10) Biofunctional Chemistry ; Biotechnology					C25	G5
T1D) Highly efficient use of energy and chemical technology for sustainable environmen	06)				S20	G6
	S)	The Seminar for Doctoral Students			S21	SB/G7
	PA	Asian International Symposium(Organic Crystals)			C30	H1
Resting Room					C32	-
19) Energy and Related Chemistry					C33	H2
13) Catalysts and Catalysis					C34	H3
13) Catalysts and Catalysis					C35	H4
T1A) New Horizons in Photovoltaic Generation Technologies					S30	H5
09) Natural Products Chemistry					C42	H6
09) Natural Products Chemistry					C43	H7
Poster Session & Exhibition					-	P
General Reception					Lobby	-
Cloakroom					IB013	-
Print Corner, Preview Room, Internet Room					IB011	-
Operations Room					127	-
Operations Room(Branch)					111	-
3/29 AM	P	3/29 PM	3/30 AM	3/30 PM	Room	Room

Academic Program (AP) (oral and poster)

29 Categories, Alphabetical order in category.

Analytical Chemistry
Applications of Materials
Biofunctional Chemistry ; Biotechnology
Catalysts and Catalysis
Chemical Biology
Colloid and Interface Chemistry
Coordination Chemistry, Organometallic Chemistry
Energy and Related Chemistry
Environmental and Green Chemistry, Geo and Space Chemistry
Functions of Materials
Inorganic Chemistry
Material Chemistry
Natural Products Chemistry
Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds
Organic Chemistry -Reaction and Synthesis- Aromatic Compounds
Organic Chemistry -Reaction and Synthesis- Heteroatom Compounds
Organic Chemistry -Reaction and Synthesis- Heterocyclic Compounds
Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis
Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry
Organic Chemistry -Reaction and Synthesis- Organic Electron Transfer Chemistry
Organic Chemistry -Reaction and Synthesis- Organic Photochemistry
Organic Crystals
Physical Chemistry -Chemical Kinetics and Dynamics-
Physical Chemistry -Properties-
Physical Chemistry -Structure-
Physical Organic Chemistry -Reaction Mechanism-
Physical Organic Chemistry -Structures and Properties-
Polymer
Theoretical Chemistry, Informatics Chemistry and Computational Chemistry

[Analytical Chemistry]

Room E2 (School of Engineering - Bldg. 3, 331)

March 29th (SAT)

09:30–09:40 **3E2-04** Colorimetric SNP Genotyping Based on Colloidal Stability of Gold Nanoparticles Modified with DNA Duplex Having a Dangling End (RIKEN; Grad. Sch. Frontier Sci., The Univ. of Tokyo) SHIKAGAWA, Hiroto; AKIYAMA, Yoshitsugu; KANAYAMA, Naoki; TAKARADA, Tohru; MAEDA, Mizuo
15:30–15:40 **3E2-40** An Optical Method to Control the Intracellular Production of Phosphatidylinositol (3,4,5)-trisphosphate with Blue Light (Grad. Sch. Sci., The Univ. of Tokyo) YANG, Lingzhi; OZAWA, Takeaki

March 30th (SUN)

13:50–14:10 **4E2-30** Automated simultaneous injection effective mixing analysis system for catalytic determination of vanadium and iron in waters (Aichi Inst. of Tech.) AYALA, Alejandro; TESHIMA, Norio; SAKAI, Tadao; MOTOMIZU, Shoji

Poster Room (Gymnasium)

March 27th (THU)

10:00–11:30 **1PA-118** Chemiluminescence method for chemical oxygen demand (Grad. Sch. Eng., Osaka Pref. Univ.) DO THI KIM, Hue; TAKENAKA, Norimichi

[Applications of Materials]

Room E6 (School of Engineering - Bldg. 3, 342)

March 27th (THU)

13:10–13:30 **1E6-26** Photocatalytic Activity of Fluorinated Acrylate-Acrylic Acid Cooligomers/Silica/Titanium Oxide Nanocomposites-Encapsulated Aromatic Compounds before and after Calcination (Hirotsaki University Graduate school of science and technology; LIXIL) GUO, Sujuan; OKADA, Yoshitaka; KAKEHI, Hiroshi; KATO, Yoshihiro; MIURA, Masashi; ISU, Norifumi; SAWADA, Hideo
14:10–14:30 **1E6-32** Effect of Alkyl Group in (Dilakylamino)perfluorophenazines on Melting Point and Solid-State Fluorescence (Fac. Eng., Gifu Univ.) BIRADAR, Siddanagouda; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MATSUI, Masaki
16:30–16:50 **1E6-46** Novel Environmentally Friendly Inorganic Blue Pigments with Garnet-type Structure (Grad. Sch. Eng., Osaka Univ.) WEN, Dusu; HONDA, Taihei; MASUI, Toshiyuki; IMANAKA, Nobuhito

March 28th (FRI)

12:50–13:10 **2E6-24** New electrochromic devices with metallo-supramolecular polymers (NIMS Electronic Functional Materials Group; JST CREST) ZHANG, Jian; HIGUCHI, Masayoshi
16:00–16:20 **2E6-43** Facile Synthesis of Pd-Pt Core-Shell Nanoparticles on Polybenzimidazole-Wrapped Graphene for Fuel Cell Application and Their Catalytic Activity. (Grad. Sch. Eng., Kyushu Univ.) KIM, Chaerin; FUJIGAYA,

Tsuyohiko; NAKASHIMA, Naotoshi

Poster Room (Gymnasium)

March 28th (FRI) 10:00–11:30

2PA-121 Photocatalytic Activity of Fluorinated Aliphatic Alcohols/Silica/Titanium Oxide Nanocomposites-encapsulated Low Molecular Weight Aromatic Compounds before and after Calcination (Hirosaki University Graduate school of science and technology; UNIMATEC) GUO, Sujuan; SATO, Katsuyuki; SAWADA, Hideo

2PA-144 Properties of New Adhesive with Polyoxazoline Telechelics (Hachinohe National College of Technology Department of Chemical and Biological Engineering) SATOH, Kumiko; SASAKI, Natsumi

[Biofunctional Chemistry ; Biotechnology]

Room G1 (Liberal Arts & Sciences Main Building, C20)

March 28th (FRI)

10:50–11:00 **2G1-12** Effect of molecular environments on the behaviors of biomolecules(48): Quantitative analyses of the ligand binding to guanine quadruplex by pressure changes (FIBER, Konan Univ.) BHOWMIK, Sudipta; TAKAHASHI, Shuntaro; ENDOH, Tamaki; SUGIMOTO, Naoki

13:50–14:00 **2G1-30** Effect of molecular environments on the behaviors of biomolecules (51): The stability of DNA duplex and G-quadruplex at the biomembrane surface (Konan Univ. FIBER) PRAMANIK, Smritimoy; TATEISHI-KARIMATA, Hisae; SUGIMOTO, Naoki

March 29th (SAT)

13:40–13:50 **3G1-29** Direct observation dual-regulated nanomechanical movements in a single DNA nanostructure (Grad. Sch. Sci., Kyoto Univ.) YANG, Yangyang; ENDO, Masayuki; SUZUKI, Yuki; HIDAKA, Kumi; SUGIYAMA, Hiroshi

13:50–14:10 **3G1-30** Dynamic behavior of photoresponsive DNA origami nanostructures directly visualized on a lipid membrane surface (Grad. Sch. Sci., Kyoto Univ.) SUZUKI, Yuki; ENDO, Masayuki; YANG, Yangyang; SUGIYAMA, Hiroshi

14:20–14:30 **3G1-33** Effect of molecular environments on the behaviors of biomolecules (50): Quantitative analyses of aptamer-ligand binding kinetics derived from FMN riboswitches (FIBER, Konan Univ.; FIRST, Konan Univ.) AMBADAS, Rode; ENDOH, Tamaki; SUGIMOTO, Naoki

14:50–15:10 **3G1-36** Construction of organized assembly of enzymes on DNA origami (Kyoto Univ.) NGO, Anh tien; NAKATA, Eiji; SAIMURA, Masayuki; KODAKI, Tsutomu; MORII, Takashi

15:10–15:20 **3G1-38** Applications of sequence-specific DNA binding adaptors for assembling proteins on DNA origami (Grad. Sch. Energy Sci., Kyoto Univ.) DINH, Huyen; NAKATA, Eiji; NGO, Anh tien; ASHIDA, Hiroki; YOKOTA, Akiho; MORII, Takashi

15:30–15:40 **3G1-40** Design and synthesis of novel small-molecule ligand for targeting nucleotide bulges (ISIR, Osaka Univ.) LI, Jinxing; OTABE, Takahiro; NAKATANI, Kazuhiko

15:40–15:50 **3G1-41** Synthesis and Biological Evaluation of Targeted Transcriptional Activator (Grad. Sch. Sci., Kyoto Univ.) SAHA, Abhijit; PANDIAN, Ganesh; TANIGUCHI, Junichi; BANDO, Toshikazu; SUGIYAMA, Hiroshi

Room G2 (Liberal Arts & Sciences Main Building, C21)

March 27th (THU)

9:00–09:20 **1G2-01** Fluorescence Imaging of Telomeric Repeat-Containing RNA in Living Cells (Grad. Sch. Sci., The Univ. of Tokyo) YAMADA, Toshimichi; YOSHIMURA, Hideaki; HATTORI, Mitsuru; OZAWA, Takeaki

10:40–11:00 **1G2-11** Prospects in biofuel production: the introduction of green-light-regulated gene expression system in marine cyanobacteria (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; JST CREST) BADARY, Amr; ABE, Koichi; KOJIMA, Katsuhiko; FERRI, Stefano; SODE, Koji

11:00–11:10 **1G2-13** Elucidation of molecular mechanism underlying synchronization of circadian clock by UV light irradiation (Grad. Sch. Sci., The Univ. of Tokyo) KAWAMURA, Genki; HATTORI, Mitsuru; TAMARU, Teruya; TAKEAKI, Ozawa

14:30–14:50 **1G2-34** Scaffold engineering of small RNAs to improve gene regulation ability in Escherichia coli (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; JST CREST) SAKAI, Yuta; ABE, Koichi; NAKASHIMA, Saki; SODE, Koji; IKEBUKURO, Kazunori

16:00–16:20 **1G2-43** Bio-inspired microfluidic platform to control cell functions (iCeMS, Kyoto Univ.) KAMEI, Ken-ichiro; MASHIMO, Yasumasa; KOYAMA, Yoshie; YOSHIOKA, Momoko; NAKAJIMA, Minako; FOCKENBERG, Christopher; CHEN, Yong

16:20–16:30 **1G2-45** High-throughput screening platform of engineered cellular microenvironments for human pluripotent stem cells (iCeMS, Kyoto Univ.) MASHIMO, Yasumasa; KAMEI, Ken-ichiro; FOCKENBERG, Chris; LIU, Li; KOYAMA, Yoshie; CHEN, Yong

March 28th (FRI)

11:00–11:10 **2G2-13** Synthesis and Characterization of a Water-Soluble and Saddle-Distorted Porphyrin (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OCHIAI, Hidemi; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko

11:20–11:30 **2G2-15** Conjugation of metallo-supramolecular oligomers and calf-thymus DNA (NIMS Electronic functional materials group) UTPAL, Rana; HIGUCHI, Masayoshi

11:30–11:50 **2G2-16** Improved sequence specific DNA alkylation by Pyrrole-Imidazole Polyamides to modulate gene expression (Grad. Sch. Sci., Kyoto Univ.) TAYLOR, Rhys; KAWAMOTO, Yusuke; ASAMITSU, Sefan; YAMAMOTO, Makoto; TAKENAKA, Tomohiro; HASHIYA, Kaori; NAGASE, Hiroki; BANDO, Toshikazu; SUGIYAMA, Hiroshi

16:10–16:20 **2G2-44** Oxidative damage of amino acid residue of protein photosensitized by P(V)porphyrin through electron transfer and singlet oxygen generation (Grad. Sch. Eng., Shizuoka Univ.) OUYANG, Dongyan;

HIRAKAWA, Kazutaka

March 29th (SAT)

15:50–16:10 **3G2-42** Co-axial double layered gel fibers of biopolymers fabricated by three-dimensional sheath flow microfluidic device as 3D cell culture scaffolds to form tissue engineered constructs (Grad. Sch. Advanced Sci. Eng., Waseda Univ.; Grad. Sch. Fundamental Sci. Eng., Waseda Univ.; Inst. Nanosci. & Nanotech., Waseda Univ.) TAKEDA, Naoya; NAKAMURA, Yutaro; OKU, Hitomi; SEKINE, Rui; ITO, Junichi; YOON, Donghyun; ARISAKA, Yoshinori; SEKIGUCHI, Tetsushi; SHOJI, Shuichi

16:10–16:30 **3G2-44** One-Step Assembly of Metal-Polyphenol Complexes for Biocompatible Film Engineering (IIS, The Univ. of Tokyo) EJIMA, Hirotaka; CARUSO, Frank

Room G3 (Liberal Arts & Sciences Main Building, C22)

March 27th (THU)

14:30–14:50 **1G3-34** Phase separation of biomimetic membranes under oxidative stress (Sch. Mat. Sci., JAIST) YODA, Tsuyoshi; INUI, Wataru; PHAN, Huong thi than; SHIMOKAWA, Naofumi; MUN'DELANJI, C. vestergaard; HAMADA, Tsutomu; TAKAGI, Masahiro

March 28th (FRI)

09:00–09:20 **2G3-01** Functional and photoreaction study of light-driven sodium ion pump (Nagoya Inst. of Tech. Grad. Sch. Eng.) KATO, Yoshitaka; INOUE, Keiichi; ONO, Hikaru; YOSHIZUMI, Rei; KANDORI, Hideki

March 29th (SAT)

16:40–17:00 **3G3-47** Elucidation of the conformational dynamics of oligosaccharides by paramagnetism-assisted NMR approach (SOKENDAI Sch. Phys. Sci.; IMS OIIB; Grad. Sch. Pharm. Sci., Nagoya City Univ.; Grad. Sch. Sci., Nagoya Univ.; Ochanomizu Univ. Glycosci. Inst.) ZHANG, Ying; YAMAGUCHI, Takumi; YAMAMOTO, Sayoko; SAKAE, Yoshitake; OKAMOTO, Yuko; KATO, Koichi

Room G5 (Liberal Arts & Sciences Main Building, C25)

March 27th (THU)

12:00–12:20 **1G5-19** Asparagine-Selective Cleavage of Peptide Bonds in Neutral Aqueous Solutions (Grad. Sch. Pharm., The Univ. of Tokyo; JST-ERATO) TANABE, Kana; TANIGUCHI, Atsuhiko; MATSUMOTO, Takuya; OISAKI, Kounosuke; SOHMA, Youhei; KANAI, Motomu

17:50–18:10 **1G5-54** Control of Silver Nanoparticle Formation by Oligomerization and Orientation of Biomineralization Peptide (Grad. Sch. Sci., Hokkaido Univ.) SAKAGUCHI, Tatsuya; JANAIRO, Isagani; WADA, Junya; SAKAGUCHI, Kazuyasu

March 28th (FRI)

10:30–10:50 **2G5-10** Catalytic Promiscuity Arising From Metallation of a Putative Facial Triad Motif Within a Lactonase (Uni. Basel Dept. Chem.) FUJIEDA, Nobutaka; SCHÄTTI, Jonas; STTUTFELD, Edward; SHARPE, Timothy; MAIER, Timm; WARD, Thomas

11:30–11:40 **2G5-16** Synthesis of Nitrophorin 4 using KAHA ligation (WPI-ITbM, Nagoya Univ.) THUAUD, Frédéric; HE, Chunmao; KULKARNI, Sameer; OISHI, Shunsuke; BODE, Jeffrey

15:20–15:40 **2G5-39** EndoS: an ENGase with an alternative glycan specificity and the ability to remodel the Fc N-glycan of intact IgG (University of Oxford Department of Chemistry) YAMAMOTO, Keisuke; BARUAH, Kavitha; GOODFELLOW, Jonathan; BONOMELLI, Camille; KRISHNA, Benjamin; HARVEY, David; CRISPIN, Max; SCANLAN, Christopher; DAVIS, Benjamin

16:20–16:40 **2G5-45** Analyzing the Bacterial Adhesion of the highly adhesive bacterium *Acinetobacter* sp. Tol 5 using Atomic Force Microscopy (Grad. Sch. Eng., Nagoya Univ.) MIYACHI, Yusuke; HORI, Katsutoshi

16:40–17:00 **2G5-47** Structural analysis of *Acinetobacter* species-conserved domains of a highly adhesive bacterionanofiber protein, AtaA (Grad. Sch. Eng., Nagoya Univ.) KOIWAI, Kotaro; HARTMANN, Marcus; NUR, Izzah; MIKI, Akihiro; YOSHIMOTO, Shogo; LINKE, Dirk; LUPAS, Andrei; HORI, Katsutoshi

March 30th (SUN)

10:10–10:30 **4G5-08** Controlling axon elongation with light stimulation using a photoreceptor protein (Grad. Sch. Sci., The Univ. of Tokyo) ENDO, Mizuki; HATTORI, Mitsuru; OZAWA, Takeaki

10:30–10:50 **4G5-10** Functional conversion of archaerhodopsin-3 from light-driven proton pump to light-gated channel (Grad Sch. Eng., Nagoya Inst. of Tech.) INOUE, Keiichi; SHIMONO, Kazumi; SUZUKI, Yuto; YAGASAKI, Jin; MIYAUCHI, Seiji; HAYASHI, Shigehiko; KANDORI, Hideki; SUDO, Yuki

11:20–11:40 **4G5-15** Identification of exolytic alginate lyase genes from brown algae degrading marine bacteria (Fac. Sci. Eng., Waseda Univ.) MORI, Tetsushi; TAKAHASHI, Mami; SHIBATA, Toshiyuki; KURODA, Kouichi; CHOW, Seinen; UEDA, Mitsuyoshi; TAKEYAMA, Haruko

Poster Room (Gymnasium)

March 27th (THU) 12:30–14:00

1PB-034 Amphiphilic derivatives of oligo(ethylene glycol)s - development and characterisation (IMRAM, Tohoku Univ.) WAWRO, Adam; MURAOKA, Takahiro; UI, Mihoko; KINBARA, Kazushi

1PB-070 To connect cell by DNA forming G-quadruplex (Fac. Med., Univ. of Miyazaki) LIU, Hongshan; ISHIZUKA, Takumi; XU, Yan

1PB-071 ¹⁹F-labeled telomere RNA G-quadruplex structure (Fac. Med., Univ. of Miyazaki) BAO, Hongliang; ISHIZUKA, Takumi; XU, Yan

[Catalysts and Catalysis]

Room H3 (Liberal Arts & Sciences Main Building, C34)

March 28th (FRI)

14:40–15:00 **2H3-35** Morphology Effect Overtakes the Size Effect in Catalytic Activity of Quasi-Homogeneous Nanogold Toward the Aerobic Oxidation (SOKENDAI Functional molecule Science) HAESUWANNAKIJ, Setsiri; KIMURA, Tetsunari; FURUTANI, Yuji; OKUMURA, Kazu; SAKURAI, Hidehiro

March 29th (SAT)

- 13:10–13:30 **3H3-26** Mechanism of Water Oxidation by Fe(TPA) Analogs Using Sodium Periodate (I₂CNER, Kyushu Univ.) PARENT, Alexander; NAKAZONO, Takashi; SAKAI, Ken
- 14:00–14:10 **3H3-31** Fabrication of Pd-Ni-P Metallic Glass Nanoparticles and Their Application to Methanol Electro-oxidation as Highly Durable Catalysts (WPI-AIMR, Tohoku Univ.; Grad. Sch. Sci., Tohoku Univ.) ZHAO, Ming; ABE, Katsuhiro; YAMAURA, Shin-ichi; YAMAMOTO, Yoshinori; ASAO, Naoki
- 15:50–16:10 **3H3-42** One-pot selective conversion of furfural into 1,5-pentanediol over Pd-added Ir-ReO_x/SiO₂ bifunctional catalyst (Grad. Sch. Eng., Tohoku Univ.) LIU, Sibao; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi
- 17:40–17:50 **3H3-53** Sodium hydroxide-assisted growth of uniform Pd nanoparticles on MSC-30 for dehydrogenation of formic acid (UBIQEN, AIST) CHEN, Yao; ZHU, Qilong; XU, Qiang

March 30th (SUN)

- 13:00–13:20 **4H3-25** Aerobic Oxidation of Cyclohexanones to Cyclic Enones, Phenols, and Phenyl Ethers over Supported Palladium Catalysts (Grad. Sch. Sci., Kyushu Univ.) ZHANG, Zhenzhong; HASHIGUCHI, Taishin; ISHIDA, Tamao; HAMASAKI, Akiyuki; TOKUNAGA, Makoto
- 13:30–13:40 **4H3-28** Development of highly active Pd catalysts for the Suzuki-Miyaura coupling reaction of chlorobenzene and aryl halides (Sch. Mat. Sci., JAIST) JIA, Jixiang; CHOUDHARY, Hemant; NISHIMURA, Shun; EBITANI, Kohki
- 14:10–14:30 **4H3-32** Dual Nature of Palladium in the Presence and Absence of Gold in Catalytic Dechlorination of Aryl Chlorides (IMS) KARANJIT, Sangita; JINASAN, Atchaleeya; SOMSOOK, Ekasith; DHITAL, Raghu Nath; SAKURAI, Hidehiro
- 14:30–14:50 **4H3-34** A Peculiar Activity of Bimetallic Gold/Palladium Alloy Nanoclusters in Carbon-Chlorine Bond Activation: An Application to Ullmann Coupling (IMS) DHITAL, Raghu Nath; KAMONSATIKUL, Choavarit; SOMSOOK, Ekasith; BOBUATONG, Karan; EHARA, Masahiro; KARANJIT, Sangita; SAKURAI, Hidehiro

Room H4 (Liberal Arts & Sciences Main Building, C35)**March 28th (FRI)**

- 13:10–13:30 **2H4-26** Photocatalytic overall water splitting on a complex perovskite oxynitride under visible light (< 600nm) irradiation (GREEN, NIMS) PAN, Chengsi; TAKATA, Tsuyoshi; NAKABAYASHI, Mamiko; MATSUMOTO, Takao; IKUHARA, Yuichi; DOMEN, Kazunari
- 14:10–14:30 **2H4-32** First-principles study of the visible-light response of GaN:ZnO solid solution with respect to the local atomic configuration (Grad. Sch. Eng., The Univ. of Tokyo) KAWAI, Hiroki; GIORGI, Giacomo; PALUMMO, Maurizia; YAMASHITA, Koichi
- 14:50–15:00 **2H4-36** Photocatalytic H₂ evolution activity of La and Rh codoped SrTiO₃ powder prepared by the two-step solid-state reaction (Grad. Sch. Eng., The Univ. of Tokyo) WANG, Qian; HISATOMI, Takasi; DOMEN, Kazunari
- 15:10–15:20 **2H4-38** Photoelectrochemical hydrogen evolution using Pt and CdS modified (Ag,Cu)GaSe₂ photocathodes prepared by two-step method (Grad. Sch. Eng., The Univ. of Tokyo) ZHANG, Li; MINEGISHI, Tsutomu; KUBOTA, Jun; DOMEN, Kazunari

March 29th (SAT)

- 12:50–13:10 **3H4-24** Photocatalysis of Mesoporous SiO₂-TiO₂-Au Nanoparticle Composite under UV and Visible Light (Toyohashi Univ. of Tech.) OKUNO, Teruhisa; KAWAMURA, Go; MUTO, Hiroyuki; MATSUDA, Atsunori
- 15:30–15:50 **3H4-40** Gold supported on alumina as a catalyst for the surface plasmon-enhanced selective reduction of nitrobenzene (Sch. Mat. Sci., JAIST) CHAISEEDA, Kittichai; NISHIMURA, Shun; EBITANI, Kohki
- 16:50–17:10 **3H4-48** Photocatalytic selective hydrogenation of multi-bond over co-catalyst loaded titanium(IV) oxide (Fac. Sci. Eng., Kinki Univ.) IMAMURA, Kazuya; ITO, Tomohiko; TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

March 30th (SUN)

- 10:30–10:40 **4H4-10** Photocatalytic conversion of CO₂ in water over Ga₂O₃ (Grad. Sch. Eng., Kyoto Univ.) WANG, Zheng; TERAMURA, Kentaro; HOSOKAWA, Saburo; TANAKA, Tsunehiro
- 13:30–13:40 **4H4-28** Investigation of Gallium (III) xanthate as latent curing agent for epoxy resin (Grad. Sch. Life Sci. Sys. Eng., KIT) VAGVALA, Tarun chand; PANDEY, Shyam sudhir; OGOMI, Yuhei; HAYASE, Shuzi
- 13:40–13:50 **4H4-29** Catalytic performance of partial oxidation of methane over supported Ni catalysts prepared from Ni/Ca-Al-layered double hydroxide (Grad. Sch. Eng., Kyoto Univ.) MOKHTAR, Zulfakar; SHISHIDO, Tetsuya; HOSOKAWA, Saburo; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 14:40–15:00 **4H4-35** Direct phenol synthesis from benzene with O₂ regulated by NH₃ on zeolite β-supported Ir and Ni catalysts (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) WANG, Linsheng; YAMAMOTO, Sadaaki; HAYASHIZAKI, Kenichiro; NAGAMATSU, Shin-ichi; SASAKI, Tekehiko; IWASAWA, Yasuhiro

Poster Room (Gymnasium)**March 28th (FRI) 10:00–11:30**

- 2PA-005** Preparation of catalysts for methanol synthesis by using graphene (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ZHANG, Xiaorui; AKASU, Yuta; KAMAKURA, Sei; KONDO, Takahiro; SUZUKI, Yoshikazu; NAKAMURA, Junji
- 2PA-009** Efficiently complete conversion of hydrazine borane to hydrogen catalyzed by surfactant-free NiPt nanoparticles at ambient temperature (UBIQEN, AIST) ZHU, Qilong; XU, Qiang
- 2PA-016** Characterization of doped La₅Ti₂CuS₃O₇ for photoelectrochemical hydrogen evolution (Grad. Sch. Eng., The Univ. of Tokyo) LIU, Jingyuan; HISATOMI, Takashi; MA, Guijun; MINEGISHI, Tsutomu; MORIYA, Yosuke; DOMEN, Kazunari

[Chemical Biology]

Room G4 (*Liberal Arts & Sciences Main Building, C23*)

March 27th (THU)

16:50–17:10 **1G4-48** Novel reversible fluorescent probes for glutathione and their application for intracellular live-imaging (Grad. Sch. Med., The Univ. of Tokyo) UMEZAWA, Keitaro; YOSHIDA, Masafumi; KAMIYA, Mako; URANO, Yasuteru

March 28th (FRI)

11:30–11:50 **2G4-16** Analytical Method for Visualizing Protein Clusters Responsible for Cell Death (Grad. Sch. Sci., The Univ. of Tokyo) NASU, Yusuke; BENKE, Alexander; ARAKAWA, Satoko; MANLEY, Suliana; SHIMIZU, Shigeomi; OZAWA, Takeaki

11:50–12:10 **2G4-18** Bioluminescence analysis of relationship between the class of GPCR and temporal pattern of GPCR- β -arrestin interaction (Grad. Sch. Sci., The Univ. of Tokyo) HATTORI, Mitsuru; TANAKA, Miho; TAKAKURA, Hideo; OZAWA, Takeaki

13:20–13:40 **2G4-27** Jasmonate glucoside activates K^+ channel in *Samanea saman* through ROS production (Grad. Sch. Sci., Tohoku Univ.) YANG, Gangqiang; OIKAWA, Takaya; ISHIMARU, Yasuhiro; GENJI, Takahisa; SHIGENAGA, Miyuki; TANAKA, Keisuke; HAMAMOTO, Shin; TAMURA, Satoru; UOZUMI, Nobuyuki; UEDA, Minoru

14:00–14:20 **2G4-31** Analysis of the Interaction between Aplyronine A and Its Target Proteins (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; Grad. Sch. Sci. Technol., Shizuoka Univ.) HIRAYAMA, Yuichiro; KITA, Masaki; SUZUKI, Tomohiro; KAWAGISHI, Hirokazu; KIGOSHI, Hideo

March 29th (SAT)

16:30–16:50 **3G4-46** Label-free Visualization of Rat Cornea Inner Structure with Multimodal Nonlinear Spectral Microscope (Grad. Sch. Sci., The Univ. of Tokyo) SEGAWA, Hiroki; KAJI, Yuichi; KANO, Hideaki; OZAWA, Takeaki

17:10–17:30 **3G4-50** Photo-polymerizable Molecular Glue for Site-selective Adhesion in Cell Engineering (Grad. Sch. Eng., The Univ. of Tokyo) HATANNO, Junichi; OKURO, Kou; AIDA, Takuzo

March 30th (SUN)

10:10–10:30 **4G4-08** Localized cell stimulation by nitric oxide using a photoactive porous coordination polymer platform (iCeMS, Kyoto Univ.) DIRING, Stéphane; KITAGAWA, Susumu; FURUKAWA, Shuhei

10:30–10:50 **4G4-10** Intracellular nitric oxide delivery using a photoactive porous coordination polymer (Grad. Sch. Eng., Kyoto Univ.) KIM, Chiwon; DIRING, Stéphane; KITAGAWA, Susumu; FURUKAWA, Shuhei

11:10–11:20 **4G4-14** A high-throughput screening method for SUMOylated proteins in living cells and analysis of SUMOylation functions (Grad. Sch. Sci., The Univ. of Tokyo) KOMIYA, Maki; HIRUMA, Daisuke; HATTORI, Mitsuru; OZAWA, Takeaki

15:20–15:40 **4G4-39** Synthesis of Fluorescent Metal nanoclusters and Application to cellular imaging (Kure National College of Technology) TANAKA, Shin-ichi; JIN, Takashi; INOUE, Yasushi

Room G7 (*Liberal Arts & Sciences Main Building S21*)

March 28th (FRI)

11:00–11:10 **2G7-13** Catch and Release of Alkyne-Tagged Molecules in Aqueous Media Using Cobalt Beads (ERATO, JST; RIKEN) MIYAZAKI, Ayako; ASANUMA, Miwako; DODO, Kosuke; EGAMI, Hiromichi; SODEOKA, Mikiko

[Colloid and Interface Chemistry]

Room C5 (*School of Engineering - Bldg. 1, 142*)

March 27th (THU)

15:30–15:50 **1C5-40** Shape Dependent Crystal Structural Control of Semiconductor Nanocages (ICR, Kyoto Univ.) WU, Hsin-lun; SATO, Ryota; TERANISHI, Toshiharu

March 28th (FRI)

9:30–9:40 **2C5-04** Synthesis of selenolate protected bimetallic clusters (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) SHARMA, Sachil; KURASHIGE, Wataru; EGURO, Makoto; KANEHIRA, Keita; MATUZAKI, Miku; NEGISHI, Yuichi

9:50–10:10 **2C5-06** Preparation of Phase Separated Polymer Particles as Pollen Biomimetics (CIST Bio- and Material Photonics) KARTHAUS, Olaf; POLZIN, Phillip

10:10–10:30 **2C5-08** Double-Stranded DNA-Functionalized Gold Nanoparticle Oligomers with a Beads-on-a-String-Like Structure: Interparticle Distance Changes Induced by Terminal Base-Pairing (RIKEN) AKIYAMA, Yoshitsugu; SHIKAGAWA, Hiroto; KANAYAMA, Naoki; FUJITA, Masahiro; TAKARADA, Tohru; MAEDA, Mizuo

10:30–10:50 **2C5-10** Plasmonic Properties of Non-stoichiometric Copper Sulfide Nanodisks (Grad. Sch. Sci., Kyoto Univ.) CHEN, Lihui; YOSHINAGA, Taizo; SAKAMOTO, Masanori; TERANISHI, Toshiharu

11:00–11:20 **2C5-13** Significantly Enhanced Hydrogen-storage Capacity and Speed in Pd Nanocrystals Covered with a Metal-organic Framework (Grad. Sch. Sci., Kyoto Univ.) LI, Guangqin; KOBAYASHI, Hirokazu; KITAGAWA, Hiroshi; KUBOTA, Yoshiki; YAMAMOTO, Tomokazu; MATSUMURA, Syo

11:20–11:40 **2C5-15** Water-dispersible submicrometer particles made of hydrophobic organic compounds and their size control by solvent-induced Ostwald ripening (Grad. Sch. Sci., The Univ. of Tokyo) LIU, Chao; HARANO, Koji; NAKAMURA, Eiichi

11:40–12:00 **2C5-17** Dispersion mechanism of calcium phosphate by acrylic acid-based polymers (Kurita Water Industries Research and Development Division; Fac. Sci. Tech., Keio Univ.) WATANABE, Kazuya; NISHIDA, Ikuko; MORITA, Akira; KAMIYAMA, Sachiko; IMAI, Hiroaki

Room C6 (School of Engineering - Bldg. 1, 143)

March 27th (THU)

- 11:40–12:00 **1C6-17** Zwitterionic Liquid Crystals as Ion-Transporting Media (Grad. Sch. Eng., The Univ. of Tokyo) SOBERATS, Bartolome; YOSHIO, Masafumi; ICHIKAWA, Takahiro; OHNO, Hiroyuki; KATO, Takashi
17:30–17:50 **1C6-52** Synthesis and Characterization of alternating Ni/Fe- & Co/Cu-Based Organic-Heterometallic Hybrid Polymers (NIMS Electronic functional materials group) HOSSAIN, Md. Delwar; HIGUCHI, Masayoshi

March 28th (FRI)

- 11:00–11:20 **2C6-13** Encapsulation of Fullerenes by Columnar Liquid Crystalline Bowl-Shaped Peptidic Macrocycle (Grad. Sch. Eng., The Univ. of Tokyo) SATO, Kohei; ITOH, Yoshimitsu; AIDA, Takuzo

Room C7 (School of Engineering - Bldg. 1, 144)

March 27th (THU)

- 9:40–9:50 **1C7-05** Molecular release from fluoros glass substrates triggered by increase in gas concentration in water (Grad. Sch. Sci., The Univ. of Tokyo) YAMADA, Junya; HARANO, Koji; NAKAMURA, Eiich
9:50–10:00 **1C7-06** Effect of surface structure on molecular release from fluoros surface triggered by increasing gas concentration in water (Grad. Sch. Sci., The Univ. of Tokyo) SEKI, Takakazu; YAMADA, Junya; HARANO, Koji; NAKAMURA, Eiichi
10:10–10:30 **1C7-08** Molecular Dynamics of Li Electrolyte Solution Penetrated into Porous Silica (Grad. Sch. Eng., Kobe Univ.) MAKI, Hideshi; FUJITANI, Munehiro; SOGAWA, Ren; MIZUHATA, Minoru

March 28th (FRI)

- 9:00–9:10 **2C7-01** Preparation of boron nitride nanoribbon by unzipping nanotubes in buthanol via sonication treatment (Grad. Sch. Sci., Eng., Tokyo Tech) KIM, Dukeun; SAWADA, Tosiki; KAWAUCHI, Susumu; ZHI, Chunyi; BANDO, Yoshio; GOLBERG, Dmitri; SERIZAWA, Takeshi
10:10–10:20 **2C7-08** Shear dynamics of confined ionic liquids (WPI-AIMR, Tohoku Univ.) CANOVA, Filippo; MATSUBARA, Hiroki; MIZUKAMI, Masashi; KURIHARA, Kazue; SHLUGER, Alexander

March 29th (SAT)

- 16:00–16:20 **3C7-43** Pentasubstituted Fullerene Amphiphiles with Low Critical Micelle Concentration, High Dispersion Ability and Controllable Surface Activity (Grad. Sch. Sci., The Univ. of Tokyo) NITTA, Hirohisa; ISOMURA, Mayuko; HARANO, Koji; NAKAMURA, Eiichi

Poster Room (Gymnasium)

March 29th (SAT) 12:30–14:00

- 3PB-005** Room temperature preparation of Pt nanomaterials in aqueous solution using Proton Beam Irradiation (Sunchon National University Dept. Chemistry) SONG, Jae
3PB-006 Dopant dependence of hydrogen storage properties for Pd-metal alloys (IFRC, Kyushu Univ.) BINTI ZULKIFLI, Nor diana; YAYAMA, Tomoe; ISHIMOTO, Takayoshi; KOYAMA, Michihisa

[Coordination Chemistry, Organometallic Chemistry]

Room C1 (School of Engineering - Bldg. 1, 121)

March 27th (THU)

- 10:20–10:30 **1C1-09** Structures and Properties of Dinuclear Rhodium(I) Complexes with Formamidinato Bridging Ligands (Fac. Sci. Eng., Shimane Univ.; Sch. Sci. Tech., Kwansai Gakuin Univ.) IDE, Yuki; IKEUE, Takahisa; INOUE, Ryoko; YOSHIOKA, Daisuke; MIKURIYA, Masahiro; HANDA, Makoto

March 28th (FRI)

- 14:40–14:50 **2C1-35** Application of Bis(cyclometalated)iridium Complexes toward Alcohol Oxidation and One-pot Dehydrogenative Silylation of Benzyl Alcohol Derivatives (Sch. Eng. Sci., Osaka Univ.) CHOI, Gyeongshin; TSURUGI, Hayato; MASHIMA, Kazushi

March 29th (SAT)

- 11:50–12:00 **3C1-18** Direct Preparation of Palladium and Platinum Planar-Shaped Multinuclear Complexes and Their Reactivities (Chem. Res. Lab., Tokyo Tech) TOI, Hiroyuki; TANABE, Makoto; OSKADA, Kohtaro
14:50–15:10 **3C1-36** Reversible Intermolecular Exchange of Aryl Ligands of Diarylplatinum(II) Complexes (Chem. Res. Lab., Tokyo Tech) YOSHIGOE, Yusuke; SUZAKI, Yuji; OSAKADA, Kohtaro

March 30th (SUN)

- 10:50–11:00 **4C1-12** Photochemical properties of bis(dipyrrinato)zinc dinuclear complexes (Grad. Sch. Sci., The Univ. of Tokyo) TSUCHIYA, Mizuho; KUSAKA, Shinpei; SAKAMOTO, Ryota; HIROSHI, Nishihara
15:00–15:20 **4C1-37** Reversible Solid-liquid Phase Transition of Protonic Coordination Polymers (Grad. Sch. Eng., Kyoto Univ.) UMEYAMA, Daiki; HORIKE, Satoshi; INUKAI, Munehiro; KITAGAWA, Susumu
15:30–15:50 **4C1-40** Direct X-ray Observation of Unstable Sulfur in a Kinetically Assembled Porous Coordination Network (POSTECH AMS) KITAGAWA, Hakuba; OHTSU, Hiroyoshi; KAWANO, Masaki
15:50–16:10 **4C1-42** Energy Phase Control Crystal Engineering in Coordination Network (POSTECH AMS) KOJIMA, Tatsuhiro; KITAGAWA, Hakuba; KAWANO, Masaki

Room C2 (School of Engineering - Bldg. 1, 131)

March 28th (FRI)

- 9:00–9:20 **2C2-01** Synthesis, characterization, and reactivity of novel silylenes utilizing functional groups (Technical University Berlin Institute of Chemistry) INOUE, Shigeoyoshi
9:30–9:40 **2C2-04** Synthesis of a Hydrido(hydrosilylene)tungsten Complex Having an Eind Group on the Silicon and Its Reaction with Carbodiimides (Grad. Sch. Sci., Tohoku Univ.) YOSHIMOTO, Takashi; HASHIMOTO, Hisako; HAYAKAWA, Naoki; MATSUO, Tsukasa; TOBITA, Hiromi

Room F1 (*Liberal Arts & Sciences Main Building, C13*)

March 30th (SUN)

- 14:00–14:10 **4F1-31** Structural conversion and adsorption properties of two-dimensional hollow-sheet-type coordination polymers (Grad. Sch. Sci., Kyushu Univ.) TANAKA, Sakuya; OHBA, Hisayoshi; MISHIMA, Akio; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 14:20–14:30 **4F1-33** Formation and luminescent properties of 2D sheet assemblage of Ag(I) ions by using dipeptide bridging ligand (Grad. Sch. Human. Sci., Ochanomizu Univ.) NAKAGAWA, Yuki; MIYAKE, Ryosuke
- 14:50–15:10 **4F1-36** Photocatalytic CO₂ reduction using novel type of photosensitizer (Grad. Sch. Sci., Eng., Tokyo Tech) ROHACOVA, Jana; TANAKA, Marina

Room F2 (*Liberal Arts & Sciences Main Building, C14*)

March 27th (THU)

- 10:20–10:30 **1F2-09** Reactions of a gallane(pyridyl)iron complex with esters (Gunma Univ. Faculty of Science and Technology) SITI, Nursaliha; MURAOKA, Takako; UENO, Keiji
- 16:20–16:30 **1F2-45** Cross-Dimerization between Conjugated Dienes and Styrene by a Ruthenium(0) Complex (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; JST ACT-C) UEDA, Takao; KOMINE, Nobuyuki; KOMIYA, Sanshiro; HIRANO, Masafumi
- 16:40–17:00 **1F2-47** From a Decomposition product to a Highly Efficient Multitasking Ruthenium Catalyst (University of St. Andrews School of Chemistry) MANZINI, Simone; FERNANDEZ-SALAS, Jose Antonio; NELSON, David J.; URBINA-BLANCO, César Alejandro; POATER, Albert; PIOLA, Lorenzo; SLAWIN, Alexandra M. Z.; CAVALLO, Luigi; NOLAN, Steven P.

March 29th (SAT)

- 10:10–10:30 **3F2-08** Highly selective gas separation by stimuli-responsive crystalline micropores (iCeMS, Kyoto Univ.) SATO, Hiroshi; MATSUDA, Ryotaro; KITAGAWA, Susumu
- 11:50–12:00 **3F2-18** Redox Switching of Alkyne Coupling Product through Dual Copper Catalytic Reactivity (Grad. Sch. Sci., Hiroshima Univ.) KUME, Shoko; NITTA, Yuya; MIZUTA, Tsutomu

March 30th (SUN)

- 10:30–10:40 **4F2-10** Controls in Interchain-Interaction and Physical Properties of Binuclear Copper (II) Polymers with Bulky Benzoate Ligands (Grad. Sch. Eng., Tohoku Univ.) TAKAHASHI, Kiyonori; HOSHINO, Norihisa; NORO, Shin-ichiro; NAKAMURA, Takayoshi; AKUTAGAWA, Tomoyuki
- 10:50–11:00 **4F2-12** Redox Property of Copper Complexes Bearing Pyridine-Linked Bis-aniline Pincer Ligand (Osaka Univ.) MORIMOTO, Yuma; ITOH, Shinobu
- 11:00–11:10 **4F2-13** Characterization of Cu-Complexes Supported by Non-innocent β -Diketiminato Ligands (Grad. Sch. Eng., Osaka Univ.) TAKAICHI, June; MORIMOTO, Yuma; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu
- 11:20–11:30 **4F2-15** Peroxide-reactivity of copper complexes supported by tridentate ligands having cyclic-diamine frameworks (Grad. Sch. Eng., Osaka Univ.) ABE, Tsukasa; OGURA, Takashi; MORIMOTO, Yuma; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu

Room F3 (*Liberal Arts & Sciences Main Building, C15*)

March 27th (THU)

- 9:20–9:40 **1F3-03** New Generation of Decoy molecules to Powerfully Activate Cytochrome P450BM3 for Small Alkanes Hydroxylation (RCMS, Nagoya Univ.; Grad. Sch. Sci., Nagoya Univ.; RIKEN SPring-8 Center, Harima Institute) CONG, Zhiqi; SHOJI, Osami; SUGIMOTO, Hiroshi; SHIRO, Yoshitsugu; WATANABE, Yoshihito
- 10:50–11:10 **1F3-12** Acid-Promoted Olefin Oxidation by Nonheme Iron(IV)-Oxo Complex via Proton-Coupled Electron Transfer (Grad. Sch. Eng., Osaka Univ.; ALCA, JST) PARK, Jiyun; LEE, Yong-min; NAM, Wonwoo; FUKUZUMI, Shunichi
- 14:50–15:10 **1F3-36** Spectroscopic Characterization and Reactivity Study of Mononuclear Copper-Oxygen Species (Grad. Sch. Eng., Osaka Univ.) PARIA, Sayantan; MORIMOTO, Yuma; SUGIMOTO, Hideki; ITOH, Shinobu

March 28th (FRI)

- 16:40–16:50 **2F3-47** Synthesis and Reactivity of Trivalent Cerium Complexes with Salen-based Ligands (Grad. Sch. Eng. Sci., Osaka Univ.) PAUL, Mitali; TERAMOTO, Masahiro; TSURUGI, Hayato; MASHIMA, Kazushi
- 17:10–17:20 **2F3-50** Synthesis and Structure of Discrete Ceria Nano-particles Surrounded by Carboxylate Ligands (Grad. Sch. Eng. Sci., Osaka Univ.) MATHEY, Laurent; AZUMA, Yuki; TSURUGI, Hayato; MASHIMA, Kazushi

March 29th (SAT)

- 9:10–9:20 **3F3-02** Structures and NMR-spectral Properties of Lantern-Type Diruthenium Complexes with Benzoate Bridges (Fac. Sci. Eng., Shimane Univ.; Sch. Sci. Tech., Kwansai Gakuin Univ.; Fac. Sci., Toho Univ.) HIRAOKA, Yuya; IKEUE, Takahisa; HIROMITSU, Ichiro; YOSHIOKA, Daisuke; MIKURIYA, Masahiro; NAKAMURA, Mikio; HANDA, Makoto
- 11:20–11:30 **3F3-15** Influence of charge of a metal center and characteristics of an ancillary ligand on redox properties of a pterin ligand (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; Pohang University of Science and Technology Advanced Materials Science Division) MITOME, Hiroumi; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KAWANO, Masaki; KOJIMA, Takahiko
- 15:00–15:10 **3F3-37** Oxidation Reactions of Organic Substrates with a Ru(III)-Hydroxo Complex as a Functional Model of Lipoyxygenase (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OHZU, Shingo; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko
- 15:10–15:20 **3F3-38** Photocatalytic hydrogen evolution by a ruthenium(II)-palladium(II) hetero-dinuclear complex (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) SAWAKI, Takuya; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko
- 17:20–17:40 **3F3-51** Change in Mechanism of Hydride Transfer from NADH Analogs to Nonheme Metal(IV)-Oxo Complexes Depending on Metal Species (Grad. Sch. Eng., Osaka Univ.; ALCA, JST) YOON, Heejung; LEE,

Yong-min; NAM, Wonwoo; FUKUZUMI, Shunichi

17:50–18:10 **3F3-54** Enhanced Photocatalytic Reactivity of Manganese(III) Corrolazine for Oxygenation of Toluene Derivatives with Dioxygen in the Presence of an Acid (Grad. Sch. Eng., Osaka Univ.; ALCA, JST) JUNG, Jieun; OHKUBO, Kei; FUKUZUMI, Shunichi

March 30th (SUN)

9:00–9:10 **4F3-01** Enhancement of proton transfer in coordination polymer by reducing the structural periodicity (Grad. Sch. Eng., Kyoto Univ.) CHEN, Wenqian; HORIKE, Satoshi; INUKAI, Munehiro; KITAGAWA, Susumu

16:30–16:40 **4F3-46** Effect of Counteranions on the Structure and the Solid-state Phase Transition of [2]pseudorotaxanes Composed of Dibenzo[24]crown-8-ether and Ferrocene-containing Dialkylammonium (Chem. Res. Lab., Tokyo Tech) FUKUCHI, Yugo; SUZAKI, Yuji; OSAKADA, Kohtarō

Room F4 (Liberal Arts & Sciences Main Building, S10)

March 29th (SAT)

9:10–9:20 **3F4-02** Ni-Catalyzed Carboxylation of Organoboron Reagents (University of St. Andrews School of Chemistry) MAKIDA, Yusuke; MARELLI, Enrico m.; NOLAN, Steven p.

9:20–9:30 **3F4-03** Development of Ni-SPRIX Catalysts toward Enantioselective Michael-Type Reaction of Indoles with Nitroolefins (ISIR, Osaka Univ.) DAS, Priyabrata; TAKENAKA, Kazuhiro; SASAI, Hiroaki

11:20–11:40 **3F4-15** X-ray snapshot observation of an active center in Pd-mediated carbon-halogen bond formation reaction within porous crystals (Grad. Sch. Eng., The Univ. of Tokyo) IKEMOTO, Koki; INOKUMA, Yasuhide; FUJITA, Makoto

March 30th (SUN)

10:50–11:00 **4F4-12** Copper-Catalyzed Boracarboxylation of Aromatic Aldehydes with Diborane and Carbon Dioxide. (RIKEN) CARRY, Beatrice; ZHANG, Liang; HOU, Zhaomin

13:00–13:20 **4F4-25** Photoreaction and optical properties of 1,2-bis(4-pyridyl)ethylene (bpe) assembly built around a ytterbium octaqua complex (Grad. Sch. Eng., Kanagawa Univ.) ORISAKU, Keiko; HINO, Ryotaro; YONEDA, Shohko; HIGASHI, Yoshihiro; IWAKURA, Izumi; KOIDE, Yoshihiro

13:20–13:40 **4F4-27** Spectroscopic study on tetravalent uranium compounds in non-aqueous solutions (NSED, JAEA) AOYAGI, Noboru; WATANABE, Masayuki; KIRISHIMA, Akira; SATO, Nobuaki; KIMURA, Takaumi

14:10–14:20 **4F4-32** Release of carbon monoxide using photoactive porous coordination polymers (Grad. Sch. Eng., Kyoto Univ.) ZHANG, Jicheng; DIRING, Stéphane; KIM, Chiwon; FURUKAWA, Shuhei; KITAGAWA, Susumu

14:30–14:40 **4F4-34** Electrochemical investigation of dihydroxo silicon(IV) porphyrins (Urban Environmental Sci., Tokyo Metropolitan Univ.) REMELLO, Sebastian nybin; HIRANO, Takehiro; YAMAMOTO, Daisuke; ONUKI, Satomi; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo

Room F5 (Liberal Arts & Sciences Main Building, S11)

March 29th (SAT)

9:00–9:20 **3F5-01** Reactivity of Magnesium Alkyl Complexes Bearing Amino-Amido Ligands towards Alkynes (Grad. Sch. Eng. Sci., Osaka Univ.) ROCHAT, Raphael; YAMAMOTO, Koji; TSURUGI, Hayato; MASHIMA, Kazushi

10:20–10:30 **3F5-09** Functionalization of Imido and Nitrido Polynuclear Titanium Complexes Formed by Dinitrogen Activation (RIKEN CSRS) HU, Shaowei; SHIMA, Takanori; HOU, Zhaomin

10:40–10:50 **3F5-11** Zirconium catalyzed C-C bond formation reaction via zirconacyclopentenes (CRC, Hokkaido Univ.) HSIEH, Yifang; TAKIZAWA, Shota; SONG, Zhiyi; TAKAHASHI, Tamotsu

March 30th (SUN)

10:20–10:40 **4F5-09** Remarkable effect of substituents on the molybdenum-catalyzed transformation of molecular dinitrogen into ammonia (Grad. Sch. Eng., The Univ. of Tokyo) KURIYAMA, Shogo; ARASHIBA, Kazuya; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

10:50–11:00 **4F5-12** Reactions of silylene- and silanonetungsten complexes with 2,4,6-trimethylbenzotrile-*N*-oxide (Gunma Univ. Faculty of Science and Technology) GAMA, Trigagema; MURAOKA, Takako; UENO, Keiji

Room G6 (Liberal Arts & Sciences Main Building, S20)

March 30th (SUN)

15:00–15:10 **4G6-37** Incorporation of Lipophilic Salen Complexes into Liposomes and Expression of Their Functions (Grad. Sch. Sci., Kyushu Univ.) NAKANISHI, Keita; HATAE, Tatsuru; KOSHIYAMA, Tomomi; OHBA, Masaaki

Poster Room (Gymnasium)

March 28th (FRI) 12:30–14:00

2PB-051 Control synthesis of Cr porous coordination polymers with different reactivity (Grad. Sch. Eng., Kyoto Univ.) KONGPATPANICH, Kanokwan; HORIKE, Satoshi; KITAGAWA, Susumu

2PB-052 Selective adsorption of CO₂ over C₂H₂ in a manganese porous coordination polymer (iCeMS, Kyoto Univ.) FOO, Maw lin; MATSUDA, Ryotaro; KITAGAWA, Susumu

2PB-058 Efficient Molecular Iron Catalysts for CO₂ Reduction by Incorporating Local Proton Mediator (Inst. Sci. Tech. Res., Chubu Univ.) MAJUMDER, Samit; OHTA, Takehiro; NARUTA, Yoshinori

2PB-067 Synthesis of bio-inspired iron porphyrin catalysts and its application for highly efficient oxygen reduction reaction (Chubu Univ. Inst. of Sci. Tech. Res.) NAGARAJU, Perumandla; LIU, Jin-gang; OHTA, Takehiro; NARUTA, Yoshinori

2PB-083 Layer-by-Layer fabrication of surface covalent nanostructure with porphyrin derivatives and 1,4-phenylene diisocyanate (Sch. Mat. Sci., JAIST) LAMLUA, Banjongsak; OHYAMA, Takahiro; NAGAO, Yuki

2PB-095 Studies on the Selective Binding Properties Involving New Conceptual Host Controlled Molecular Recognition using Macrocyclic Complexes (Sunchon National University Dept. of Chemistry) KWAK, Chee-hun; LEE, Jae myung; CHUNG, Minchul

2PB-105 Structures, synthesis of metal-organic frameworks with highly pi-conjugated ligand (Grad. Sch. Sci.,

- Tohoku Univ.) WU, Bin; TAKAISHI, Shinya; YAMASHITA, Masahiro
- 2PB-108** Top-down fabrication and application of crystalline metal-organic framework nanosheets (UBIQEN, AIST) SONG, Fuzhana; XU, Qiang
- 2PB-109** Photoreactive porous coordination polymers based on reversible cyclization reactions (iCeMS, Kyoto Univ.) ZHENG, Yongtai; SATO, Hiroshi; KITAGAWA, Susumu
- 2PB-121** Efficient solar-driven CO₂ reduction with p-CuO photocathode/catalyst assembly (Chubu Univ. Inst. of Sci. & Tech. Res.) MOHAMED, Eman a.; ZAHHRAN, Zakinabeih; NARUTA, Yoshinori
- 2PB-126** Multipoint arene-perfluoroarene interactions for self-assembly of ruthenium paddle-wheel dimers with open axial sites (IMS; SOKENDAI; JST ACT-C) CHINAPANG, Pondchanok; ITOH, Takahiro; KONDO, Mio; MASAOKA, Shigeyuki
- 2PB-142** Highly-dispersed AuNi Alloy Nanoparticles Encapsulated in MIL-101 as High-performance Catalyst for Hydrolytic Dehydrogenation of Ammonia Borane (UBIQEN, AIST) LI, Jun; ZHU, Qi-long; XU, Qiang
- 2PB-148** Synthesis and Characterization of Platinum Complexes for Photoluminescence Materials (Suncheon National University Dept. Chemical Engineering) SHON, Seokhwan; KWAK, Cheehun; CHUNG, Minchul
- 2PB-165** Modification of the Single-Molecule Magnet Behaviors of lanthanide complexes (Grad. Sch. Sci., Tohoku Univ.) COSQUER, Goulven; MORIMOTO, Masakazu; YAMASHITA, Masahiro
- 2PB-174** Dithiolate-Bridged Dinuclear Iron-Nickel Complexes in Various Oxidation States Modeling the Active Site of [NiFe] Hydrogenase (RCMS, Nagoya Univ.) ZILONG, Li; YASUHIRO, Ohki; KAZUYUKI, Tatsumi

[Energy and Related Chemistry]

Room H2 (Liberal Arts & Sciences Main Building, C33)

March 27th (THU)

- 9:40–10:00 **1H2-05** Efficient solar-driven hydrogen production with p-CuO photocathode (Inst. Sci. Tech. Res., Chubu Univ.) ZAHHRAN, Zaki; MOHAMED, Eman; NARUTA, Yoshinori
- 14:40–15:00 **1H2-35** In-situ XAFS, STEM/EDS and electrochemical analyses of MEA Pt/C catalyst deterioration during repeated anode gas exchange cycles (Innovation Res. Ctr. for Fuel Cells, The Univ. of Electro-Communications) SAMJESKE, Gabor; HIGASHI, Koutarou; TAKAO, Shinobu; NAGAMATSU, Shinichi; NAGASAWA, Kensaku; SEKIZAWA, Oki; KANEKO, Takuma; IMAIZUMI, Yoshiaki; URUGA, Tomiya; IWASAWA, Yasuhiro
- 16:40–17:00 **1H2-47** The elucidation of ionic behaviors in carbon electrodes of electric double layer capacitors in charging and discharging processes. (ENCs, Shinshu Univ.) FUTAMURA, Ryusuke; IYAMA, Taku; FUJIMORI, Toshihiko; IWAMA, Etsuro; SIMON, Patrice; HATA, Kenji; KANEKO, Katsumi

March 28th (FRI)

- 10:20–10:40 **2H2-09** Energy-Storable Dye-Sensitized Solar Cells with High Voltage (RCAST, The Univ. of Tokyo) AWAI, Fumiyasu; SASAKI, Mari; NAKAZAKI, Jotaro; KUBO, Takaya; SEGAWA, Hiroshi
- 14:10–14:20 **2H2-32** TCO-less back contact dye sensitized solar cell using zinc porphyrin dye based on cobalt based redox electrolyte (Grad. Sch. Life Sci. Sys. Eng., KIT) MOLLA, Md. zaman; PANDEY, Shyam sudhir; OGOMI, Yuhei; MA, Tingli; HAYASE, Shuzi
- 14:20–14:30 **2H2-33** Approaches implemented to enhance the photovoltaic characteristics of Coil based TCO-less cylindrical dye sensitized solar cells (Grad. Sch. Life Sci. Sys. Eng., KIT) KAPIL, Gaurav; PANDEY, Shyam sudhir; OGOMI, Yuhei; MA, Tingli; HAYASE, Shuzi

March 29th (SAT)

- 15:00–15:10 **3H2-37** Synthesis, Characterization and Aggregations Studies of Phosphorous Phthalocyanine Towards its Application in Dye Sensitized Solar Cells (Grad. Sch. Life Sci. Sys. Eng., KIT) SHIVASHIMPI, Gururaj m; PANDEY, Shyam sudhir; HAYAT, Azwar; FUJIKAWA, Naotaka; OGOMI, Yuhei; YAMAGUCHI, Yoshihiro; HAYASE, Shuzi

March 30th (SUN)

- 10:10–10:30 **4H2-08** Enhanced Nucleation in Thin Films of Organic Donor Materials on PEDOT:PSS (Grad. Sch. Sci., The Univ. of Tokyo) OKADA, Satoshi; FURUKAWA, Syunsuke; TANAKA, Hideyuki; HARANO, Koji; NAKAMURA, Eiichi
- 11:10–11:20 **4H2-14** Effects of Alky Chain Lengths and Regioisomers on Photovoltaic Performance of Dihydronaphthyl-Based [60]Fullerene Bisadduct (Grad. Sch. Eng., Kyoto Univ.; iCeMS, Kyoto Univ.) TAO, Ran; KUROTOBI, Kei; UMEYAMA, Tomokazu; IMAHORI, Hiroshi
- 11:20–11:40 **4H2-15** Enhanced efficiency in solution-processed p-i-n type organic solar cells fabricated via the photoprecursor approach (Grad. Sch. Mat. Sci., NAIST; Grad. Sch. Sci., Eng., Yamagata Univ.; JST-CREST) SUZUKI, Mitsuharu; YAMAGUCHI, Yuji; YAMAMOTO, Shinpei; NAKAYAMA, Ken-ichi; YAMADA, Hiroko
- 13:00–13:20 **4H2-25** Emission wavelength tuning of thermally activated delayed fluorescence emitters by delocalization of intramolecular charge transfer excited state (OPERA, Kyushu Univ.) TANAKA, Hiroyuki; SHIZU, Katsuyuki; NAKANOTANI, Hajime; ADACHI, Chihaya

Poster Room (Gymnasium)

March 28th (FRI) 15:00–16:30

- 2PC-131** Photoelectrochemical behavior of TiO₂⁺WO_x Nanotubes (Sch. Mat. Sci., JAIST) VEDARAJAN, Raman; IKEDA, Shoto; MATSUMI, Noriyoshi
- 2PC-137** Platinum/acetylene black nano composite for enhanced oxygen reduction reaction (Sch. Mat. Sci., JAIST) BADAM, Rajashekar; VEDARAJAN, Raman; MATSUMI, Noriyoshi

[Environmental and Green Chemistry, Geo and Space Chemistry]

Room E3 (School of Engineering - Bldg. 3, 332)

March 27th (THU)

- 11:00–11:20 **1E3-13** Plasmon-induced water splitting under visible light irradiation using gold nanostructured strontium titanate single crystals (RIES, Hokkaido Univ.) ZHONG, Yuqing; MORI, Yuko; UENO, Kosei; OSHIKIRI, Tomoya; MISAWA, Hiroaki
- 15:10–15:20 **1E3-38** Chemical kinetic mechanism for thermal decomposition of low molecular weight-methyl esters (Grad. Sch. Eng., Osaka Pref. Univ.) PHAN, Quang thang; TAKENAKA, Norimichi
- 15:30–15:50 **1E3-40** Development of Cyclic Amine Absorbents for CO₂ Capture (RITE; NSSMC) CHOWDHURY, Firoz; YAMADA, Hidetaka; YOICHI, Matsuzaki; HIGASHII, Takayuki

Poster Room (Gymnasium)

March 27th (THU) 12:30–14:00

- 1PB-156** Oxidative degradation of Tribromophenol catalyzed by Fe₃O₄ supported iron(III) porphyrin catalyst (Sch. Eng., Hokkaido Univ.) ZHU, Qianqian; NISHIMOTO, Ryo; MAENO, Shohei; MIYAMOTO, Takafumi; FUKUSHIMA, Masami

[Functions of Materials]

Room E5 (School of Engineering - Bldg. 3, 341)

March 27th (THU)

- 10:30–10:50 **1E5-10** Carrier mobility of the binary system with perfluoroalkylated non-peripheral type phthalocyanine liquid crystal and C₆₀ derivative (UBIQEN, AIST) SOSA-VARGAS, Lydia; NEKELSON, Fabien; OKUDA, Daiju; TAKAHASHI, Minokazu; YOSHIDA, Hiroyuki; FUJII, Akihiko; OZAKI, Masanori; SHIMIZU, Yo
- 10:50–11:10 **1E5-12** Photoinduced electron transfer in covalent organic frameworks (Institute for Molecular Science Material Molecular Science) JIN, Shangbin; JIANG, Donglin

March 29th (SAT)

- 10:20–10:30 **3E5-09** White-Color Emission from Single Material: Photoluminescence Behavior of Polymer Liquid Crystals with Gold(I) Complexes as a Mesogen (Coll. Life Sci., Ritsumeikan Univ.) YOUNIS, Osama; TAMAI, Sho; TSUTSUMI, Osamu
- 10:30–10:50 **3E5-10** Laser flash photolysis study of polyfluorinated cationic surfactants containing azobenzene moiety confined in nano-layered microenvironment (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) RAMAKRISHNAN, Vivek; Horiguchi, Haruo; YAMAMOTO, Daisuke; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo

Poster Room (Gymnasium)

March 28th (FRI) 10:00–11:30

- 2PA-096** Photochemical Behavior of Metal-Ion Doped Titanate Nanosheet/Porphyrin Alternating Stacked Films (Fac. Sci. Eng., Shimane Univ.) SOONTORNCHAIYAKUL, Wasusate; SASAI, Ryo

[Inorganic Chemistry]

Room F1 (Liberal Arts & Sciences Main Building, C13)

March 27th (THU)

- 15:10–15:20 **1F1-38** Ultra-thin HKUST-1 Film on TiO₂ (110) Probed by Polarization-Dependent Total Reflection Fluorescence XAFS (International Christian University College of Liberal Arts) OKAJIMA, Satoshi; HASHIMOTO, Miyuki; HARA, Kenji; KONDO, Toshiro; CHUN, Wang-jae
- 15:30–15:50 **1F1-40** Synthesis of non-siliceous mesoporous thin films toward high-performance devices (NIMS International Center for Young Scientists (ICYS)) SUZUKI, Norihiro; YAMAUCHI, Yusuke

March 28th (FRI)

- 10:20–10:30 **2F1-09** Synthesis of IrO₂ Nanosheet (Fac. Textile Sci. Technol., Shinshu Univ.) SUGIMOTO, Wataru; SHIMIZU, Wataru
- 10:30–10:50 **2F1-10** Structure Basis for Emergence of the Superionic Conductivity in an Ion-Exchange Na_xCoO₂ (RIKEN Spring-8 Center; JST CREST) KATO, Kenichi; KASAI, Hidetaka; HORI, Akihiro; TAKATA, Masaki; KITAGAWA, Susumu; TANAKA, Hiroshi; KOBAYASHI, Akira; OZAWA, Nobuki; KUBO, Momoji; ARIKAWA, Hidekazu; TAKEGUCHI, Tatsuya; SADAKEYO, Masaaki; YAMAUCHI, Miho
- 10:50–11:10 **2F1-12** Structure Basis for Emergence of the Ionic Conductivity in an Intercalation LaSr₃Fe₃O₁₀ (RIKEN Spring-8 Center; JST CREST) KASAI, Hidetaka; KATO, Kenichi; HORI, Akihiro; TAKATA, Masaki; KITAGAWA, Susumu; TANAKA, Hiroshi; ARIKAWA, Hidekazu; TAKEGUCHI, Tatsuya; SADAKEYO, Masaaki; YAMAUCHI, Miho
- 11:20–11:40 **2F1-15** Design and Synthesis of Hydroxide Ion-Conductive Metal-Organic Frameworks Based on Salt Inclusion (I₂CNER, Kyushu Univ.) SADAKEYO, Masaaki; KASAI, Hidetaka; KATO, Kenichi; TAKATA, Masaki; YAMAUCHI, Miho

[Material Chemistry]

Room E4 (School of Engineering - Bldg. 3, 333)

March 27th (THU)

- 10:30–10:50 **1E4-10** Luminescent Polymorphism of Gold Complexes: Mechano-Triggered Single-Crystal-to-Single-Crystal Phase Transition and White Luminescence through Mixed Polymorphs (Grad.

Fac. Eng., Hokkaido Univ.; Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) SEKI, Tomohiro; SAKURADA, Kenta; ITO, Hajime

11:00–11:10 **1E4-13** Synthesis and Device Performance of Naphthalene and Perylene diimide based electron Acceptors (ISIR, Osaka Univ.) CHATTERJEE, Shreyam; KARAKAWA, Mokoto; IE, Yutaka; ASO, Yoshio

12:10–12:20 **1E4-20** Synthesis, Structure and Photoelectric Properties of DPh-BTBT/P2V2TT Co-crystal System (Grad. Sch. Sci., Tohoku Univ.) MU, Shuai; TAKAISHI, Shinya; YAMASHITA, Masahiro

14:10–14:20 **1E4-32** Carboxylic group assisted self-assembly of covalent porous organic cages with tetraphenylmethane skeleton (Grad. Sch. Sci., Tohoku Univ.) MENGQI, Gao; SHINYA, Takaishi; MASAHIRO, Yamashita

15:30–15:40 **1E4-40** A Study on the size controlled synthesis and emission spectra of Lanthanide doped upconversion nanoparticle. (Grad. Sch. Eng., Nagoya Univ.) PILLAI, Sreenadh sasadharan; OKAMOTO, Yukihiro; YUKAWA, Hiroshi; KAJI, Noritada; BABA, Yoshinobu

17:00–17:20 **1E4-49** Solid-state redox of molecular oxide embedded in atomic layer deposition film (Harvard Univ. Department of Chemistry & Chemical Biology; NIMS Environment and Energy Materials Division) SATOH, Norifusa; GORDON, Roy

March 30th (SUN)

10:20–10:40 **4E4-09** Facile and Universal Method for Ionic Liquid Preparation through Evaporation of HX Gas (RLNR, Tokyo Tech) TAKAO, Koichiro

[Natural Products Chemistry]

Room H6 (Liberal Arts & Sciences Main Building, C42)

March 27th (THU)

11:40–12:00 **1H6-17** Asymmetric Synthesis of Chiral Diamines by Imino Cyclization (RIKEN Biofunctional Synthetic Chemistry Laboratory) PRADIPTA, Ambara rachmat; TANAKA, Katsunori

March 28th (FRI)

14:30–14:50 **2H6-34** Synthesis and Biological Activities of Mycobacterium Peptidoglycan (PGN) Fragments Containing MurNGlyc (Grad. Sch. Sci., Osaka Univ.) WANG, Qianqian; MATSUO, Yusuke; FUJIMOTO, Yukari; FUKASE, Koichi

16:30–16:40 **2H6-46** Development of effective glycosylation using In (III) (Grad. Sch. Sci., Osaka Univ.) SALMASAN, Regina; KITAWAKI, Yuriko; MANABE, Yoshiyuki; FUKASE, Koichi

17:00–17:20 **2H6-49** Systematic Synthesis of Homogeneous Erythropoietin Analogs Bearing a High Mannose-type Oligosaccharide and the Functional Analysis of Folding Sensor Enzyme UGGT (Grad. Sch. Sci., Osaka Univ.; ERATO, JST; ASI, RIKEN) KIUCHI, Tatsuto; OKAMOTO, Ryo; IZUMI, Masayuki; SEKO, Akira; ITO, Yukishige; KAJIHARA, Yasuhiro

March 29th (SAT)

13:50–14:00 **3H6-30** En Route to the Total Synthesis of Ardimerin and Ardimerin Digallate (Grad. Sch. Sci., Eng., Tokyo Tech) TANZER, Eva-maria; OHMORI, Ken; SUZUKI, Keisuke

Room H7 (Liberal Arts & Sciences Main Building, C43)

March 27th (THU)

10:10–10:30 **1H7-08** Cyclase Phase of Steroids via a Convergent and Divergent Approach (The Scripps Research Institute department of chemistry) DAO, Hai; BARAN, Phil

11:50–12:10 **1H7-18** Isolation and Structure Analysis of Novel Secondary Metabolites from Marine Invertebrates (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) KAWAMURA, Atsushi; KITA, Masaki; KIGOSHI, Hideo

March 28th (FRI)

9:20–9:40 **2H7-03** Establishment of the Methodology to Functionalize Cage-Shaped Structure of Physalins Utilizing Site-Selective C-H Insertion Reaction (RIKEN; Grad. Sch. Sci., Kyoto Univ.; Tokyo Med. and Dental Univ.; ERATO-JST) MORITA, Masaki; KOJIMA, Shuntaro; HIRAI, Go; SODEOKA, Mikiko

14:40–14:50 **2H7-35** Molecular Target of Ladder Shaped-Polyether Yessotoxin (Grad. Sch. Sci., Osaka Univ.) KURNIATI, Dian; MATSUMORI, Nobuaki; USUI, Takeo; SATAKE, Masayuki; TACHIBANA, Kazuo; MURATA, Michio

Poster Room (Gymnasium)

March 27th (THU) 12:30–14:00

1PB-003 Constituents of Lamium Prupreum (Ichinoseki National College of Thecnology Department of Chemical Engineering) SATO, Kiyoko

[Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds]

Room B6 (E&S Building, ES025)

March 27th (THU)

13:30–13:50 **1B6-28** Copolymerization of carbon dioxide and dienes via lactone intermediate (Grad. Sch. Eng., The Univ. of Tokyo) NAKANO, Ryo; ITO, Shingo; NOZAKI, Kyoko

14:20–14:30 **1B6-33** An Efficient Synthesis of Isocoumarins via N-Heterocyclic Carbene-Copper Complex Catalyzed Three-Component Coupling Reactions of Benzynes, Terminal Alkynes, and Carbon Dioxide (Grad. Sch. Sci., The Univ. of Tokyo) NGUYEN VU QUANG, Thanh; YOO, Woo-Jin; KOBAYASHI, Shu

17:00–17:20 **1B6-49** Catalytic Hydrogenation of Carboxamides Using Ru Complex Bearing Tetradentate Ligand (Grad. Sch. Sci., Nagoya Univ.) MIURA, Takashi; NARUTO, Masayuki; NOYORI, Ryoji; SAITO, Susumu

March 28th (FRI)

11:20–11:40 **2B6-15** Site-Selective Aerobic Oxygenation of sp³ C-H Bonds of Alcohols Covalently Bound to N-Oxyl Radical Activator (Grad. Sch. Pharm., The Univ. of Tokyo) OISAKI, Kounosuke; OZAWA, Jun; NI, Jizhi;

TASHIRO, Masayuki; KANAI, Motomu

- 14:10–14:20 **2B6-32** Phase-transfer catalyzed asymmetric synthesis of 5,5-disubstituted unsaturated γ -lactams (Grad. Sch. Sci., Kyoto Univ.) ARLT, Alexander; HASHIMOTO, Takuya; MARUOKA, Keiji
- 16:20–16:30 **2B6-45** Boronic Acid-DMAP(O) Cooperative Catalysis for Dehydrative Condensation between Carboxylic Acids and Amines (Grad. Sch. Eng., Nagoya Univ.) LU, Yanhui; ISHIHARA, Kazuaki
- 16:40–16:50 **2B6-47** Asymmetric catalytic activity of quaternary ammonium salts of cinchona alkaloid containing acetylenic moiety (Toyohashi Univ. of Tech.) HASSAN, Md. mehadi; HARAGUCHI, Naoki; ITSUNO, Shiniti

March 29th (SAT)

- 10:50–11:10 **3B6-12** Development of Catalytic Imine-imine Cross Coupling Reactions (Grad. Sch. Sci., The Univ. of Tokyo) MATSUMOTO, Masatoshi; HARADA, Masashi; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 11:50–12:10 **3B6-18** N-Heterocyclic Carbene Catalyzed Umpolung of Michael Acceptors (Nagoya Inst. of Tech. Department of Materials Science and Engineering) MATSUOKA, Shin-ichi; KATO, Terumasa; NAMERA, Shoko; NAKAZAWA, Masanori; TAKAGI, Koji; SUZUKI, Masato

Room B7 (E&S Building, ES033)

March 27th (THU)

- 16:20–16:40 **1B7-45** Dehydrogenation of primary alcohols using metal oxide photocatalysts under visible light irradiation (RCMS, Nagoya Univ.; Grad. Sch. Sci., Nagoya Univ.; Inst. Adv. Res., Nagoya Univ.; Fac. Sci., Tokyo Univ. of Sci.) NAKA, Hiroshi; LIU, Zijun; CANER, Joaquim; KUDO, Akihiko; NOYORI, Ryoji; SAITO, Susumu
- 17:00–17:10 **1B7-49** Visible Light-Mediated Chan-Lam Coupling Reactions of Arylboronic Acids and Amines (Grad. Sch. Sci., The Univ. of Tokyo) YOO, Woo-Jin; TSUKAMOTO, Tatsuhiko; KOBAYASHI, Shu

March 28th (FRI)

- 14:40–15:00 **2B7-35** Study of heterogeneous organic reactions using real-time reaction monitoring with mass spectrometry (Grad. Sch. Sci., The Univ. of Tokyo) MASUDA, Koichiro; KOBAYASHI, Shu
- 16:00–16:10 **2B7-43** Cu(II) catalysis in asymmetric boron conjugate additions in organic solvents (Grad. Sch. Sci., The Univ. of Tokyo) ZHU, Lei; KITANOSONO, Taku; XU, Pengyu; KOBAYASHI, Shu
- 16:10–16:30 **2B7-44** Stereoselective synthesis of densely heterofunctionalized molecules by secondary amine catalysts (Grad. Sch. Sci., Kyoto Univ.) SAKAMOTO, Ryu; KANO, Taichi; MARUOKA, Keiji

Room B8 (E&S Building, ES034)

March 27th (THU)

- 16:00–16:20 **1B8-43** Catalytic asymmetric [3+2] cycloaddition for indole compounds containing quaternary chiral carbon center (Grad. Sch. Sci., Chiba Univ.) AWATA, Atsuko; ARAI, Takayoshi

March 28th (FRI)

- 10:10–10:30 **2B8-08** Development of Efficient Asymmetric [3+2] Cycloaddition Reactions Using Chiral Copper Amide Catalysts (Grad. Sch. Sci., The Univ. of Tokyo) YOSHIMOTO, Susumu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

March 29th (SAT)

- 17:50–18:00 **3B8-54** Enantioselective Organocatalyzed Synthesis of Cyclobutanes via formal [2+2] Cycloaddition (ISIR, Osaka Univ.) ARTEAGA, Fernando arteaga; TAKIZAWA, Shinobu; SASAI, Hiroaki

[Organic Chemistry -Reaction and Synthesis- Aromatic Compounds]

Room A2 (School of Agricultural Sciences - Lecture Bldg. & Bldg. B, #8)

March 27th (THU)

- 10:30–10:40 **1A2-10** Regioselective synthesis of 1,4-bisfunctionalized fullerenes via NBS-promoted oxidation of fullerene monoradical (WPI-AIMR, Tohoku Univ.) SI, Weili; ASAO, Naoki; YAMAMOTO, Yoshinori; JIN, Tienan
- 11:40–11:50 **1A2-17** Iterative Suzuki-Miyaura Coupling for Oligo(naphthalene-2,3-diyl)s with a Chiral Terminal Boronyl Group: Synthesis and Control of the Chiral Conformation (Grad. Sch. Eng., Kyoto Univ.) ISHIBASHI, Aoi; YAMAMOTO, Takeshi; SUGINOME, Michinori
- 15:50–16:00 **1A2-42** The synthesis of ethynylhelicene oligomers with gunidinium terminus (Grad. Sch. Pharm. Sci., Tohoku Univ.) SAITO, Nozomi; YAN, Liwei; YAMAGUCHI, Masahiko

March 28th (FRI)

- 13:30–13:50 **2A2-28** Oxidative Dimerization of (Hetero)aromatic Amines Utilizing *tert*-Butyl Hypoiodite Leading to (Hetero)aromatic Azo Compounds (Grad. Sch. Eng., Osaka Univ.) OKUMURA, Sota; LIN, Chun-hsuan; TAKEDA, Youhei; MINAKATA, Satoshi
- 14:00–14:20 **2A2-31** Efficient synthesis of multisubstituted benzofurans from phenols by extended Pummerer reaction (Grad. Sch. Sci., Kyoto Univ.) MURAKAMI, Kei; YORIMITSU, Hideki; OSUKA, Atsuhiko

March 29th (SAT)

- 9:00–9:10 **3A2-01** Selective hydrogenation of nitroarenes catalyzed by Pd-based alloy nanoparticles (WPI-AIMR, Tohoku Univ.; Grad. Sch. Sci., Tohoku Univ.) YANG, Lin; ZHAO, Ming; ASAO, Naoki

[Organic Chemistry -Reaction and Synthesis- Heteroatom Compounds]

Room B5 (E&S Building, ES024)

March 27th (THU)

- 13:30–13:40 **1B5-28** Brønsted acid-catalyzed selective hydroboration of alkynylboronates (WPI-AIMR, Tohoku Univ.) HO, Hon eong; ASAO, Naoki; YAMAMOTO, Yoshinori; JIN, Tienan
- 15:30–15:40 **1B5-40** Reaction of boryl metal species with dihydrogen (Grad. Sch. Eng., The Univ. of Tokyo; Fac. Sci. Eng., Chuo Univ.) ARAMAKI, Yoshitaka; ZHAO, Xiaoxi; YAMASHITA, Makoto; NOZAKI, Kyoko

March 29th (SAT)

- 16:50–17:10 **3B5-48** Ni / B(C₆F₅)₃ Catalyst System for Highly Selective Crossed-Esterification of Trifluoromethylketones with Aldehydes (Grad. Sch. Eng., Osaka Univ.) DOI, Ryohei; OHASHI, Masato; OGOSHI, Sensuke
- 18:00–18:20 **3B5-55** Synthetic Studies on Organoselenium-substituted Phosphenium Cations (ICR, Kyoto Univ.) SUGAMATA, Koh; VILLALBA FRANCO, José manuel; SASAMORI, Takahiro; TOKITOH, Norihiro

[Organic Chemistry -Reaction and Synthesis- Heterocyclic Compounds]

Room A3 (School of Agricultural Sciences - Lecture Bldg. & Bldg. B, #5)

March 28th (FRI)

- 9:30–9:50 **2A3-04** Asymmetric synthesis and catalytic activities of novel flavinium salts (The University of Toledo Department of Chemistry) YAMAMOTO, Kana; ARIMITSU, Kenji; ALMALITI, Jihad

March 29th (SAT)

- 9:20–9:40 **3A3-03** Synthesis of 2-Aryl-5-nitropyridines by Three Component Ring Transformation of 3,5-Dinitro-2-pyridone (KUT) LE, Thi song; ASAHARA, Haruyasu; SUGIMOTO, Ryuichi; KOBIRO, Kazuya; SAIGO, Kazuhiko; NISHIWAKI, Nagatoshi
- 10:00–10:20 **3A3-07** Regioselective Rapid Synthesis of Fully Substituted 1,2,3-Triazoles Mediated by Propargyl Cations (Grad. Sch. Mat. Sci., NAIST) ZHANG, Huan; TANIMOTO, Hiroki; KAKIUCHI, Kiyomi

[Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis]

Room B9 (E&S Building, ES035)

March 27th (THU)

- 13:40–14:00 **1B9-29** Efficient amide bond formation through a rapid and strong activation of carboxylic acid, and its application for a synthesis of feglymycin (Grad. Sch. Sci., Eng., Tokyo Tech) MIFUNE, Yuto; FUSE, Shinichiro; TANAKA, Hiroshi; TAKAHASHI, Takashi
- 14:10–14:30 **1B9-32** Multi-step Flow Synthesis of Optical Active γ -Amino Acid Derivatives (Grad. Sch. Sci., The Univ. of Tokyo) TSUBOGO, Tetsu; KOBAYASHI, Shu
- 16:10–16:20 **1B9-44** Hydrogenation of aromatic compounds using polysilane supported rhodium/platinum nanoparticles (Grad. Sch. Sci., The Univ. of Tokyo) TAMMINANA, Ramana; YASUKAWA, Tomohiro; MIYAMURA, Hiroyuki; KOBAYASHI, Shu

March 28th (FRI)

- 9:40–10:00 **2B9-05** The Development of an Enzyme-Mimetic System with Catechol-Stabilized Naked Platinum Nanoclusters: Homogeneous Cooperative Catalysis for Aerobic Oxidation of Amines to Imines (Grad. Sch. Sci., The Univ. of Tokyo) YUAN, Hao; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 11:20–11:40 **2B9-15** Development of asymmetric synthesis catalyzed by biomass supported chiral rhodium nanoparticles and study of structure (Grad. Sch. Sci., The Univ. of Tokyo) YASUKAWA, Tomohiro; MIYAMURA, Hiroyuki; KOBAYASHI, Shu

March 29th (SAT)

- 10:10–10:30 **3B9-08** The Effects of Amide Addition and Size of Nanoparticles in Aerobic Oxidation Reactions Catalyzed by Polymer Incarcerated Gold Nanoparticles (Grad. Sch. Sci., The Univ. of Tokyo) MIN, Hyemin; SOULE, Jean-Francois; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 10:30–10:40 **3B9-10** N-Alkylation of primary amides via hydrogen autotransfer facilitated by metal nanoparticles (Grad. Sch. Sci., The Univ. of Tokyo) CHOO, Chong Yu Gerald; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 10:40–10:50 **3B9-11** Aerobic oxidative aromatization catalyzed by polymer incarcerated gold nanocluster (Grad. Sch. Sci., The Univ. of Tokyo) MIYAMURA, Hiroyuki; KOBAYASHI, Shu

[Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry]

Room B1 (E&S Building, 101 (E&S Hall))

March 27th (THU)

- 9:00–9:10 **1B1-01** Enantioselective Synthesis of α -Chiral (E)- γ -Alkoxyallylboronates via Copper(I)-Catalyzed Nucleophilic γ -Boryl-Substitution of Allyl Acetals (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) TAKENOUCHI, Yuta; YAMAMOTO, Eiji; OZAKI, Taichi; ITO, Hajime
- 9:10–9:20 **1B1-02** Enantioselective Monoborylation of Alkenylsilanes Catalyzed by a Chiral Phosphine-Copper(I) Complex (Grad. Sch. Chi Sci. and Eng., Hokkaido Univ.) KUBOTA, Koji; YAMAMOTO, Eiji; ITO, Hajime
- 10:50–11:00 **1B1-12** Splitting water with aluminum porphyrins (Urban Environmental Sci., Tokyo Metropolitan Univ.) KUTTASSERY, Fazalurahman; SAGAWA, Shogo; MATHEW, Siby; YAMAMOTO, Daisuke; ONUKI, Satomi; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo
- 11:00–11:10 **1B1-13** Synthesis and spectroscopic studies of Aluminum porphyrins (Urban Environmental Sci., Tokyo Metropolitan Univ.) MATHEW, Siby; KUTTASSERY, Fazalurahman; ONUKI, Satomi; YAMAMOTO, Daisuke; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo

March 28th (FRI)

- 10:10–10:30 **2B1-08** Copper-Catalyzed Intramolecular Oxidative C(sp³)-H and C(sp²)-H Amidation (Grad. Sch. Pharm., The Univ. of Tokyo; The Univ. of Tokyo ERATO-JST) WANG, Zhen; KUNINOBU, Yoichiro; KANAI, Motomu
- 13:50–14:10 **2B1-30** Aryl C-Glycoside Synthesis Based on Iron-Catalyzed Cross-Coupling Reaction of Arylzinc Reagents (Grad. Sch. Eng., Kyoto Univ.; ICR, Kyoto Univ.) ADAK, Laksmikanta; KAWAMURA, Shintaro; TOMA, Gabriel; LI, Ho Chuen; TAKENAKA, Toshio; ISOZAKI, Katsuhiko; TAKAYA, Hikaru; SHING, Tony K. M.; NAKAMURA, Masaharu

- 14:10–14:30 **2B1-32** Iron-Catalyzed Directed Coupling of C(sp²)-H Bond with Organoboron Compounds (Grad. Sch. Sci., The Univ. of Tokyo) SHANG, Rui; ILIES, Laurean; NAKAMURA, Eiichi
15:20–15:30 **2B1-39** Iron-Catalyzed Suzuki-Miyaura Cross-Coupling between Alkyl Halides and Alkynylborate Reagents (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) NAKAGAWA, Naohisa; HATAKEYAMA, Takuji; NAKAMURA, Masaharu

March 29th (SAT)

- 9:10–9:30 **3B1-02** Development of Catalytic Allylation Reactions Using Zinc Amides (Grad. Sch. Sci., The Univ. of Tokyo) YAMASHITA, Yasuhiro; CUI, Yi; KOBAYASHI, Shu
9:40–9:50 **3B1-05** Tunable Zinc Amide-catalyzed Reactions: Selective Synthesis of Allenylic and Propargylic Alcohols (Grad. Sch. Sci., The Univ. of Tokyo) XIE, Peizhong; CUI, Yi; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

March 30th (SUN)

- 9:20–9:40 **4B1-03** Co-Catalyzed Cross-Coupling of Alkyl Halides with Tertiary Alkyl Grignard Reagents Using a 1,3-Butadiene Additive (Grad. Sch. Eng., Osaka Univ.; CSIR – Indian Institute of Chemical Technology Inorganic and Physical Chemistry Division) IWASAKI, Takanori; TAKAGAWA, Hiroaki; SINGH, Surya p.; KUNYASU, Hitoshi; KAMBE, Nobuaki
9:40–10:00 **4B1-05** Cobalt-Catalyzed C4-Selective Alkylation of Pyridines and Quinolines (Grad. Sch. Pharm., The Univ. of Tokyo) YAMAMOTO, Shohei; SAGA, Yutaka; ANDOU, Takashi; MATSUNAGA, Shigeki; KANAI, Motomu
10:40–11:00 **4B1-11** Nickel-Catalyzed C-H/C-O Biaryl Coupling: Catalyst Development and Mechanistic Study (Grad. Sch. Sci., Nagoya Univ.; Nagoya Univ. WPI-ITbM; ERATO, JST) MUTO, Kei; YAMAGUCHI, Junichiro; ITAMI, Kenichiro
11:00–11:10 **4B1-13** Ni-Catalyzed Direct Coupling of Carbonyls and Phenol Derivatives (Grad. Sch. Sci., Nagoya Univ.; Nagoya Univ. WPI-ITbM; ERATO, JST) TAKISE, Ryosuke; MUTO, Kei; YAMAGUCHI, Junichiro; ITAMI, Kenichiro

Room B3 (E&S Building, ES021)

March 27th (THU)

- 9:50–10:00 **1B3-06** Endo-Mode Ring Closing Metathesis in Cp Manganese Complex (Grad. Sch. Sci., Osaka Pref. Univ.; CRC, Hokkaido Univ.) TSENG, Ya-yi; KAMIKAWA, Ken; TAKAHASHI, Tamotsu; OGASAWARA, Masamichi
10:10–10:30 **1B3-08** Catalytic Enantioselective Synthesis of Planar-Chiral (π -Arene)chromium Complexes by Mo-Catalyzed Ring-Closing Metathesis (CRC, Hokkaido Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) WU, Wei-yi; TSENG, Ya-yi; ARAE, Sachie; NAKAMURA, Chihiro; MORITA, Tomotaka; TAKAHASHI, Tamotsu; OGASAWARA, Masamichi; KAMIKAWA, Ken
17:40–18:00 **1B3-53** Syntheses and Reactivities of Hydrido Carbonyl Ruthenium Complexes Bearing Various Triarylphosphines (Fac. Sci. Tech., Keio Univ.) OGIWARA, Yohei; KOCHI, Takuya; KAKIUCHI, Fumitoshi

March 28th (FRI)

- 9:30–9:40 **2B3-04** Nanoporous gold as a highly active catalyst for aerobic oxidation of hydroxylamines into nitrones (Grad. Sch. Sci., Tohoku Univ.) KUSUMA, Indra; YUDHA, Salprima; ASAO, Naoki
11:50–12:20 **2B3-18** Development of Cobalt-Catalyzed C-H Bond Functionalization Reactions (Nanyang Tech. Univ.) YOSHIKAI, Naohiko

March 29th (SAT)

- 11:00–11:10 **3B3-13** Three-component Reaction of Esters with Silyl Cyanide and Ketene Silyl Acetals Catalyzed by Gallium Trihalides (Grad. Sch. Eng., Osaka Univ.) INAMOTO, Yoshihiro; KAGA, Yuta; NISHIMOTO, Yoshihiro; YASUDA, Makoto; BABA, Akio
13:50–14:00 **3B3-30** Rh(I)-Catalyzed Arylate Double-Carbonylation of Alkynes with Arylboronic Acids Using Formaldehyde as a CO Source (Grad. Sch. Mat. Sci., NAIST) MORIMOTO, Tsumoru; WANG, Chuang; KAKIUCHI, Kiyomi; ARTOK, Levent

March 30th (SUN)

- 10:30–10:50 **4B3-10** Scandium-Catalyzed Enantioselective C-H Alkylation of Pyridines (RIKEN Organometallic Chemistry Lab) SONG, Guoyong; HOU, Zhaomin

Room B4 (E&S Building, ES022)

March 27th (THU)

- 9:00–9:20 **1B4-01** Palladium-catalyzed One-shot Aromatic π -Extension of Polycyclic Aromatic Hydrocarbons (Grad. Sch. Sci., Nagoya Univ.; Nagoya Univ. WPI-ITbM; ERATO, JST) OZAKI, Kyohei; KAWASUMI, Katsuaki; ITO, Hideto; ITAMI, Kenichiro
9:40–10:00 **1B4-05** Synthesis of Cyclic Compounds by Cycloisomerization of Various 1,n-Dienes via Chain Walking (Fac. Sci. Tech., Keio Univ.) HAMASAKI, Taro; KAKIUCHI, Fumitoshi; KOCHI, Takuya
11:30–11:50 **1B4-16** Palladium-Catalyzed Regioselective C-H Fluorosilylation of 2-Phenylpyridines: Synthesis of Silafluorene Equivalents (Grad. Sch. Pharm., The Univ. of Tokyo; The Univ. of Tokyo ERATO-JST) XIAO, Qing; MENG, Xiangtai; KANAI, Motomu; KUNINOBU, Yoichiro
11:50–12:10 **1B4-18** Palladium-catalyzed Silylation and Germanylation of C(sp²)-H and C(sp³)-H Bonds (Grad. Sch. Pharm., The Univ. of Tokyo) KANYIVA, Stephen-kyalo; KUNINOBU, Yoichiro; KANAI, Motomu

March 28th (FRI)

- 10:50–11:00 **2B4-12** Synthesis of Triarylboranes via Iridium-Catalyzed C-H Borylation (Grad. Fac. Eng., Hokkaido Univ.) SASAKI, Ikuo; ISHIYAMA, Tatsuo; ITOU, Hajime
11:30–11:50 **2B4-16** Synthesis and Catalytic Function of Hydroxycyclopentadienyl Iridium Complex (Grad. Sch. Eng., The Univ. of Tokyo) KUSUMOTO, Shuhei; AKIYAMA, Midori; NOZAKI, Kyoko
13:30–13:50 **2B4-28** Modular Synthesis of Triarylmethanes through Palladium-Catalyzed Sequential Arylation of Methyl Phenyl Sulfone (WPI-ITbM, Nagoya Univ.) NAMBO, Masakazu; CRUDDEN, Cathleen M.
14:10–14:20 **2B4-32** Synthetic Applications of α -(Acylamino)alkylboronic Esters: Control of Stereochemical Course

in Catalytic Construction of Stereogenic Carbon Centers (Grad. Sch. Eng., Kyoto Univ.) OHMURA, Toshimichi; MIWA, Kyoko; SUGINOME, Michinori

17:00–17:10 **2B4-49** Synthesis of Methoxy-Substituted Picones and Effects of Their Position on Single Crystal Structures (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Aichi Univ. of Educ. Dept. of Chem.; JST ACT-C) CHEN, Xi-chao; CHANG, Ning-hui; MORI, Hiroki; NAKAJIMA, Kiyohiko; NISHIHARA, Yasushi

March 29th (SAT)

9:20–9:30 **3B4-03** An Improvement of Palladium Catalyst for the [4+2] Cycloaddition of *o*-(Silylmethyl)benzyl Carbonate with Alkenes (Fac. Sci., Kyushu Univ.) JIN, Yushu; ISHIZUKA, Kentaro; KUWANNO, Ryoichi

12:00–12:20 **3B4-19** Quantification of steric influence in palladium/alkylphosphine-sulfonate catalysts (Grad. Sch. Eng., The Univ. of Tokyo) OTA, Yusuke; ITO, Shingo; NOZAKI, Kyoko

14:00–14:10 **3B4-31** Hydrothioalkylation of Electron-Deficient Alkenes by Photoredox Catalysis (Chem. Res. Lab., Tokyo Tech) LI, Yanjie; MIYAZAWA, Kazuki; KOIKE, Takashi; AKITA, Munetaka

15:50–16:00 **3B4-42** Utility of a Trimethylsilyl Group as an Equivalent of Hydroxyl Group: Synthesis of Alkanols via Iridium-Catalyzed C(sp³)-H Borylation (Grad. Sch. Eng., Kyoto Univ.) OHMURA, Toshimichi; TORIGOE, Takeru; SUGINOME, Michinori

March 30th (SUN)

9:00–9:10 **4B4-01** Pd-Catalyzed Cascade Crossover Annulation of *o*-Alkynylarylhalides and Diarylacetylenes Leading to Dibenzo[a,e]pentalenes (WPI-AIMR, Tohoku Univ.) ZHAO, Jian; ONIWA, Kazuaki; ASAO, Naoki; YAMAMOTO, Yoshinori; JIN, Tienan

9:30–9:40 **4B4-04** Enantioselective Palladium(II) Catalyzed Cyclization-Cycloaddition Cascade Reactions (ISIR, Osaka Univ.) ABOZEID, Mohamed; TAKIZAWA, Shinobu; SASAI, Hiroaki

12:00–12:10 **4B4-19** *PGeP*-Palladium Complex-Catalyzed Hydrocarboxylation of Allenes with Formate (Grad. Sch. Sci., Eng., Tokyo Tech) ZHU, Chuan; SASANO, Kota; TAKAYA, Jun; IWASAWA, Nobuharu

[Organic Chemistry -Reaction and Synthesis- Organic Electron Transfer Chemistry]

Room B2 (E&S Building, 103)

March 27th (THU)

15:30–15:40 **1B2-40** Reductive acylation of phenylacetylene derivatives accompanying with transposition of the triple bond (Nagaoka Univ. of Tech.) ZHANG, Tianyuan; TAKANO, Atsushi; NISHIYAMA, Yutaro; MAEKAWA, Hirofumi

March 28th (FRI)

11:20–11:40 **2B2-15** Fabrication of 3D Gradient Polymer Brush Based on Bipolar Electrochemistry (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) SHIDA, Naoki; FUCHIGAMI, Toshio; TOMITA, Ikuyoshi; INAGI, Shinsuke

[Organic Chemistry -Reaction and Synthesis- Organic Photochemistry]

Room A1 (School of Agricultural Sciences - Lecture Bldg. & Bldg. B, #7)

March 27th (THU)

11:40–12:00 **1A1-17** Synthesis and Photochemical Reactivity of Caged-compounds with Novel Stilbene-based Two-photon Chromophore (Grad. Sch. Sci., Hiroshima Univ.) BOINAPALLY, Srikanth; ABE, Manabu

[Organic Crystals]

Room H1 (Liberal Arts & Sciences Main Building, C30)

March 27th (THU)

15:50–16:10 **1H1-42** Hierarchical Crystal Design Based on Assembly Control of Chiral Hydrogen Bonded Supramolecular Modules by Halogen Bonds (Grad. Sch. Eng., Osaka Univ.) SASAKI, Toshiyuki; IDA, Yoko; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji

Poster Room (Gymnasium)

March 29th (SAT) 10:00–11:30

3PA-067 Search and Control of Polymorphism for β -Carboline Derivatives (CAI, Chiba Univ.) MASU, Hyuma; KITAZAWA, Masaru; NAKAGAMA, Tatsuro

[Physical Chemistry -Chemical Kinetics and Dynamics-]

Room D4 (School of Engineering - Bldg. 2, 232)

March 27th (THU)

14:10–14:20 **1D4-32** In operando ambient pressure X-ray photoelectron spectroscopy studies of oxidation reaction on Pt nanoparticles (IMS) WANG, Heng; TAKAGI, Yasumasa; UEMURA, Yohei; SEKIZAWA, Oki; URUGA, Tomoya; TADA, Mizuki; IWASAWA, Yasuhiro; YOKOYAMA, Toshihiko

14:20–14:30 **1D4-33** Electrochemical synthesis of carbon nanomaterials at room-temperature in ionic liquid (Grad. Sch. Sci., Hokkaido Univ.) KIM, Jeheon; YASUDA, Satoshi; MURAKOSHI, Kei

March 29th (SAT)

11:20–11:40 **3D4-15** Singlet Oxygen Generation and Photoionization of Singlet Oxygen Sensor Green (ISIR, Osaka Univ.) KIM, Sooyeon; FUJITSUKA, Mamoru; MAJIMA, Tetsuro

11:40–11:50 **3D4-17** Electron-Transfer Processes of Photoactive Host-Guest Complexes of Crown-Ether-Fused TTF with Li⁺@C₆₀ (Grad. Sch. Eng., Osaka Univ.; ALCA, JST) SUPUR, Mustafa

17:20–17:30 **3D4-51** Selective excitation of surface plasmon resonance modes in gold nanoparticles and probing their

dynamics by photoemission electron microscopy (RIES, Hokkaido Univ.) YU, Han; SUN, Quan; KUBO, Atsushi; MATSUO, Yasutaka; UENO, Kosei; MISAWA, Hiroaki

Poster Room (Gymnasium)

March 27th (THU) 10:00–11:30

1PA-073 Photon Antibunching Behavior of Single Quantum Dots Coupled to Gold Nanostructures (Sch. Sci. Tech., Kwansai Gakuin Univ.) MURTI, Damar; IDOMOTO, Keisuke; MASUO, Sadahiro

[Physical Chemistry -Properties-]

Room D3 (School of Engineering - Bldg. 2, 231)

March 28th (FRI)

15:40–15:50 **2D3-41** Characterization of Edge structure and Electronic Properties of Fully Flattened Carbon Nanotubes (Grad. Sch. Sci., Nagoya Univ.) WANG, Qing; KITAURA, Ryo; SHINOHARA, Hisanori

15:50–16:10 **2D3-42** Unravelling inter-wall interactions on optical transition in double-wall carbon nanotubes (Grad. Sch. Sci., Nagoya Univ.; IAE, Kyoto Univ.) ZHAO, Sihan; KITAGAWA, Tomoya; MIYAUCHI, Yuhei; MATSUDA, Kazunari; SHINOHARA, Hisanori; KITAURA, Ryo

March 29th (SAT)

11:50–12:10 **3D3-18** Plasmonic waveguiding remote Raman nanoscopy: Toward bio-nanosensing (KULeuven Department of Chemistry) UJI-I, Hiroshi

12:10–12:20 **3D3-20** Different Tg and Cp-minimum behaviors found between 1,2-propanediol and 1-amino-2-propanol (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) SHEN, Yunting; NAGOE, Atsushi; OGUNI, Masaharu; KAWAJI, Hitoshi; FUJIMORI, Yuki

Poster Room (Gymnasium)

March 27th (THU) 10:00–11:30

1PA-036 Effect of Polymer Matrix on Coherent Acoustic Phonon Dynamics of Gold Nanorods by Transient Absorption Spectroscopy (Sch. Sci. Tech., Kwansai Gakuin Univ.) WANG, Li; TAKEDA, Syouhei; TAMAI, Naoto

1PA-063 Effects of termination on multiexciton dynamics of Si quantum dots by femtosecond near-IR transient absorption spectroscopy (Sch. Sci. Tech., Kwansai Gakuin Univ.) CHEN, Dong; WANG, Li; SATO, Seiichi; YAO, Hiroshi; TAMAI, Naoto

[Physical Chemistry -Structure-]

Room D2 (School of Engineering - Bldg. 2, 222)

March 27th (THU)

16:30–16:40 **1D2-46** Tip-enhanced Raman spectroscopy of local nanostructures of graphene grown on SiC (Kwansai Gakuin Univ.) VANTASIN, Sanpon; SUZUKI, Toshiaki; KUTSUMA, Yasunori; ASHIDA, Koji; KANEKO, Tadaaki; OZAKI, Yukihiko

March 28th (FRI)

9:40–10:00 **2D2-05** Study of π hydrogen-bonded structure by 3-dimensional acceptor: IR spectroscopy of pyrrole binary clusters (Grad. Sch. Mat. Sci., Univ. of Hyogo) MATSUMOTO, Yoshiteru; MURAKAMI, Sunao; HONMA, Kenji; TSUZUKI, Seiji

14:00–14:10 **2D2-31** Microstructure Characterization of Porous PMMA Thin films with Multifocus Raman Microscopy (Fac. Sci., Gakushuin Univ.) SAMUEL, Ashok zachariah; YABUMOTO, Sohshi; KAWAMURA, Kenichi; IWATA, Koichi

14:10–14:30 **2D2-32** Raman Spectroscopic Investigations of Surfactant Gelation Induced by Aromatic Carboxylic Acids and Their Salts: A Molecular Perspective (Fac. Sci., Gakushuin Univ.) SAMUEL, Ashok zachariah; IWATA, Koichi

March 29th (SAT)

10:20–10:30 **3D2-09** A Study on the Interaction of a Cell Penetrating Peptide with Lipid Monolayers Using Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy (ASI, RIKEN) ADHIKARI, Aniruddha; NIHONYANAGI, Satoshi; YAMAGUCHI, Shoichi; TAHARA, Tahei

11:10–11:20 **3D2-14** Attempting Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy of a "Buried" Silica/Water Interface (ASI, RIKEN) MYALITSIN, Anton; NIHONYANAGI, Satoshi; YAMAGUCHI, Shoichi; TAHARA, Tahei

11:20–11:40 **3D2-15** Formation of worm-like micelle in mixed lecithin aqueous solutions (Grad. Sch. Marine Sci. and Technol., Tokyo Univ. of Marine Sci. and Technol.) MATSUKAWA, Shingo; FAFAUNGWITHAYAKUL, Natdanai

Poster Room (Gymnasium)

March 27th (THU) 10:00–11:30

1PA-014 Active site study on nitrogen doped graphite by edge-density controlled model catalyst (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) GUO, Donghui; AKIBA, Chisato; KAWARAI, Keiichi; KONDO, Takahiro; NAKAMURA, Junji

[Physical Organic Chemistry -Reaction Mechanism-]

Room A4 (School of Agricultural Sciences - Lecture Bldg. & Bldg. B, #1)

March 28th (FRI)

16:40–17:00 **2A4-47** Decoration of Porous Coordination Polymers with Nitroxyl Radicals for Selectively Catalytic

[Physical Organic Chemistry -Structures and Properties-]

Room A3 (School of Agricultural Sciences - Lecture Bldg. & Bldg. B, #5)

March 29th (SAT)

13:10–13:30 **3A3-26** Synthesis and Characterization of Rotaxanes Possessing Thermally Degradable Counteranions (Grad. Sch. Sci., Eng., Tokyo Tech) ZHU, Nan; ABE, Yoko; NAKAZONO, Kazuko; TAKATA, Toshikazu

14:20–14:40 **3A3-33** Novel cyclic amide oligomer containing pi-conjugated unit: Design and chiral characterization (Nagoya Inst. of Tech. Grad. School of Eng.) YAMAKADO, Ryohei; MATSUOKA, Sin-ichi; SUZUKI, Masato; TAKAGI, Koji; MASU, Hyuma; TAKEUCHI, Daisuke; AZUMAYA, Isao

March 30th (SUN)

10:10–10:30 **4A3-08** Conformational Analysis of Single Perfluoroalkyl Chains by Single-Molecule Real-Time Transmission Electron Microscopic Imaging (Grad. Sch. Sci., The Univ. of Tokyo; NTRC, AIST) HARANO, Koji; TAKENAGA, Shinya; OKADA, Satoshi; NIIMI, Yoshiko; YOSHIKAI, Naohiko; ISOBE, Hiroyuki; SUENAGA, Kazu; KATAURA, Hiromichi; KOSHINO, Masanori; NAKAMURA, Eiichi

Room A4 (School of Agricultural Sciences - Lecture Bldg. & Bldg. B, #1)

March 27th (THU)

11:20–11:40 **1A4-15** Environment-Responsive Fluorescent Probe Containing a Phosphole Oxide (Grad. Sch. Sci., Nagoya Univ.) YAMAGUCHI, Eriko; FUKAZAWA, Aiko; KOSAKA, Youhei; SATO, Yoshikatsu; SASAKI, Taeko; UEDA, Minako; SASAKI, Narie; HIGASHIYAMA, Tetsuya; YAMAGUCHI, Shigehiro

March 30th (SUN)

11:20–11:40 **4A4-15** Nonlinear Optical Effects related to Aromatic Polyimide Conformation (Grad. Sch. Sci., Eng., Tokyo Tech) SHIRATA, Kei; HATTORI, Masaya; MIYAWAKI, Ryouusuke; KAWAUCHI, Susumu

13:50–14:10 **4A4-30** Synthesis of diyne-labeled sphingomyelin and evaluation of its raft-like domain formation (Sch. Sci., Osaka Univ.) CUI, Jin; KINOSHITA, Masanao; MATSUOKA, Shigeru; SATO, Fuminori; ANDO, Jun; YAMAGOSHI, Hiroyuki; DODO, Koyuke; FUJITA, Katsumasa; SODEOKA, Mikio; MURATA, Michio

Room A5 (School of Agricultural Sciences - Lecture Bldg. & Bldg. B, #2)

March 27th (THU)

9:20–9:40 **1A5-03** Porous Molecular Networks on Graphene Formed by Self-Assembly of Dehydrobenzo[12]annulene Derivatives (Grad. Sch. Eng. Sci., Osaka Univ.; JST-PRESTO; KU Leuven-University of Leuven Department of Chemistry,) TAHARA, Kazukuni; LI, Bing; ADISOEJOSO, Jinne; VANDERLINDEN, Willem; DE GENDT, Stefan; DE FEYTER, Steven; TOBE, Yoshito

March 28th (FRI)

9:20–9:40 **2A5-03** Molecular recognition controlled by remote substituents on self-assembled hollow cages (Grad. Sch. Eng., The Univ. of Tokyo) FANG, Yu; MURASE, Takashi; FUJITA, Makoto

11:30–11:40 **2A5-16** Stable encapsulation of acrylate esters within networked capsules (Grad. Sch. Eng., The Univ. of Tokyo) NING, Guo-hong; INOKUMA, Yasuhide; FUJITA, Makoto

16:50–17:10 **2A5-48** Development of macrocyclic host molecules based on dynamic octadentate cyclen-metal complexes (Grad. Sch. Sci., Osaka City Univ.) ITO, Hiroshi; SHINODA, Satoshi

March 29th (SAT)

11:50–12:10 **3A5-18** Carbon nanorings as porous materials (ENCs, Shinshu Univ.) SAKAMOTO, Hirotoshi; FUJIMORI, Toshihiko; LI, Xiaolin; KANEKO, Katsumi

March 30th (SUN)

9:20–9:40 **4A5-03** Synthesis and properties of π - extended derivatives of sumanene (IMS) SHRESTHA, Binod babu; KARANJIT, Sangita; HIGASHIBAYASHI, Shuhei; SAKURAI, Hidehiro

10:40–10:50 **4A5-11** Synthesis and Properties of Hydroxysumanene (IMS) NGAMSOMPRASERT, Niti; HIGASHIBAYASHI, Shuhei; SAKURAI, Hidehiro; SHRESTHA, Binod babu

Room A6 (School of Agricultural Sciences - Lecture Bldg. & Bldg. B, #3)

March 27th (THU)

10:40–10:50 **1A6-11** Syntheses and properties of fluorenyl-based hydrocarbon radicals (Grad. Sch. Sci., Osaka Univ.) TIAN, Ti; KURATA, Hiroyuki; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi

March 28th (FRI)

10:20–10:40 **2A6-09** A Bis(2-hydroxyphenyl)pyrimidine-bridged Multiple Molecular Spur Gears: Synthesis and Dynamic Motions. (Chem. Res. Lab., Tokyo Tech) TSUCHIDO, Yoshitaka; SUZAKI, Yuji; OSAKADA, Kohtarō

16:20–16:40 **2A6-45** Supramolecular Corannulene Fiber (RIKEN CEMS) MIYAJIMA, Daigo; KANG, Jiheong; AIDA, Takuzo

March 29th (SAT)

9:10–9:30 **3A6-02** Synthesis of the [3]Rotaxanes Utilizing the Catalytic Activity of the Macrocyclic Phenanthroline-Cu Complex (Grad. Sch. Chem. Sci. Technol., Tokyo Univ. of Sci.) YAMASHITA, Yoshiaki; MUTOH, Yuichiro; YAMASAKI, Ryu; KASAMA, Takeshi; SAITO, Shinichi

17:00–17:20 **3A6-49** Extraction of Pd(II) ions with dimethyl(thiocarbamoyl) modified thiacalix[n]arenes (Fac. Eng. Resource Sci., Akita Univ.) MUNIYAPPAN, Rajiv gandhi; YAMADA, Manabu; KONDO, Yoshihiko; HAMADA, Fumio

March 30th (SUN)

14:50–15:10 **4A6-36** Self-Assembly of Boroxine Cages (Grad. Sch. Sci., Eng., Tokyo Tech; JST CREST) ONO, Kosuke; IWASAWA, Nobuharu

Room A7 (School of Agricultural Sciences - Lecture Bldg. & Bldg. B, #12)

March 27th (THU)

- 13:20–13:40 **1A7-27** Five-Fold Symmetric Penta-Bioconjugated Corannulenes: Synthesis, Properties and Applications (Tohoku Univ. Department of Chemistry and WPI-AIMR) MATTARELLA, Martin; SIEGEL, Jay
13:50–14:00 **1A7-30** Syntheses and Structural Characterization of Pyrene-Based Metal Complexes (Grad. Sch. Sci. Eng., Tokyo Metropolitan Univ.) LUONG, Xuan-dien; YAMASHITA, Ken-ichi; ASANO, Motoko; SUGIURA, Ken-ichi

March 29th (SAT)

- 18:00–18:20 **3A7-55** Two Terminal Wired Single Molecular Diodes of Porphyrin-Imide Connected to Single-Walled Carbon Nanotubes (Osaka Univ.) MURNI, Handayani; GODA, Shun; TANAKA, Hirofumi; TANAKA, Daisuke; KATAYOSE, Shinichi; OGAWA, Takuji

March 30th (SUN)

- 16:30–16:50 **4A7-46** Ion Conductivity of Multi-interactive TPHAP Derivatives Based on Their Assembled Structures (POSTECH) YAKIYAMA, Yumi; LEE, Gil-ryeong; MORITA, Yasushi; KAWANO, Masaki

Poster Room (Gymnasium)

March 27th (THU) 15:00–16:30

- 1PC-040** Synthesis and Structural Analysis of Disilanyl Double-Pillared Bisheteroarenes (MANA, NIMS) NAKANISHI, Waka; SHIMADA, Yusuke; ISOBE, Hiroyuki
1PC-046 Synthesis and Properties of Trans Doubly N-Confused Porphyrins and Their Metal Complexes (Grad. Sch. Eng., Kyushu Univ.) YAN, Jiaying; TAKAKUSAKI, Makoto; ISHIDA, Masatoshi; FURUTA, Hiroyuki
1PC-066 Flexible Pseudohelical BODIPY Derivative Showing Unusual On/Off Photoluminescence Response to Non-Polar/Polar Solvents (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) RICHARDS, Gary; GOBO, Yuki; NABESHIMA, Tatsuya

[Polymer]

Room C3 (School of Engineering - Bldg. 1, 132)

March 27th (THU)

- 14:40–15:00 **1C3-35** Pore Surface Functionalization of Covalent Organic Frameworks and the Impact on Gas Adsorption (SOKENDAI) HUANG, Ning; JIANG, Donglin
16:30–16:50 **1C3-46** Catalytic covalent organic frameworks via pore surface engineering (IMS) XU, Hong; JIANG, Donglin
17:10–17:20 **1C3-50** Synthesis and Helical Chirality Induction of Poly(quinoxaline-2,3-diyl)s Bearing a Boronic Ester Group on the Quinoxaline Ring (Grad. Sch. Eng., Kyoto Univ.) YAMAMOTO, Takeshi; MURAKAMI, Ryo; SUGINOME, Michinori
17:30–17:40 **1C3-52** Helix inversion of poly(quinoxaline-2,3-diyl)s depending on the molecular shape of alkane solvents (Grad. Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; NISHIKAWA, Tsuyoshi; SUGINOME, Michinori

March 28th (FRI)

- 14:20–14:40 **2C3-33** Towards Luminescence Covalent Organic Frameworks (IMS) CHEN, Xiong; NAGAI, Atsushi; JIANG, Donglin

March 29th (SAT)

- 9:00–9:20 **3C3-01** Light Scattering of Copolymers in Bulk (Grad. Sch. Sci. Tech., Keio Univ.) KOIKE, Kotaro; KOIKE, Yasuhiro
10:40–11:00 **3C3-11** An Azine-linked Covalent Organic Framework: A New Crystalline Material for H-bond driven fluorescence Detection of Trace Explosive (IMS) DALAPATI, Sasanka; NAGAI, Atsushi; JIANG, Donglin
17:10–17:30 **3C3-50** Design and Synthesis of n-Type Covalent Organic Frameworks (IMS Material) CHEN, Long; JIANG, Donglin; NAGAI, Atsushi
17:30–17:50 **3C3-52** Organic Porous Polymer Thin Films: Controlled Synthesis and Functional Design (IMS) GU, Cheng; JIANG, Donglin
17:50–18:10 **3C3-54** Photocatalysts based on Conjugated Microporous Polymers (IMS Substance molecular science research area) XU, Yanhong; JIANG, Donglin

March 30th (SUN)

- 9:00–9:20 **4C3-01** Exceptional Energy Storage by Organic Porous Polymers (IMS) FEI, Xu

Room C4 (School of Engineering - Bldg. 1, 133)

March 27th (THU)

- 14:50–15:10 **1C4-36** Preparation of functional material surfaces using clickable orthogonal agent (Grad. Sch. Sci., Eng., Tokyo Tech) CHEAWCHAN, Sumitra; UCHIDA, Satoshi; KOYAMA, Yasuhito; TAKATA, Toshikazu
15:10–15:20 **1C4-38** Synthesis of Highly Reactive Polymer Nitrile *N*-Oxide from *trans*- β -Nitrostyrene and its Application to Catalyst-free Click Reaction (Grad. Sch. Sci., Eng., Tokyo Tech) WANG, Chen-gang; KOYAMA, Yasuhito; UCHIDA, Satoshi; TAKATA, Toshikazu

March 29th (SAT)

- 16:30–16:50 **3C4-46** "Non-swellaable" hydrogels without mechanical hysteresis (Grad. Sch. Eng., The Univ. of Tokyo) KAMATA, Hiroyuki; CHUNG, Ung-il; SAKAI, Takamasa

Poster Room (Gymnasium)

March 28th (FRI) 15:00–16:30

- 2PC-085** Synthesis of poly(borosiloxane) by dehydrocoupling polymerization. (Sch. Mat. Sci., JAIST) PUNEET, Puhup; VEDARAJAN, Raman; MATSUMI, Noriyoshi
2PC-115 Synthesis of copolymers composed of isopropylacrylamide and ionic liquid units and their LCST behavior (Sch. Mat. Sci., JAIST) JAIN, Kamiya; VEDARAJAN, Raman; MATSUMI, Noriyoshi

[Theoretical Chemistry, Informatics Chemistry and Computational Chemistry]

Room E1 (School of Engineering - Bldg. 3 321)

March 28th (FRI)

13:50–14:00 **2E1-30** Ab-initio investigations on tantalum oxynitrides : novel materials for photocatalysis (Grad. Sch. Eng., The Univ. of Tokyo) KUBO, Ayako; GIORGI, Giacomo; YAMASHITA, Koichi

15:00–15:20 **2E1-37** Formation of Metal Atom Triangles Accompanies the Super-Reduction of Polyoxometalate (POM) Clusters (Grad. Sch. Sci., Nagoya Univ.) NISHIMOTO, Yoshio; YOKOGAWA, Daisuke; YOSHIKAWA, Hirofumi; AWAGA, Kunio; IRLE, Stephan



notes

[Resource, Next Generation Energy and Environment]

Room G6 (Liberal Arts & Sciences Main Building, S20)

March 29th (SAT)

- 13:10–14:00 **3G6-26** I²CNER : Powering the Future, Internationalizing Research (I²CNER, Kyushu Univ.)
SOFRONIS, Petros
14:00–14:10 **3G6-31** Incubation Time

[Frontiers in Development of New Materials]

Room H5 (Liberal Arts & Sciences Main Building, S30)

March 27th (THU)

- 15:10–15:50 **1H5-38** Development of Taste Sensing System (Fac. Sci. Tech., Keio Univ.) CITTERIO, Daniel;
SUZUKI, Koji

[Energy]

Poster Room (Gymnasium)

March 27th (THU)

- 15:00–16:30 **1PC-210** Block Copolymer-Mediated Transfer Printing of Nanostructures: Application in Solar Cells
(AIST Renewable Energy Research Center) MIZUNO, Hidenori; SAI, Hitoshi; MATSUBARA, Koji; KONDO,
Michio

[Resources, Environment, GSC]

Poster Room (Gymnasium)

March 27th (THU) 15:00–16:30

- 1PC-239** Boronic Acid-DMAP(O) Cooperative Catalysis for Dehydrative Condensation between Carboxylic Acids
and Amines (Grad. Sch. Eng., Nagoya Univ.) LU, Yanhui; ISHIHARA, Kazuaki
1PC-242 Optical properties of confeito-like Au nanoparticles and their applications (National University of Science
and Technology) UJIHARA, Masaki; IMAE, Toyoko

[Medical care, Health care]

Poster Room (Gymnasium)

March 27th (THU) 12:30–14:00

- 1PB-230** Rational design of spirocyclic rhodamine derivatives for multi-color cancer imaging (Grad. Sch. Med., The
Univ. of Tokyo; Grad. Sch. Pharm., The Univ. of Tokyo; JST Basic Research Program) IWATATE, Ryu john;
KAMIYA, Mako; URANO, Yasuteru
1PB-238 Design and synthesis of antimalarial agents with indoloquinolone cores (Grad. Sch. Nat. Sci. Technol.,
Okayama Univ.) WANG, Ning; LU, Wen-jie; HAYASHI, Ikuya; KAWAFUCHI, Hiroyuki; INOKUCHI,
Tsutomu
1PB-239 Network structures in polysaccharide gels and its effect on swallowing (Grad. Sch. Marine Sci. and Technol.,
Tokyo Univ. of Marine Sci. and Technol.) MATSUKAWA, Shingo; BRENNER, Tom; SHIMADA, Ryota

Asian International Symposium

[Inorganic Chemistry]

Room F1 (*Liberal Arts & Sciences Main Building, C13*)

March 29th (SAT)

Chair: KURODA, Kazuyuki

13:20–13:50 **3F1-27 Keynote Lecture** Multi-functionalized Mesoporous Silica Nanocatalysts for Biofuel Applications (National Taiwan University) Wu, Kevin Chia-Wen

13:50–14:10 **3F1-30 Invited Lecture** Zeolite Catalyst with the Location of Active Sites in the Pores Controlled (Tokyo Institute of technology) YOKOI, Toshiyuki

14:10–14:30 **3F1-32 Invited Lecture** A New Insight for 1D Chalcogens: Transformation of Non-Metals into Metals inside Carbon Nanotubes (Shinshu University) FUJIMORI, Toshihiko

Chair: YOKOI, Toshiyuki

14:40–15:10 **3F1-35 Keynote Lecture** Proving and Exploiting the Catalytic Functions of Hydrogen Spillover with Porous Model Catalysts Allowing Selective Diffusion of H₂ (Korea Advanced Institute of Science and Technology) Choi, Minkee

15:10–15:30 **3F1-38 Invited Lecture** Electron Microscopy for Characterisation of Porous Materials (Osaka Prefectural University) SAKAMOTO, Yasuhiro

15:30–15:50 **3F1-40 Invited Lecture** Materials Design of Layered Titanates and Silicates for Their Useful Applications (NIMS) IDE, Yusuke

Chair: IDE, Yusuke

16:00–16:20 **3F1-43 Invited Lecture** Hierarchically-Assembled Porous Ionic Crystals (University of Tokyo) UCHIDA, Sayaka

16:20–16:40 **3F1-45 Invited Lecture** Synthesis and Biological Applications of Self-Assembled Huge Molecules (Tohoku University) SATO, Sota

16:40–17:00 **3F1-47 Invited Lecture** Controlled Polymerization in Coordination Nanospaces (Kyoto University) UEMURA, Takashi

[Coordination Chemistry, Organometallic Chemistry]

Room F2 (*Liberal Arts & Sciences Main Building, C14*)

March 29th (SAT)

Chair: OHBA, Masaaki and Chang, Ho-Chol

13:00–13:30 **3F2-25 Keynote Lecture** Oxygen-Sensing Luminescent Porous Coordination Polymers (Sun Yat-Sen Univ., China) ZHANG, Jie-Peng

13:30–13:50 **3F2-28 Invited Lecture** Spatial Control of Coordination-Driven Assembly (Kyoto Univ.) FURUKAWA, Shuhei

13:50–14:10 **3F2-30 Invited Lecture** Liquid Crystalline Metallomacrocycles toward Soft Materials with Nanospaces (Nagoya Univ.) KAWANO, Shin-ichiro

Chair: MIYASAKA, Hitoshi

14:20–14:40 **3F2-33 Invited Lecture** Ionic Conduction in Porous Coordination Polymer (Kyushu Univ.) YAMADA, Teppei

14:40–15:00 **3F2-35 Invited Lecture** Coordination Programming of Functional Molecular Wires and Sheets (The Univ. of Tokyo) SAKAMOTO, Ryota

15:00–15:20 **3F2-37 Invited Lecture** Visualization of trace compounds using porous coordination complexes (The Univ. of Tokyo) INOKUMA, Yasuhide

Chair: Ueno, Takafumi and Murahashi, Tetsuro

15:30–15:50 **3F2-40 Invited Lecture** Programmed Hemoprotein Assemblies as a Bioelectronic Interface (Osaka Univ.) ONODA, Akira

15:50–16:10 **3F2-42 Invited Lecture** Creating Dendritic Structure with Potential Gradient (Tokyo Inst. of Tech.) ALBRECHT, Ken

16:10–16:40 **3F2-44 Keynote Lecture** Supramolecular Polymers and Vesicles Constructed by Orthogonal Self-Assembly (Nanjing Univ., China) WANG, Leyong

[Photochemistry]

Room A4 (*School of Agricultural Sciences - Lecture Bldg. & Bldg. B, #1*)

March 29th (SAT)

10:00–10:10 **3A4-07** Opening address (Osaka University) Majima, Tetsuro

Chair: Ohta, Nobuhiro

10:10–10:50 **3A4-08 Keynote Lecture** Studies of unimolecular photodissociation dynamics using synchrotron VUV ionization (NSRRC) Lee, Shih-Huang

Chair: Tamai, Naoto

- 11:10–11:30 **3A4-14 Invited Lecture** Functionalization of titanium oxide by metal complex modification and its application to energy and molecular transformations (Kyushu University) Shimakoshi, Hisashi
- 11:30–11:50 **3A4-16 Invited Lecture** Photoswitching of biological functions based on the photoisomerization of azobenzenes (Hokkaido University) Fukaminato, Tsuyoshi
Chair: Karatsu, Takashi
- 13:00–13:40 **3A4-25 Keynote Lecture** Optical gain in strongly quantum confined colloidal semiconductor nanostructures (National University of Singapore) Chan, Yin Thai
Chair: Arai, Tatsuo
- 14:00–14:40 **3A4-31 Invited Lecture** Developing Metal-Polycyclic-Aromatic-Hydrocarbons Into a New Class of Organometallic Emitters and Photosensitizers (National University of Singapore) Yip, John H. K.
Chair: Majima, Tetsuro
- 15:00–15:40 **3A4-37 Keynote Lecture** Eco-driven environmental remediation and H₂ generation based on photocatalytic and photoelectrocatalytic techniques (Shanghai Normal University) Li, Guisheng
- 15:40–16:00 **3A4-41 Invited Lecture** Design and application of TiO₂-based photofunctional materials (Osaka University) Kamegawa, Takashi
Chair: Yasuda, Masahide
- 16:20–16:40 **3A4-45 Invited Lecture** DNA scaffolded chromophore aggregates and their photochemical behavior (University of Hyogo) Nakamura, Mitsunobu
- 16:40–17:00 **3A4-47 Invited Lecture** Photosensitized damage of DNA and protein (Shizuoka University) Hirakawa, Kazutaka
- 17:00–17:20 **3A4-49 Invited Lecture** Thermoswitchable Emission and Coloration of a Composite Material Containing a Luminescent Lanthanide(III) Complex and Fluoran Dye (Chiba University) Nakamura, Kazuki
- 17:20–17:30 **3A4-51** Closing address (National University of Singapore) Yip, John H. K.

[Analytical Chemistry]

Room E2 (School of Engineering - Bldg. 3, 331)

March 28th (FRI)

Chair: Citterio, Daniel

- 13:30–14:00 **2E2-28 Keynote Lecture** A Novel Rapid Antibiotic Susceptibility Test (RAST) System Using Microfabrication and Morphology of Single Cell Growth (Seoul National University) Kwon, Sunghoon
- 14:00–14:30 **2E2-31 Invited Lecture** Micro/nano droplet operations for chemical analysis (Tokyo Institute of Technology) HIBARA, Akihide
- 14:30–15:00 **2E2-34 Invited Lecture** With paper and inkjet printers to microfluidic analytical devices (Keio University) CITTERIO, Daniel
- 15:00–15:30 **2E2-37 Invited Lecture** Simple and rapid sensing of surface antigen based on dielectrophoresis (University of Hyogo) YASUKAWA, Tomoyuki
- 15:40–16:10 **2E2-41 Keynote Lecture** Biomedical applications of a novel class of high-affinity peptides (aptides) (KAIST) Jon, Sangyong
- 16:10–16:40 **2E2-44 Invited Lecture** Development of bioanalytical techniques by nano-fabricated structures (Nagoya University) KAJI, Noritada
- 16:40–17:10 **2E2-47 Invited Lecture** Imaging of dynamic molecules and signaling in living cells (University of Tokyo) OZAWA, Takeaki

[Colloid and Surface Chemistry]

Room C5 (School of Engineering - Bldg. 1, 142)

March 28th (FRI)

Chair: Deguchi, Shigeru

- 13:10–13:40 **2C5-26 Keynote Lecture** Self-Assembled Fullerene Nanostructures: From Zero to Higher Dimensions (NIMS) Shrestha, Lok Kumar
- 13:40–14:00 **2C5-29 Invited Lecture** Nanohybrid materials formed with hydrophobized inorganic nanoparticles for practical applications (Hiroshima University) Katagiri, Kiyofumi
Chair: Haga, Masa-aki
- 14:00–14:20 **2C5-31 Invited Lecture** In vivo Electrochemical Biosensors Based on Coordination Polymers (Chinese Academy of Sciences) Yang, Lifan
- 14:20–14:40 **2C5-33 Invited Lecture** Patterning on a 2D crystal sheet composed of silver nanoparticles using AFM local oxidation nanolithography (Kyushu University) Wang, Pangpang; Okamoto, Koichi; Tamada, Kaoru
- 14:40–15:00 **2C5-35 Invited Lecture** Advanced non-fluorinated coating materials with anti-fingerprint property on solid surfaces (National Taiwan University of Science and Technology) Siriviryanun, Ampornphan
Chair: Akitaya, Tatsuo
- 15:10–15:30 **2C5-38 Invited Lecture** DNA-assisted templating of inorganic nanomaterials (Nagoya University) Zinchenko, Anatoly
- 15:30–15:50 **2C5-40 Invited Lecture** Tailor-made lipid membrane engineering: Soft nanotubes formation controlled by external field (Kyoto University) Sasaki, Yoshihiro

Chair: Kaneko, Yukihiro

- 15:50–16:10 **2C5-42 Invited Lecture** Friction properties of polymer hydrogels studied by the resonance shear measurement (Tohoku University) Ren, Huai-Yin
16:10–16:30 **2C5-44 Invited Lecture** Condensed film formation of cationic surfactant at the air-water and oil-water interfaces and its application to foam and emulsion stability (Kyushu University) O Matsubara, Hiroki; Ohtomi, Eisuke; Tokiwa, Yuhei; Takiue, Takanori; Aratono, Makoto

Chair: Kanoh, Hirofumi

- 16:30–16:50 **2C5-46 Invited Lecture** Functional Nanomaterials Derived from Layered Transition Metal Hydroxides (NIMS) Ma, Renzhi
16:50–17:10 **2C5-48 Invited Lecture** Characterization of Alkyl-Side-Chain Polymer Film and its Use for Release Coatings (LION CORP.) Kabashima, Shin-ichiro
17:10–17:30 **2C5-50 Invited Lecture** Hybrid White Light Emitting Diode Based on Silicon Nanocrystals (NIMS) Ghosh, Batu

[Materials Chemistry for Advanced Nanotechnology]

Room E4 (School of Engineering - Bldg. 3, 333)

March 29th (SAT)

Chair: TERANISHI, Toshiharu

- 14:00–14:30 **3E4-31 Keynote Lecture** Water desalting/purification by signal-sensitive osmotic control (Seoul National University) LEE, Yan
14:30–14:50 **3E4-34 Invited Lecture** Liquid Crystalline Polymer and Block Copolymer Domain Aligned by Free Surface Segregation (Nagoya University) FUKUHARA, Kei
14:50–15:10 **3E4-36 Invited Lecture** Photoresponsive surface-grafted liquid crystalline polymer films (Nagoya University) HAQUE, Hafiz Ashraf

Chair: SEKI, Takahiro

- 15:10–15:30 **3E4-38 Invited Lecture** Fabrication of doped Cu-TCNQ nanocrystals and their optical properties (Tohoku University) ONODERA, Tsunenobu
15:30–16:00 **3E4-40 Keynote Lecture** Light-responsive azobenzene-containing metal complexes and their self-assembly (Nagoya University) HAN, Mina
16:00–16:20 **3E4-43 Invited Lecture** Preparation and Properties of New-type Polymer Electrolytes of High Performance for Lithium Ion Batteries (Fudan University, China) ZHU, Yu Song

Chair: YAMAMOTO, Kimihisa

- 16:20–16:40 **3E4-45 Invited Lecture** Atomic-level precise fabrication of ultra-small oxide dots to address nanoscale phenomena (NIMS) SATOH, Norifusa
16:40–17:00 **3E4-47 Invited Lecture** Anisotropic Exchange-coupled $L1_0$ -FePd/ α -Fe Isolated Nanoparticles toward High Maximum Energy Product Nanocomposite Magnets (Kyoto University) TRINH, Thang Thuy
17:00–17:20 **3E4-49 Invited Lecture** Co-doped Mn_3O_4 Nanoparticles as an Efficient and Stable Cocatalyst for Photocatalytic and Photoelectrochemical Water Oxidation (Tsukuba University) YOSHINAGA, Taizo

[Theoretical Chemistry, Chemoinformatics, Computational Chemistry]

Room E1 (School of Engineering - Bldg. 3, 321)

March 29th (SAT)

- 13:20–13:30 **3E1-27** Opening remarks

Chair: Koga, Nobuaki

- 13:30–14:00 **3E1-28 Keynote Lecture** Hypervalent and Planar Tetravalent Carbon in CC Bond Metathesis (CSIR-National Institute for Interdisciplinary Science and Technology) Suresh, Cherumuttathu H.
14:00–14:20 **3E1-31 Invited Lecture** Theoretical study of highly stereoselective Mukaiyama-Aldol reaction in aqueous media (Kyoto University) HATANAKA, Miho
14:20–14:40 **3E1-33 Invited Lecture** Computational Chemistry as a Valuable Tool in Alternative Energy Research: Biofuel (El-Menoufia University) El-Nahas, Ahmed

Chair: Yasuda, Koji

- 14:50–15:10 **3E1-36 Invited Lecture** QM-based Data Chemistry: Chemoinformatics Meets Quantum Chemistry (National Institute of Informatics) SATOH, Hiroko
15:10–15:30 **3E1-38 Invited Lecture** Theoretical study of solution chemistry based on integral equation theories (Nagoya University) YOKOGAWA, Daisuke
15:30–15:50 **3E1-40 Invited Lecture** Molecular Recognition in Biomolecules Studied by Statistical-Mechanics of Liquids (Kyushu University) YOSHIDA, Norio

Chair: Iuchi, Satoru

- 16:00–16:30 **3E1-43 Keynote Lecture** A Simple Theory for the Not So Simple Hofmeister Series (Peking University) Gao, Yiqin
16:30–16:50 **3E1-46 Invited Lecture** Replica-permutation method to realize efficient conformational sampling for biomolecules (Institute for Molecular Science) ITOH, Satoru G.
16:50–17:10 **3E1-48 Invited Lecture** Statistical analysis of protein structural dynamics with ensemble molecular dynamics simulation (Nagoya University) TAKAYANAGI, Masayoshi

Special Lectures

Room S8 (Law & Economics Shared Facilities Bldg., #3)

March 28th (FRI)

10:00–10:50 **2S8-01** Visible light photoredox catalysis as key step for organic synthesis (Univ. Regensburg) OLIVER, Reiser

11:00–11:50 **2S8-02** Photosynthetic membrane architecture investigated by mass spectrometric analysis (Washington Univ. in St. Louis) ROBERT, E. Blankenship

Special Sessions

□ Challenge for Reconstitution of Biosynthetic Machinery of Bioactive Natural Products

Room S5 (Law & Economics Shared Facilities Bldg., #1)

March 30th (SUN)

13:55–14:25 **4S5-03** Exciting New Enzymes From Fungal Biosynthetic Pathways (Univ. of California, Los Angeles) YI, Tang

14:45–15:15 **4S5-05** Semi-synthetic artemisinin: Using synthetic biology to increase the supply of a crucial antimalarial drug (Amyris, Inc.) MICHAEL, Leavell

□ The evolution of Organocatalysts

Room S6 (Law & Economics Shared Facilities Bldg., #2)

March 27th (THU)

15:50–16:30 **1S6-14** Photochemical Organocatalytic Reactions (ICIQ, Institute of Chemical Research of Catalonia, Spain) MELCHIORRE, Paolo



notes

Open Sessions

□ Nakanishi Symposium 2014

Organized by: Nakanishi Symposium Organizing Committee
Co-organized by: Chemical Society of Japan, Division of
Natural Products Chemistry & Biological Science

Date: March 27th (THU) 13:30–17:30

Venue: Room S5 (Law & Economics Shared Facilities Bldg. 1F, #2)

■ 13:30–14:00 *Award Ceremony of the Nakanishi Prize 2014*

Chair: Prof. Kazuo Tachibana (The University of Tokyo)

Nakanishi Prize 2014 Awardee: Prof. Jerrold Meinwald (Cornell University)

■ 14:00–17:00 *Nakanishi Symposium*

Chair: Prof. Michio Murata (Osaka University)

14:00– “Chemistry and Biology of Nyctinastic Plant Movement”

Prof. Minoru Ueda (Tohoku University)

14:35– “Toward an Ideal Synthesis of Bioactive Molecules through Direct Arene Assembling”

Prof. Jun’ichiro Yamagushi (Nagoya University)

Chair: Prof. Minoru Ueda (Tohoku University)

15:10– “Exploration of New Juvenile Hormone of Heteropteran Insects”

Prof. Tetsuro Shinada (Osaka City University)

15:45– “Chemical Ecology of Insect-Plant Interactions?– Ecological Roles of Phytochemicals”

Prof. Ritsuo Nishida (Kyoto University)

Chair: Prof. Kazuo Tachibana (The University of Tokyo)

16:20–17:30 Award Lecture “Exploring the Chemistry of Biotic Interactions”

Prof. Jerrold Meinwald (Cornell University)

□ The Editor-in-Chief & Researchers' Forum

The current situation and prospects for strengthening the global visibility of CSJ Journals

Organized by: CSJ
Collaborated by: Thomson Reuters

Date: March 28th (FRI) 09:30–11:10

Venue: Room S6 (Law & Economics Shared Facilities Bldg. 1F, #2)

09:00– Opening Remarks/Chair : Yoshiki Chujo (Kyoto University)

09:10– 1st Session: Lecture (15min. × 4)

- 1) Norihiro Tokitoh (BCSJ Editor-in-Chief)
- 2) Peter Gölitz (Angewandte Chemie Editor-in-chief)
- 3) Kazuyuki Kuroda (Waseda University)
- 4) Katsuhiko Ariga (National Institute for Materials Science)

10:10– 2nd Session: Panel Discussion (60min.)

Moderator: Katsuhiko Ariga (National Institute for Materials Science)

Panelists: • Peter Gölitz (Angewandte Chemie Editor-in-chief)

- Norihiro Tokitoh (BCSJ Editor-in-Chief)
- Mitsuhiko Shionoya (CL Editor-in-Chief)
- Kazuyuki Kuroda (Waseda University)
- Takashi Kato (The University of Tokyo)
- Kaoru Hatano (Thomson Reuters)

□ The Chemical Record Lecture 2014

Organized by: CSJ & Wiley-VCH

Date: March 28th (FRI) 15:30–16:20

Venue: Room S6 (Law & Economics Shared Facilities Bldg. 1F, #2)

15:30– Exploring Chemoselectivity through Natural Product Total Synthesis

Prof. Scott A. Snyder (The Scripps Research Institute)

Chair: Prof. Masayuki Inoue (The University of Tokyo)

□ Japan-US Joint Symposium on Advanced Organo-Main Group Chemistry

Organized by: CSJ

Co-organized by: ACS

Grant-in-Aid for Scientific Research on Innovative Areas

"Stimuli-responsive Chemical Species for the Creation of Functional Molecules"

Date: March 29th (SAT) 09:00–12:10

Venue: Room S5 (Law & Economics Shared Facilities Bldg. 1F, #1)

09:00– Remarks

Prof. Shigehiro Yamaguchi

09:05– Opening Address

President of ACS, Prof. Thomas J. Barton

Chair: Associate Professor Makoto Yamashita (Chuo University)

09:10– "Isolable Alkyl-substituted Low-coordinate Species of Heavy Main Group Elements"

Prof. Takeaki Iwamoto (Tohoku University)

09:30– "Silylene Transfer Reactions as New Methods for Stereoselective Synthesis"

Prof. Keith Woerpel (New York University)

Chair: Prof. Yousuke Yamamoto (Hiroshima University)

10:10– "Some Interesting Perspectives of Base-stabilized Silylenes"

Chercheurs CNRS Tsuyoshi Kato (Université de Toulouse)

10:30– "The Structure of Excitons and Polarons in Oligosilanes: Five Hybrid Orbitals on a Silicon Atom"

Prof. Josef Michl (University of Colorado Boulder)

Chair: Prof. Akira Sekiguchi (University of Tsukuba)

11:10– "Organoelement Chemistry in Mechanistic Studies on Biological Reactions"

Prof. Kei Goto (Tokyo Institute of Technology)

11:30– "Stable Carbenes and Related Species: Powerful Tools in Organic, Inorganic and Organometallic Chemistry"

Prof. Guy Bertrand (University of California, San Diego)

12:00– Closing speech

President of CSJ, Prof. Kohei Tamao (RIKEN Advanced Science Institute)

□ For Future Leaders in Chemistry for Science, for Society and in the World !

— CSJ Gender Equality Symposium # 14 —

Organized by: Gender Equality Committee, CSJ

Co-sponsored by: Japan Inter-Society Liaison Association Committee

for Promoting Equal Participation of

Men and Women in Science and Engineering

Date: March 29th (SAT) 13:15–17:15

Venue: Room SA (Law & Economics Shared Facilities Bldg. 3F, #2)

13:15– *Opening Remarks*

Kohei Tamao (President, CSJ)

13:20– *Invited Lecture* "Partners for Progress and Prosperity: A Personal and Professional Journey"

Marinda Wu (2013 President, ACS)

Chair: Akira Harada (Vice President, CSJ)

14:00– *CSJ Award for Outstanding Young Women Chemists*

"Rational Design and Synthesis of Functional Porous Ionic Crystals"

Sayaka Uchida (The University of Tokyo)

"Creation of Functional Organic-Inorganic Hybrid Nanostructures"

Rie Makiura (Osaka Prefecture University)

14:30– *Keynote Lecture* "Activities of Women Chemists Recognized by IUPAC Distinguished Women in Chemistry or Chemical Engineering Award"

Kazue Kurihara (WPI-AIMR, Tohoku Univ.)

15:00– *Special Lecture 1* "Foundation of the Kuroda Chika Award - For Encouraging Female Researchers in Science"

Hiroshi Ogino (Professor emeritus, Tohoku Univ.)

15:30– *Break*

15:40– *Special Lecture 2* "Continue working throughout the life ~ Be free from hesitation~"

Chizu Sekine (Sumitomo Chemical Co., Ltd.)

16:10– *Special Lecture 3* "Efforts of Active Promotion of Diverse Human Resources"

Mihoko Inaba (Lion Corporation)

16:40– *Free Discussion*

17:10– *Closing Remarks*

Masako Kato (Director, CSJ)

17:30– *Mixer* (Nambu Kosei Kaikan)

□ Frontiers of Artificial Photosynthesis

JST PRESTO Project "Chemical Conversion of Light Energy"

Organized by: JST
Co-organized by: CSJ
Grant-in-Aid for Scientific Research on Innovative Areas
"All Nippon Artificial Photosynthesis Project for Living Earth"

Room S7 (Law & Economics Shared Facilities Bldg., Conference Hall)

March 27th (THU)

- 09:30–09:40 **1S7-01** Opening Remarks (Tokyo Metro. Univ.) INOUE, Haruo
09:40–10:10 **1S7-02** Activating solar energy functions in perovskite-type metal oxides (CALTECH) YAMAZAKI, Yoshihiro
10:10–10:40 **1S7-03** In situ characterization of photo energy conversion processes at solid/liquid interfaces (NIMS) NOGUCHI, Hidenori
10:40–11:10 **1S7-04** Metal Binding by Organic Dyes under Chemical and Photochemical Control (Inst. Mol. Sci.) MURAHASHI, Tetsuro
11:10–11:40 **1S7-05** Development of Light-energy and Molecular Material Conversion Catalysts Constructed inside a Cage-type Molecule (Osaka Univ.) FUNAHASHI, Yasuhiro
11:40–12:10 **1S7-06** Creation of highly efficient water-splitting photocatalysts through the control of surface band structure (Tokyo Inst.Tech.) MAEDA, Kazuhiko
13:20–14:10 **1S7-07** Artificial Photosynthesis-- Water Oxidation Is The Key (Royal Institute of Tech. (KTH) , Sweden) SUN, Licheng
14:10–14:40 **1S7-08** Development of highly efficient water oxidation catalysts using polyoxometalates (Hiroshima Univ.) SADAKAE, Masahiro
14:40–15:10 **1S7-09** Optical Trapping and Photochemical Reactions/Energy Conversion at a Plasmonic Nano-Antenna (Osaka City Univ.) TSUBOI, Yasuyuki
15:25–15:55 **1S7-10** Elucidation of regulatory mechanisms of photochemical reaction in photosynthesis to create stable molecular devices (Kyoto Univ.) IFUKU, Kentaro
15:55–16:25 **1S7-11** Elucidation of molecular mechanisms of highly efficient energy conversion and water oxidation by photosynthesis (Ehime Univ.) SUGIURA, Miwa
16:25–16:55 **1S7-12** Artificial metabolic processes powered by photosynthesis (Kanagawa Univ.) NAGASHIMA, Kenji V.P.
16:55–17:25 **1S7-13** Multimodal spectral microscope for understanding chloroplast activity and overall cellular physiology in oil-producing algae (Kyoto Univ.) KUMAZAKI, Shigeichi
17:25–17:55 **1S7-14** Super-resolution fluorescence microscopy of biomineralization in diatoms (Yamagata Univ.) HOTTA, Jun-ichi
17:55–18:00 **1S7-15** Closing Remarks (JST)

Poster Room (Gymnasium)

March 28th (FRI) 09:30–12:00

- 2PD-001** Novel Ruthenium-Peptide Complexes Designed Based on "Peptide Origami" for Photochemical CO₂ Reduction Catalysts (Kitasato Univ.) ISHIDA, Hitoshi
2PD-002 Protein Engineering for creation of algae with high formate productivity (Shinshu Univ.) IHARA, Masaki
2PD-003 Development of energy conversion materials with hierarchical structure using two-dimensional nanocrystals (Kyushu Univ.) IDA, Shintaro
2PD-004 Studies on biosynthesis of the active-site iron-complex from [Fe]-hydrogenase (Max Planck Inst.) SHIMA, Seigo
2PD-005 Studies on the oxygen-evolving reaction of Photosystem II complex by structural and chemical analyses (Osaka City Univ.) UMEMA, Yasufumi
2PD-006 Photocatalytic Reduction of Carbon Dioxide over Shape Controlled Titanium(IV) Oxide Nanoparticles and Nanocomposite Photocatalysts (Kyushu Inst. Tech.) OHNO, Teruhisa
2PD-007 Elucidation of complex light energy conversion processes using novel time-resolved infrared vibrational spectroscopy (Tokyo Inst.Tech.) ONDA, Ken
2PD-008 Construction of nanoparticle suprastructure toward the novel artificial photosynthesis (Kyoto Univ.) SAKAMOTO, Masanori
2PD-009 Development of chemical conversion of light energy using arylborane compounds (Hokkaido Univ.) SAKUDA, Eri
2PD-010 Selective CO₂ photoreduction conjugated with H₂O oxidation utilizing semiconductor/metal-complex hybrid photocatalyst (Toyota Central R&D Lab.) SATO, Syunsuke
2PD-011 Elucidation of the driving force of ultrafast electron transfer and its reaction field (Osaka Univ.) NAGASAWA, Yutaka
2PD-012 Photocatalytic conversion of CO₂ in water using layered double hydroxides for carbon-neutral energy innovation (Kyoto Univ.) TERAMURA, Kentaro
2PD-013 Elucidation of Structure and Function of Natural Pigments Bound to Photosynthetic Antenna from Brown Algae (Osaka City Univ.) FUJII, Ritsuko
2PD-014 Structural Changes of a Novel Microbial Rhodopsin Studied by Time-Resolved FTIR Spectroscopy (Inst. Mol. Sci.) FURUTANI, Yuji
2PD-015 Development of energy-storing systems utilizing photochemical hydride transfer reactions (Brookhaven Natl. Lab.) MATSUBARA, Yasuo
2PD-016 Development of New Photocatalysts for the Highly Efficient Reduction of Carbon Dioxide (Tokyo Inst.Tech.) MORIMOTO, Tatsuki
2PD-017 Behavior of photogenerated charge carriers and reactivities on conjugated photocatalysts (Toyota Tech.

- Inst.) YAMAKATA, Akira
- 2PD-018** Visualizing molecular structures in the course of light-energy conversion processes by means of time-resolved X-ray structural analysis (KEK) ADACHI, Shin-ichi
- 2PD-019** Development of Large Photofunctional Porphyrin Arrays (NAIST) ARATANI, Naoki
- 2PD-020** Development of Efficient Water Splitting Systems based on Two-Step Photoexcitation (Kyoto Univ.) ABE, Ryu
- 2PD-021** Development of a molecular catalyst for water oxidation toward a hydrogen-producing solar cell (Niigata Univ.) YAGI, Masayuki
- 2PD-022** Structural analysis of the electron transfer complexes toward in-depth understanding of the entire photosynthetic energy transduction (Osaka Univ.) KURISU, Genji
- 2PD-023** Precise design of 3d metal complexes: Attempt to develop non-precious metal catalysts (AIST) NAKAJIMA, Yumiko
- 2PD-024** Influence of the Ca_2^+ ion on the Mn4Ca conformation in Photosystem II (Osaka Univ.) ISHIKITA, Hiroshi
- 2PD-025** Functional Modulation of Photosynthetic Antenna Complex (LH2) Through Chemical Modification (Nagoya Inst.Tech.) DEWA, Takehisa



notes