

Detailed Program

Sunday, August 7, 2022

17:00-17:15 **Opening Ceremony (1F, Room 101)**

Plenary Session 1 & ACCC Award 1 (Functional Materials)

17:15-18:00 1F, Room 101

Chair Shie-Ming Peng

17:15-18:00 PL-01 From simple discrete metal-ligand motifs to supramolecular assembly, nanostructures and functions **Vivian Wing-Wah Yam**

18:00-20:00 **Welcome Reception (Hallway, 1F)**

Monday, August 8, 2022

Plenary Session 2 (Magnetic Materials)

08:40-09:25 1F, Room 101

Chair Masahiro Yamashita

08:40-09:25 PL-02 Switchable molecular materials based on valence tautomerism and spin crossover **Colette Boskovic**

Organometallic Chemistry

09:30-12:30 1F, Room 102

Chair Ching-Wen Chiu

09:30-10:00 KL-01 A Tetrahedral and High-Spin Ti^{II} Ion **Daniel J. Mindiola**

10:00-10:20 IL-01 Heterometallic Clusters with U-M Bonds Supported by Double-Layer N-P Ligands **Congqing Zhu**

10:20-10:40 IL-02 Si-Cl Bond Cleavage Induced by an Iron Complex Bearing a Phenanthroline-Based PNNP Ligand **Yumiko Nakajima**

10:40-11:00 Coffee Break, 1F Hallway

11:00-11:20 IL-03 Reversible CO₂ /CO conversion by a homogeneous copper-based molecular catalyst **Arnab Dutta**

11:20-11:40 IL-04 Highly Stereoselective Palladium-Catalyzed C-F Bond Functionalization of gem-Difluoroalkenes **Gavin Chit Tsui**

11:40-12:00 IL-05 Pd-Catalyzed Stereospecific Cross Coupling of Organoboron Compounds to Access Chiral α -Aryl Carbonyl Compounds **Hong Geun Lee**

12:00-12:30 KL-02 Recent Advance in the Chemistry of Low-Coordinate Low-Valent Transition-Metal Complexes **Liang Deng**

Supramolecular Chemistry

 09:30-10:40 1F, Room 103
Chair Norman Lu

 09:30-10:00 KL-04 Water-Soluble Molecular Architectures **Partha Sarathi Mukherjee**

 10:00-10:20 IL-11 Managing inequality: helical fluxionality of metallohelicate **Dongwhan Lee**

 10:20-10:40 IL-12 Confinement of unfolding and refolding proteins in an M12L24 coordination cage **Takahiro Nakama**

10:40-11:00 Coffee Break, 1F Hallway

 11:00-12:30 1F, Room 103
Chair Shih-Sheng Sun

 11:00-11:20 IL-13 Dynamics of Gold Rings and Boxes **John Yip**

 11:20-11:40 IL-14 Metallo-molecular containers with open/close functions based on [Co^{III}(saloph)] scaffolds **Shigehisa Akine**

 11:40-12:00 IL-15 Highly phosphorescent Pd(II) complexes with metal-metal-to-ligand charge-transfer excited states in fluid solutions **Wei Lu**

 12:00-12:30 KL-05 Non-coulombic ionic crystals created via metalloligand approach **Takumi Konno**
Metal Organic Frameworks

 09:30-12:30 2F, Room 201
Chair Biing-Chiau Tzeng

 09:30-10:00 KL-07 Metal-Organic Frameworks (MOFs)-Driven Carbon Neutral Society: Heterogeneous Catalysis, Membrane Separation, and Power Generation **Chia-Wen (Kevin) Wu**

 10:00-10:20 IL-21 Metal-organic cage assemblies for gel engineering **Shuhei Furukawa**

 10:20-10:40 IL-22 Ionic Metal–Organic Frameworks (iMOFs) Based Sequestration of Environmental Pollutants for Water Remediation **Sujit Kumar Ghosh**

10:40-11:00 Coffee Break, 1F Hallway

 11:00-11:20 IL-23 Rapid Structural Transformation and Functional Application of Defect Al-MOFs **Chia-Her Lin**

 11:20-11:40 IL-24 Stimuli-responsive Metal-organic Frameworks Showing Unique Molecular Adsorption and Conversion **Ryotaro Matsuda**

 11:40-12:00 IL-25 Coordination Polymers for Naked-Eye Multi-responsive Chromism and Luminescent Applications **Jaurusup Boonmak**

 12:00-12:30 KL-08 Microenvironment Modulation in Metal-Organic Framework-Based Catalysis **Hai-Long Jiang**

Functional Materials

09:30-12:30

2F, Room 202

Chair Jiann-Tsuen Lin

09:30-10:00	KL-10	Molecular functionalization as a powerful approach to Cu ₂ O photocatalytic activity enhancement	Michael Huang
10:00-10:20	IL-31	Helical Metal-Metal Interactions Boost Circularly Polarized Luminescence	Youngmin You
10:20-10:40	IL-32	Development of coordination compounds for electrochemical energy-storage devices	Masashi Okubo
10:40-11:00	Coffee Break, 1F Hallway		
11:00-11:20	IL-33	Lanthanide-Sensitized Optoelectronic Functions of Lead Halide Perovskites	Ayumi Ishii
11:20-11:40	IL-34	Functional Coordination Polymers Based on Redox-Active Tetrathiafulvalene and its Derivatives	Jing-Lin Zuo
11:40-12:00	IL-35	Porous Ionic Crystals Based On Polyoxometalates As A Tunable Platform For Functional Materials	Sayaka Uchida
12:00-12:30	KL-11	Progress in Phosphor Materials and Future Perspectives	Ru-Shi Liu

Organometallic Chemistry

14:00-16:30

1F, Room 102

Chair Lan-Chang Liang

14:00-14:30	KL-03	Rare-earth metal phosphinidene complexes: from dinuclear ones to mononuclear and terminal ones	Yaofeng Chen
14:30-14:50	IL-06	Cp*Rh(III)/chiral Lewis base hybrid catalysis for enantioselective C–H functionalization	Tatsuhiko Yoshino
14:50-15:10	IL-07	Catalytic enantioselective construction of Si-stereogenic silanes	Chuan He
15:10-15:30	IL-08	Dinuclear Cobalt Complexes for Electrochemical Water Oxidation: Tuning Rate and Overpotential Through the Redox Non-Innocent Ligand	Yu-Heng Wang
15:30-15:50	Coffee Break, 1F Hallway		
15:50-16:10	IL-09	Base-Promoted Perfluoroalkylation of Rhodium Porphyrin Complexes with Perfluoroalkyl Iodides	Ching Tat To
16:10-16:30	IL-10	Radical delocalization enables the stabilization of a high-spin threecoordinate Fe(III) imidyl complex	Chun-Yi Lin

Other Topics in Coordination Chemistry

14:00-15:30

1F, Room 103

Chair Minghuey Shieh

14:00-14:30 KL-06 Coordination Chemistry at the Crossroads **Andy Hor**

14:30-14:50 IL-16 Spin State Switching in Dynamic Molecular Materials **Sanjit Konar**

14:50-15:10 IL-17 Rational Design of Electrocatalyst for CO₂ Reduction **Abhishek Dey**

15:10-15:30 IL-18 Zinc-Salophen Complexes as New Building Blocks for Photovoltaic Applications **Hsien-Hsin Chou**

15:30-15:50 Coffee Break, 1F Hallway

Supramolecular Chemistry

15:50-16:30

1F, Room 103

Chair Yi-Tsu Chan

15:50-16:10 IL-19 Kinetic Effects of Catenane Ligands in Transition Metal Catalysis **Ho Yu Au-Yeung**

16:10-16:30 IL-20 Application of porphyrins in new generation solar cells **Chen-Yu Yeh**

Metal Organic Frameworks

14:00-16:30

2F, Room 201

Chair Jing-Yun Wu

14:00-14:30 KL-09 Postsynthetic modifications of metal–organic frameworks and their applications **Myoung Soo Lah**

14:30-14:50 IL-26 Metal-organic frameworks incorporating high-density acidic sites for effective ammonia capture **Chang Seop Hong**

14:50-15:10 IL-27 Electrically Conductive Metal-Organic Framework Nanosheets Created at Air/Liquid Interfaces **Rie Makiura**

15:10-15:30 IL-28 Metal–Organic Frameworks for Polymer Adsorption and Separation **Nobuhiko Hosono**

15:30-15:50 Coffee Break, 1F Hallway

15:50-16:10 IL-29 New organic-inorganic hybrid metal phosphates for food safety and environmental applications **Chih-Min Wang**

16:10-16:30 IL-30 Stimuli-responsive porous metal–organic crystals **Hiroshi Sato**

Catalysis, Energy and Small Molecule Activation

14:00-15:30

2F, Room 202

Chair Mizuki Tada

14:00-14:30	KL-12	Alkane hydroxylation catalyzed by late transition-metal complexes	Shinobu Itoh
14:30-14:50	IL-36	Water Oxidation with Metal Porphyrins	Rui Cao
14:50-15:10	IL-37	Potent Methane Oxidation Catalyst Achieved by Close Stacking of Double-Decker-Type Iron Phthalocyanine Complex on Graphite Surface	Yasuyuki Yamada
15:10-15:30	IL-38	Inorganic Nanocatalysts to Enhance Hydrogenation Reactions toward Sustainable Materials Transformations	Miho Yamauchi

15:30-15:50 Coffee Break, 1F Hallway

15:50-16:30

2F, Room 202

Chair Yu-Heng Wang

15:50-16:10	IL-39	Orange-red fluorescent polycyclic cinnolino[2,3-f]phenanthridin-9-ium salts by palladium(II)-catalyzed C—H bond activation	Shih-Ching Chuang
16:10-16:30	IL-40	Photocatalytic Water Splitting and CO ₂ Reduction	Ken Sakai

Rising Star Award (Magnetic Materials)

16:35-17:05

1F, Room 101

Chair Masahiro Yamashita

16:35-17:05		Spin Manipulation in Magnetic Molecules	Shang-Da Jiang
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Plenary Session 3 (Electronic Structures and Bonding of Metal Complexes)

17:05-17:50

1F, Room 101

Chair Andy Hor

17:05-17:50	PL-03	Non-innocence of coordinated ligands. Electronic structure and Reactivity	Goutam Kumar Lahiri
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Poster Session 1 (online)

18:00-20:00

online

Tuesday, August 9, 2022

**Plenary Session 4
(Bioinorganic Chemistry and Biomedical Diagnostics)**

08:40-09:25 1F, Room 101

Chair Ching-Wen Chiu

08:40-09:25 PL-04 Carbenium Ions as Z-type Ligands **François Gabbai**

Organometallic Chemistry

09:30-10:40 1F, Room 102

Chair Munetaka Akita

09:30-10:00 KL-13 Group 6 metal complexes featuring metal–germanium triple bonds: synthesis, reactivity, and catalysis **Hisako Hashimoto**

10:00-10:20 IL-41 Linear correlation between the equilibrium constant and half-wave potential of cobalt complexes in cobalt-mediated radical polymerization **Chi-How Peng**

10:20-10:40 IL-42 Vanadyl Complex-mediated Self-assembly and Radical Type Cross Coupling Reactions **Chien-Tien Chen**

10:40-11:00 Coffee Break, 1F Hallway

11:00-12:30 1F, Room 102

Chair Hsueh-Ju Liu

11:00-11:20 IL-43 Luminescent gold complexes that change structure upon mechanical stimulation **Hajime Ito**

11:20-11:40 IL-44 Mismatched donor-acceptor pairs: serendipitous structural and reaction chemistry **Lan-Chang Liang**

11:40-12:00 IL-45 Competence of Diborene Compounds in Small Molecules Activation and Catalytic Hydroboration **Cheuk-Wai So**

12:00-12:30 KL-14 Organometallic molecular switch driven by redox stimuli **Munetaka Akita**

Catalysis, Energy and Small Molecule Activation

09:30-10:40

1F, Room 103

Chair Takahiko Kojima

09:30-10:00	KL-16	Synthesis and Operando Characterization of Pt-Bimetallic Oxygen Reduction Catalysts for Polymer Electrolyte Fuel Cell	Mizuki Tada
10:00-10:20	IL-51	Development of metal halide perovskites and vanadium complexes for artificial photosynthesis and plastics upcycling	Han Sen Soo
10:20-10:40	IL-52	Tailoring the Photoluminescence of Atomically Precise Ligand Protected Metal Nanoclusters	Manzhou Zhu

10:40-11:00 Coffee Break, 1F Hallway

11:00-12:30

1F, Room 103

Chair Yunho Lee

11:00-11:20	IL-53	Molecular catalysts for photochemical and electrochemical conversions of ubiquitous small molecules	Shigeyuki Masaoka
11:20-11:40	IL-54	Uncoordinated Groups as Functional Units of Metal-Organic Frameworks	Wei Shi
11:40-12:00	IL-55	Molecular assembly at photocatalyst-mediator interface toward Z-scheme water splitting reaction	Atsushi Kobayashi

Functional Materials

12:00-12:30	KL-17	Photo-catalysis with Earth Abundant Metal Complexes. Excited State Dynamics and Application Studies	Chi-Ming Che
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Electronic Structures and Bonding of Metal Complexes

09:30-10:40

2F, Room 201

Chair Yi-Chou Tsai

09:30-10:00	KL-19	From Metal-Metal Multiple Bonds to Helical Metal Strings	Shie-Ming Peng
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Other Topics in Coordination Chemistry

10:00-10:20	IL-61	Dynamically Functional Palladium Chains Supported by Linear Tetrakisphosphines	Tomoaki Tanase
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Transition Metal

10:20-10:40	IL-62	T-type photochromism through generating copper(I) metallacyclopentadiene biradical	Zhong-Ning Chen (canceled)
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10:40-11:00 Coffee Break, 1F Hallway

Other Topic in Coordination Chemistry

11:00-12:30

2F, Room 201

Chair Yi-Chou Tsai

11:00-11:20	IL-63	Geometric and electronic structures characterization on Fe(II) complexes with the tridentate pyridine-tetrazolate ligand	I-Jui Hsu
11:20-11:40	IL-64	Bond analysis in "novel molecules" and their applications in chemistry	Lili Zhao
11:40-12:00	IL-65	Characteristic Features of Transition Metal Complexes Having Lewis Acidic Group 13 Element Ligand	Makoto Yamashita
12:00-12:30	KL-20	Hydride-Containing Copper- And Silver-Rich Nanoclusters	Chen-Wei Liu

Functional Materials

09:30-10:00

2F, Room 202

Chair Ming-Hsi Chiang

09:30-10:00	KL-22	Exploring quantum functions using triplets in MOFs	Nobuhiro Yanai
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Bioinorganic Chemistry and Biomedical Diagnostics

10:00-10:40

2F, Room 202

Chair Ming-Hsi Chiang

10:00-10:20	IL-71	Using Decoy Molecules to Manipulate P450BM3 Biotransformations	Osami Shoji
10:20-10:40	IL-72	Exploitation of Photofunctional Transition Metal Complexes in Bioorthogonal Labeling, Cellular Imaging, and Photocytotoxic Applications	Kenneth Kam-Wing Lo

10:40-11:00 Coffee Break, 1F Hallway

11:00-12:30

2F, Room 202

Chair Hua-Fen Hsu

11:00-11:20	IL-73	Molecular Mechanisms Controlling Formation and Reactivity of Oxoiron(IV) Porphyrin π -Cation Radical Complex	Hiroshi Fujii
11:20-11:40	IL-74	Lanthanide Porphyrin Phototheranostics	Jun-Long Zhang
11:40-12:00	IL-75	Conversion of Myoglobin into Artificial Metalloenzymes	Takashi Hayashi
12:00-12:30	KL-23	New Insights into the Platinum(IV) Prodrug Activation	Wee Han Ang

Metal Organic Frameworks

14:00-15:30

1F, Room 102

Chair Fa-Kuen Shieh

14:00-14:30	KL-15	MOF@MOF Architectures: Synthesis, Characterization & Application	Hoi Ri Moon
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14:30-14:50	IL-46	3D mixed-valence metal–organic frameworks and their structure-performance relationships for high-power electrochemical energy storage	Teng-Hao Chen
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14:50-15:10	IL-47	Open Coordination Chemistry in a Paddlewheel Metal-Organic Framework	Nak Cheon Jeong
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15:10-15:30	IL-48	Metal-organic framework nanospace as platform for selective photochemical reactions	Shinpei Kusaka
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15:30-15:50 Coffee Break, 1F Hallway

15:50-17:00

1F, Room 102

Chair Teng-Hao Chen

15:50-16:10	IL-49	Application of Porous Coordination Polymer Containing Aromatic Azo Linkers as Cathode Active Materials in Sodium-Ion Batteries	Hirofumi Yoshikawa
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16:10-16:30	IL-50	Influence of Framework Metal Ion of Analogous Coordination Polymers on the Adsorptive Removal and Photocatalytic Oxidative Degradation of Dyes	Jing-Yun Wu
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Oral Presentation (Metal Organic Frameworks and Organometallic Chemistry)

16:30-16:45	Oral-01	Precise Synthesis of Graphene Nanoribbons in Metal–Organic Frameworks	Takashi Kitao
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16:45-17:00	Oral-02	Reactions of NO and β -Diketiminato Ligands Supported Ru(I) Complexes	Chuan-Sheng Huang
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Supramolecular Chemistry

14:00-15:30 1F, Room 103

Chair Chen-Wei Liu

14:00-14:30 KL-18 2D Metallo-Supramolecular Arrays Assembled from Giant Cages **Yi-Tsu Chan**

14:30-14:50 IL-56 Fabrication of tunable hydrogel networks through metal-ligand coordination crosslinking **Yi-Cheun Yeh**

14:50-15:10 IL-57 Structure-property correlations of semiconducting Te/SeFe₃(CO)₉-dipyridyl Cu polymers **Minghuey Shieh**

15:10-15:30 IL-58 Electrically conductive metallocycle: densely packed molecular hexagons assembled by π -radicals **Hiroaki Iguchi**

15:30-15:50 Coffee Break, 1F Hallway

15:50-17:00 1F, Room 103

Chair Yi-Tsu Chan

15:50-16:10 IL-59 Capturing of fullerene with macrocyclic metal complexes **Kentaro Tanaka**

16:10-16:30 IL-60 Confined Electron Transfer within Metal-Organic Supramolecular Architectures for Sustainable Photocatalysis **Chunying Duan**

Oral Presentation (Supramolecular Chemistry)

16:30-16:45 Oral-03 Following and Controlling the Assembly of Paddlewheel-Based Cages **David Turner**

16:45-17:00 Oral-04 Structures and functions of hydrogen-bonded organic frameworks based on metal chlorido complexes bearing a bis(benzimidazol-2-yl)methane **Shun Ohta**

Magnetic Materials

14:00-15:30

2F, Room 201

Chair Hui-Lien-Tsai

14:00-14:30	KL-21	Molecular Spin Qubits for Quantum Computer and Highly Density Memory Devices Based on Molecular Magnets	Masahiro Yamashita
14:30-14:50	IL-66	Rigid Pyrimidyl Ligands to Construct of Low-Dimensional Magnetic Coordination Polymers	Chen-I Yang
14:50-15:10	IL-67	Development of stimuli-responsive metal complex	Yoshihiro Sekine
15:10-15:30	IL-68	Control of the Long-Range Magnetic Ordering via Gas Adsorption in a π -stacked Pillared Layer Framework	Wataru Kosaka

15:30-15:50 Coffee Break, 1F Hallway

15:50-17:00

2F, Room 201

Chair Chen-I Yang

15:50-16:10	IL-69	Heterometallic interaction emerges from resonant inelastic X-ray scattering in magnetic Gd-Pt molecules	Takefumi Yoshida
16:10-16:30	IL-70	Peculiar Magnetic Response and Negative Thermal Expansion of a Nickel Dithiolate Crystal	Kiyonori Takahashi

Oral Presentation (Magnetic Materials and Lanthanides and Actinides)

16:30-16:45	Oral-05	Electro-Conductive Single-Molecule Magnet Composed of a Phthalocyaninato Double-Decker Complex with Magnetoresistance	Tetsu Sato
16:45-17:00	Oral-06	Selective Crystallization of Dy^{3+} Complex from Nd^{3+}/Dy^{3+} Mixture Enabled by Cooperation of Coordination and Crystallization	Atsuko Masuya-Suzuki

Bioinorganic Chemistry and Biomedical Diagnostics

14:00-16:30

2F, Room 202

Chair	Way-Zen Lee		
14:00-14:30	KL-24	Electronic Structures and Reactivity of Iron(V)- Nitrido and -Oxo Complexes	Shengfa Ye
14:30-14:50	IL-76	Design and Directed Evolution of Noncanonical β -Stereoselective Metalloglycosidases	Woon Ju Song
14:50-15:10	IL-77	Design, synthesis, and biological evaluation of cyclometalated iridium(III) complex-peptide hybrids that induce paraptotic programmed cell death in cancer cells	Shin Aoki
15:10-15:30	IL-78	Bioinspired Approaches to Selective Catalytic Oxidations by Nonheme Iron Complexes	Tapan K. Paine
15:30-15:50	Coffee Break, 1F Hallway		
15:50-16:10	IL-79	Nitrogen Activation and Conversion by the Fe Sites of Biomimetic Mo-Fe-S Cubes	Yasuhiro Ohki
16:10-16:30	IL-80	Anticancer screening of N(3) ring substituted 3-acetylcoumarin thiosemicarbazones and their copper(II) complexes	Paras Nath Yadav

Oral Presentation (Bioinorganic Chemistry and Biomedical Diagnostics)

16:30-16:45	Oral-07	Metal-Mediated Stabilization and Structure Induction of DNA Three-Way Junction Motifs Modified with Bpy and Phen Ligands	Yusuke Takezawa
16:45-17:00	Oral-08	Bioinspired Co(NO) _x Complexes: Correlating Structure and NO-Transfer Reactivity towards Cysteine	Chien-Wei Chiang

Plenary Session 5 (Metal Organic Frameworks)

17:05-17:50

1F, Room 101

Chair	Yi-Tsu Chan		
17:05-17:50	PL-05	Metal-Organic Frameworks for Photo-/Electro-Catalytic CO ₂ Reduction	Xiao-Ming Chen

Poster Session 2 (online)

18:00-20:00

online

Wednesday, August 10, 2022

**Plenary Session 6
(Electronic Structures and Bonding of Metal Complexes)**

08:40-09:25

1F, Room 101

Chair David Harding

08:40-09:25 PL-06 Low-dimensional electrons system in coordination networks **Hiroshi Kitagawa**

Magnetic Materials

09:30-10:40

1F, Room 102

Chair Phan Van Hoa

09:30-10:00 KL-25 Tuneable ligand field leads to correlations with spin crossover $T_{1/2}$ and redox potential E_{pa} in Fe(II) helicates **Sally Brooker**

10:00-10:20 IL-81 Solvent and periphery ligand effects on structural and magnetic properties of Fe(III) spin crossover complexes **Phimphaka Harding**

10:20-10:40 IL-82 Phase Switchable Porous Magnets **Hitoshi Miyasaka**

10:40-11:00 Coffee Break, 1F Hallway

11:00-12:30

1F, Room 102

Chair Po-Heng Lin

11:00-11:20 IL-83 Ultrasmall Nano Particle Encapsulated within an Organic Cage **Masayuki Nihei**

11:20-11:40 IL-84 Ferroelectricity in spin crossover compounds **Shinya Hayami**

11:40-12:00 IL-85 Quantum Information Processing with the Zero-Field Splitting Effects in High-spin Centers **Shen Zhou**

12:00-12:30 KL-26 Bidirectional photoswitching and solvent effects in iron(III) spin crossover complexes **David Harding**

Catalysis, Energy and Small Molecule Activation

09:30-12:30

1F, Room 103

Chair	Michael Huang		
09:30-10:00	KL-28	Ruthenium-Oxygen Species in Oxidation Reactions: Characteristics and Mechanistic Insights	Takahiko Kojima
10:00-10:20	IL-91	Fueling the Future	Kuo-Wei Huang
10:20-10:40	IL-92	Electrochemical Polymerization Provides Function-Integrated Systems for Water Oxidation	Mio Kondo
10:40-11:00	Coffee Break, 1F Hallway		
11:00-11:20	IL-93	Ligand engineering toward the structural and functional control of metal nanoclusters	Quan-Ming Wang
11:20-11:40	IL-94	Potential-driven dynamic structures of electrocatalysts	Hao Ming Chen
11:40-12:00	IL-95	Bioinspired Molecular Water Oxidation Catalysts	Ming-Tian Zhang
12:00-12:30	KL-29	Bioinspired Small Molecule Conversion Catalysis Mediated by 1st-row Transition Metals	Yunho Lee

Lanthanides and Actinides

09:30-12:30

2F, Room 201

Chair	Chun-Yi Lin		
09:30-10:00	KL-31	Cerium Carboxylate Clusters: Synthesis and Photocatalysis	Kazushi Mashima
10:00-10:20	IL-101	Fine-tuned core structures of lanthanide complexes by applying nitrophenolate-type ligands	Po-Heng Lin
10:20-10:40	IL-102	Rare-earth Metallacyclic Chemistry	Wen-Xiong Zhang
10:40-11:00	Coffee Break, 1F Hallway		
11:00-11:20	IL-103	Lanthanide ELEMENTS: a Helicate structure for the luminescence	Miki Hasegawa
11:20-11:40	IL-104	Lanthanide macrocycles: Magnetism and beyond	Jinkui Tang
11:40-12:00	IL-105	Syntheses and reactivity of heterobimetallic rare-earth/late transition metal complexes with LM→Ln dative bonds	Peng Cui
12:00-12:30	KL-32	Rare-earth-catalyzed hydrosilylation	Chunming Cui

Main Group Element Chemistry

09:30-10:40

2F, Room 202

Chair Tiow-Gan Ong

09:30-10:00 KL-34 Small molecules activation by N,S-chelated metal complexes **Sundargopal Ghosh**

10:00-10:20 IL-111 Stable Organic Radicals (feat. N-Heterocyclic Carbenes) **Eunsung Lee**

10:20-10:40 IL-112 Reactivity of a Cyclic (Alkyl)(amino)silylene and Its Derivatives **Takeaki Iwamoto**

10:40-11:00 Coffee Break, 1F Hallway

11:00-12:30

2F, Room 202

Chair Hsueh-Ju Liu

11:00-11:20 IL-113 Tridentate Nacnac: Pendant Picolyl Powers Peculiar Chemistry **Sakya Singha Sen**

11:20-11:40 IL-114 Coordination chemistry starting from dilithiostannoles and -plumboles **Masaichi Saito**

11:40-12:00 IL-115 The Low-Valent Gold Complexes Coordinated by Dialkyltetraylene **Zhifang Li**

12:00-12:30 KL-35 Controlled Functionalization of Carboranes via Transition Metal- Catalyzed B-H Activation **Zuwei Xie**

Magnetic Materials

14:00-14:30

1F, Room 102

Chair Yun-Ming Wang

14:00-14:30 KL-27 Multifunctional spin-crossover materials and organic radicals magnetism **Phan Van Hoa**

Bioinorganic Chemistry and Biomedical Diagnostics

14:30-17:00

1F, Room 102

Chair Yun-Ming Wang

14:30-14:50 IL-86 Multi-action Platinum Anticancer Compounds **Janice Aldrich-Wright**

14:50-15:10 IL-87 Iron(III)-based CORM with dynamic variation in responsive wavelengths depending on H⁺ **Hiroshi Nakajima**

15:10-15:30 IL-88 Peroxy Intermediates in Aldehyde Deformylation and Nitrile Activation **Jaeheung Cho**

15:30-15:50 Coffee Break, 1F Hallway

15:50-16:10 IL-89 Molecular mechanism of NO reduction catalyzed by Fe-containing nitric oxide reductases **Yoshitsugu Shiro**

16:10-16:30 IL-90 Metal-Ligand Cooperation in Dinuclear Dinitrosyl Iron Complexes for Small Molecule Activation **Tsai-Te Lu**

Oral Presentation (Electronic Structures and Bonding of Metal Complexes)

16:30-16:45	Oral-09	Structure of the Copper (II)-Cefotaxime Complex	Khulan Byambasuren
16:45-17:00	Oral-10	Synthesis, properties and structural analysis of a new series of oligonuclear copper (II) complexes with pyrazolato-bridges	Marilena Ferbinteanu

Metal Organic Frameworks

14:00-17:00			1F, Room 103
Chair	Chia-Her Lin		
14:00-14:30	KL-30	MOFs to Create Advanced Polymers	Takashi Uemura
14:30-14:50	IL-96	Rare Earth Functional Complexes	Weisheng Liu
14:50-15:10	IL-97	Machine-Learning-Assisted Synthesis of Semiconductive Coordination Polymers	Daisuke Tanaka
15:10-15:30	IL-98	Insights into MOF Chemical Biology	Fa-Kuen Shieh
15:30-15:50	Coffee Break, 1F Hallway		
15:50-16:10	IL-99	Dynamic Structural Transformation of Metal-Organic Framework	Minyoung Yoon
16:10-16:30	IL-100	Metal-organic network-forming glasses for energy applications	Satoshi Horike

Oral Presentation (Catalysis, Energy and Small Molecule Activation)

16:30-16:45	Oral-11	Electrochemical conversion of methane to useful oxygenates using an oxygen transfer cascade provided by a bi-layer coating electrode	Yeshayahu Ben-Eliyahu
16:45-17:00	Oral-12	Electrochemical and photochemical hydrogen evolution from water catalyzed by first row transition metal complexes	Kosei Yamauchi

Functional Materials

14:00-15:30			2F, Room 201
Chair	Chen-Yu Yeh		
14:00-14:30	KL-33	Molecular spin state manipulation and spin chemistry	Song Gao
14:30-14:50	IL-106	An open-shell, magnetoluminescent, two-dimensional coordination polymer with a triangular organic radical ligand	Tetsuro Kusamoto
14:50-15:10	IL-107	Chromatographic separation of hydrogen isotopes at ambient temperature using dihydrogen complexes	Shinya Takaishi
15:10-15:30	IL-108	Synthesis and properties of atomically precise silver nanoclusters with polyoxometalates	Kosuke Suzuki
15:30-15:50	Coffee Break, 1F Hallway		

Functional Materials

15:50-17:00 2F, Room 201

Chair Tien-Lin Wu

15:50-16:10	IL-109	Phase transitions in multi-component dense crystals	Wei-Xiong Zhang
16:10-16:30	IL-110	Thermo- and mechano-triggered luminescence ON/OFF switching by supercooled liquid/crystal transition of Pt(II) complex thin films	Masaki Yoshida

Oral Presentation (Functional Materials)

16:30-16:45	Oral-13	Macro- and atomic-scale observations of a one-dimensional heterojunction in a nickel and palladium nanowire complex	Masanori Wakizaka
16:45-17:00	Oral-14	Bis-pyrazole-bis-acetate based coordination complexes as building blocks for the design of hybrid materials	Afaf Oulmidi

Main Group Element Chemistry

14:00-17:00 2F, Room 202

Chair Kuo-Wei Huang

14:00-14:30	KL-36	Five-fold Symmetric Complexes for Spherical Supramolecular Aggregations	Manfred Scheer
14:30-14:50	IL-116	Formation of stable intra- and inter-molecular radical ion pairs by Lewis acid coordination	Xinping Wang
14:50-15:10	IL-117	Synthesis Towards Chiral π -Conjugated Iridium Metallacycles	Rong Shang
15:10-15:30	IL-118	From methane functionalization to polystyrene hydrogenolysis: borenium in C-H and C-C bond activations	Huadong Wang
15:30-15:50	Coffee Break, 1F Hallway		
15:50-16:10	IL-119	Coordination Chemistry of the Cationic Donor Ligands	Moumita Majumdar
16:10-16:30	IL-120	Synthesis of Disilane-Bridged Aromatic Compounds for the Luminescent Materials	Yoshinori Yamanoi

Oral Presentation (Electronic Structures and Bonding of Metal Complexes)

16:30-16:45	Oral-15	A radical approach to novel reactivity	Nicolaas P.van Leest
16:45-17:00	Oral-16	Electronic tuning of Fe ^{II} and Ru ^{II} complexes through choice of coordinated azine	Matthew Robb

Plenary Session 7 (Bioinorganic Chemistry and Biomedical Diagnostics)

17:05-17:50 1F, Room 101

Chair Chen-Hsiung Hung

17:05-17:50	PL-07	Bioinorganic Strategies to Study Multiple Facets in Alzheimer's Disease	Mi Hee Lim
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Thursday, August 11, 2022

Plenary Session 8 (Functional Materials)

08:40-09:25 1F, Room 101

Chair Ru-Shi Liu

08:30-09:15	PL-08	Luminescence Materials: A Wonderful Toolbox for Applied Imaging and Assistive Technologies	Xiaogang Liu
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Main Group Element Chemistry

09:20-10:30 1F, Room 102

Chair Ching-Wen Chiu

09:20-09:40	IL-121	Synthesis of Novel Aluminum Catalysts for Ring-Opening Polymerization of ϵ -Caprolactone and Their Polymerization Mechanism Study	Hsuan-Ying Chen
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09:40-10:00	IL-122	N-Heterocyclic Silylene Stabilized Disilicon(0) Complexes	Zhenbo Mo
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Oral Presentation (Supramolecular Chemistry and Electronic Structures and Bonding of Metal Complexes)

10:00-10:15	Oral-17	Tow-dimensional MOFs Composed of Single-Molecule Magnets	Yoji Horii
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10:15-10:30	Oral-18	Multimetallic Set up of 2,1,3-Benzothiadiazole: Revelation of Electronic Structure and Application Potential	Sanchaita Dey
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Functional Materials

09:20-10:30 1F, Room 103

Chair Jeffrey M. Farrell

09:20-09:40	IL-123	Substituent Engineering of Organoboron Compounds for Ultrathin and Nondoped OLEDs	Tien-Lin Wu
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09:40-10:00	IL-124	Construction of Amorphous Coordination Polymers From Liquid Metal Complexes	Tomoyuki Mochida
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Oral Presentation (Functional Materials and Transition Metal)

10:00-10:15	Oral-19	Unusual Substituent effects of Paddle-Wheel Organometallic Molecular Wires on Single-Molecule Conductance	Yuya Tanaka
10:15-10:30	Oral-20	Circularly polarized luminescence of (O ⁺ N ⁺ C ⁻)-cyclometalated carbene platinum(II) complexes having distorted structure	Soichiro Kawamorita

Catalysis, Energy and Small Molecule Activation

09:20-10:30			2F, Room 201
Chair	Hao Ming Chen		
09:20-09:40	IL-125	Nanoarchitectonic Engineering for Small Molecule Conversion	Chun-Hung Kuo
09:40-10:00	IL-126	Preparation of New Polymers via Coordination Polymerization using Rare-earth Metal Catalysts	Dongmei Cui

Oral Presentation (Catalysis, Energy and Small Molecule Activation)

10:00-10:15	Oral-21	Steering Redox Pathways via Hybrid Bilayer Membranes	Edmund Tse
10:15-10:30	Oral-22	Precise synthesis and catalytic evaluation of Mo-based subnanoclusters on low-temperature CO ₂ hydrogenation	Augie Atqa

Metal Organic Frameworks

09:20-10:30			2F, Room 202
Chair	Chia-Her Lin		
09:20-09:40	IL-127	Distorted coordination geometries of metal nodes for structural properties of coordination polymers	Ryo Ohtani
09:40-10:00	IL-128	Iridium-functionalized stable metal-organic framework-based materials for electrocatalysis	Chung-Wei Kung

Oral Presentation (Metal Organic Frameworks)

10:00-10:15	Oral-23	MOF@PVA beads for VOC capture	Pamela Berilyn So
10:15-10:30	Oral-24	Core-Shell Microspheres of SiO ₂ @MOF for Cycloaddition of CO ₂ with Epoxides	Chen-Yen Tsai

**ACCC Award 2
(Bioinorganic Chemistry and Biomedical Diagnostics)**

 10:30-11:15 1F, Room 101
Chair Masahiro Yamashita

 10:30-11:15 **Wonwoo Nam**
 Biomimetic Metal-Oxygen Intermediates in Dioxygen Activation and
 Formation Chemistry

**Plenary Session 9
(Organometallic Chemistry)**

 11:15-12:00 1F, Room 101
Chair Deng Liang

 11:15-12:00 **Tiow-Gan Ong**
 PL-09 Domesticating the Reactivity of Non-Octet Carbon toward Plethora
 of Chemistry

 12:00-12:15 **Closing Ceremony (1F, Room 101)**