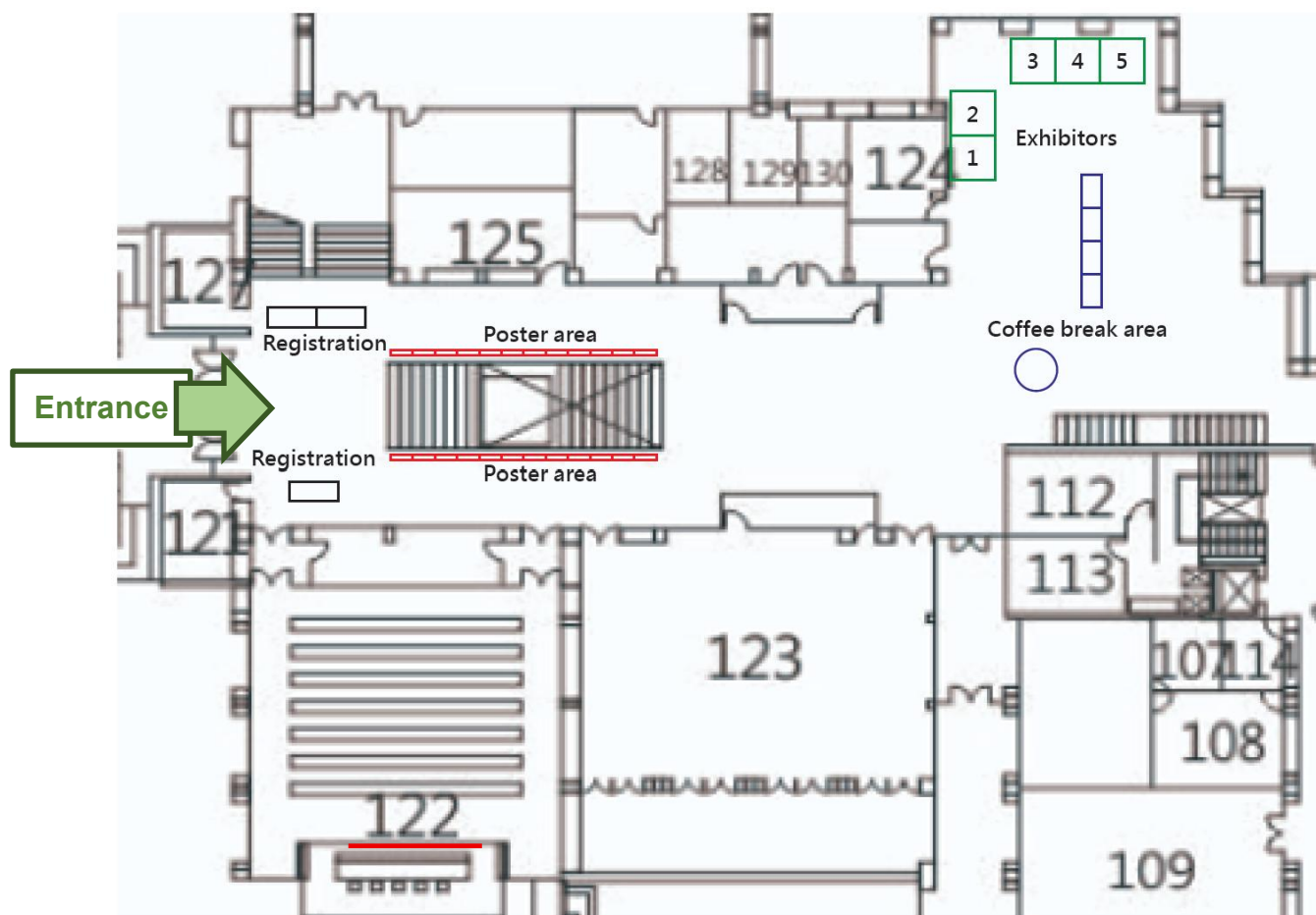


VIII. Technical Program

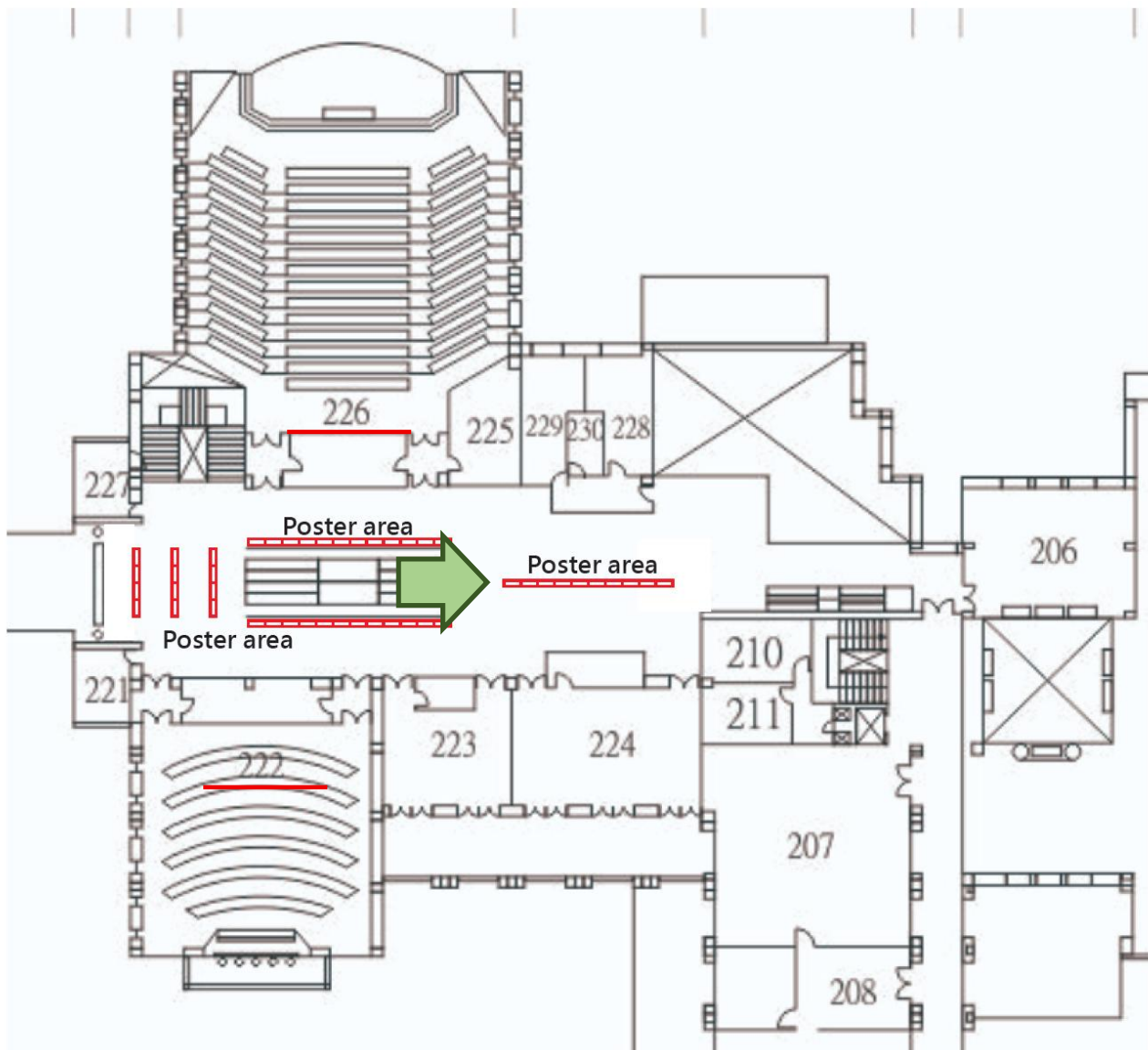
➤ Information for Oral Session

- ✓ The allotted presentation times for **Plenary, Keynote, Invited, and Oral presentations** are **50, 30, 20, and 15 minutes**, respectively, including the Q&A session.
- ✓ Speakers are requested to arrive at the session room at least **10 minutes before** their presentation.
- ✓ Speakers may bring their own laptops for their presentations.
- ✓ Please use the **4:3 aspect ratio** for your PowerPoint presentation.
- ✓ **Mac users:** Please bring your own **Mac-to-VGA adapter**.
- ✓ Please back up your presentation files. We recommend bringing your PowerPoint presentation on a **USB flash drive** and also saving a backup copy to **Google Drive** or another cloud storage service.

International Conference Hall – 1F



International Conference Hall – 2F



Oral Session

Plenary Speakers

Time	July 02, 2026 (AC226)	
10:00-10:50	Plenary Speaker Shaobin Wang School of Chemical Engineering, Adelaide University Single Atom Catalysts for Chemical Conversion and Degradation	Chaired by: Wen-Yueh Yu
16:40-17:30	Plenary Speaker Jimmy Chai-mei Yu Department of Chemistry, The Chinese University of Hong Kong Preparation of Nonmetal Photocatalysts from Air and Waste	Chaired by: Yung-Jung Hsu

Time	July 03, 2026 (AC226)	
08:30-09:20	Plenary Speaker Masakazu Anpo Osaka Metropolitan University Fuzhou University Solar Hydrogen Is the Key to Achieving Carbon Neutrality	Chaired by: Jeffrey Chi-Sheng Wu
15:00-15:50	Plenary Speaker David Tai-Wei Wu Institute of Chemistry, Academia Sinica Beyond Static Catalysts: AI-Accelerated Molecular Simulations of Reactive Phase Transformations in $\text{MgO} \rightleftharpoons \text{Mg(OH)}_2$	Chaired by: Ming-Kang Tsai

Oral Session The 5th Taiwan-Vietnam Joint Symposium on Catalysis

Time	July 01 (AC226)	
09:40-09:50	Opening remarks	Chaired by: Chechia Hu I-Hsiang Tseng
09:50-10:10	Invited Speaker Minh Thang Le School of Chemistry and Life Science, Hanoi University of Science and Technology The Role of Red Mud as a Catalyst for Hydrogen Production from Acaciawood: A Comprehensive TGA-MS and Kinetic Study	
10:10-10:30	Invited Speaker I-Hsiang Tseng Department of Chemical Engineering, Feng-Chia University Interface and Defect Tuning of Titania-Bismuth Tungstate Photocatalysts for Carbon Dioxide Conversion	
10:30-10:40	Group Photos	
10:40-11:00	Coffee Break	
11:00-11:20	Invited Speaker Chao-Wei Huang Department of Engineering Science, National Cheng Kung University MOF-Derived and Chitosan-Based Photocatalysts for VOC Degradation in Photocatalytic Fluidized Beds	Chaired by: Doan Van Hong Thien Chao-Wei Huang
11:20-11:40	Invited Speaker Doan Van Hong Thien Faculty of Chemical Engineering, Can Tho University Engineering g-C ₃ N ₄ /Zeolite Y Heterostructures for Enhanced Photocatalytic Water Splitting	
11:40-12:00	Invited Speaker Kun-Che Kao Department of Chemistry, National Changhua University of Education Non-Noble Metal Plasmonic MoO ₂ as NIR-Responsive Supports for Energy-Efficient CO ₂ Hydrogenation	
12:00-13:30	Lunch (B1 & 1F- coffee break area)	

Oral Session The 5th Taiwan-Vietnam Joint Symposium on Catalysis

Time	July 01 (AC226)	
13:30-13:50	Invited Speaker Van-Duong Dao Faculty of Biotechnology, Chemistry and Environmental Engineering, Phenikaa School of Engineering, Phenikaa University, From Solar Steam to Electricity: A Multifunctional Platform for Energy and Environmental Sustainability	Chaired by: Chang-Ming Jiang Van-Duong Dao)
13:50-14:10	Invited Speaker Chi-Chang Hu Department of Chemical Engineering, National Tsing Hua University Pre-desolvation of Zinc Ions to Accelerate the Reversible Charge Transfer for the Metallic Zinc Electrodes in Aqueous Media	
14:10-14:30	Invited Speaker Huynh Phuong Thao Faculty of Chemistry and Environment, DaLat University Synthesis of pine bark biochar via microwave pyrolysis for antibiotic removal from aqueous solution	
14:30-14:50	Invited Speaker Chang-Ming Jiang Department of Chemistry, National Taiwan University Controlling Photoelectrocatalysis through Surface Defects, Facets, and Electrolytes	
14:50-15:10	Invited Speaker Tuan Thanh Dang Department of Chemistry, Vietnam National University at Hanoi Development of sustainable and efficient Cu-catalyzed transformations in the synthesis of N-heterocycles	
15:10-15:30	Coffee Break	

Oral Session The 5th Taiwan-Vietnam Joint Symposium on Catalysis

Time	July 01 (AC226)	
15:30-15:50	Invited Speaker Liang-Yi Lin Institute of Environmental Engineering, National Yang Ming Chiao Tung University Defect-regime-controlled Ru–ceria interfaces for integrated CO₂ capture and methanation	Chaired by: Yuan-Peng Du Dang Van Do
15:50-16:10	Invited Speaker Tung Duy Vu Department of Petroleum Chemistry, Vietnam National University Copper-Based Nanowires: Promising Materials for Applications in Catalysis, Sensing, and Energy Technology	
16:10-16:30	Invited Speaker Yuan-Peng Du Department of Chemistry, National Central University Metal-Metal Oxide Interface for CO₂ Hydrogenation: Surface Engineering and Characterization of Active Phases	
16:30-16:50	Invited Speaker Pham Van Bac Thanglong Tech Co. & The Vietnam Adsorption Catalysis Association Microenvironment-Governed Hydrosilylation in Carbon-Filled Silicone Composites for Clean, Resistivity-Stable Vacuum Pads	
16:50~17:10	Invited Speaker Chao-Huang Chen Advanced Catalysis Department, Chemical Engineering Division, Material and Chemical Research Laboratories, Industrial Technology Research Institute High-performance catalytic process for CO₂ hydrogenation and pyrolyzed plastic oil upgrading: From lab-scale design to industrial specifications	
17:10-17:20	Closing Remarks	

Oral Session Industry Seminar

Time	July 01 (AC222)	
16:00-16:25	Invited Speaker Koichi Izumiya R&D Strategy Department, R&D Planning Unit, R&D Headquarters, Kanadevia Corporation Power-to-Gas Technologies for Converting Renewable Energy into Green Hydrogen and e-Methane	Chaired by: Tzu-Ho Wu
16:25-16:50	Invited Speaker Shu-Li Wang Process Research Department, Refining & Manufacturing Research Institute, CPC Corporation The Role of CCUS and CO ₂ Utilization in the Petroleum Industry	
16:50-17:15	Invited Speaker Min-Hon Rei Green Hydrotec Inc. Onsite Hydrogen Production and Supply and Production of Green Hydrogen from Rice Husk.	
17:20-17:30	Break	

Oral Session Joint Workshop on Complex System Analytics: Measurement and Simulation

Time	July 01 (AC122)	
11:00-11:15	Oral Contributor Quang Viet Ly Smart Green Transformation Center (GREEN-X), VinUniversity Nanoconfined Iron-MOF derived Cathode for Micropollutant Removal via Peracetic Acid–Assisted Electro-Fenton	Chaired by: Ming-Kang Tsai
11:15-11:30	Oral Contributor Thanh-Binh Nguyen Institute of Aquatic Science and Technology, National Kaohsiung University of Science and Technology Rational design of a Z-scheme NH₂-MIL-125(Ti)/ZIF-67-heterojunction photocatalyst for peroxymonosulfate-assisted metronidazole degradation	
11:30-11:45	Oral Contributor Philip Anggo Krisbiantoro Department of Applied Chemistry, Graduate School of Engineering, Tohoku University Deoxydehydration of Vicinal Diols over Rhenium-based Catalysts under Ambient H₂ Pressure	
11:45-12:00	Oral Contributor Kong-Wei Cheng Department of Chemical and Materials Engineering, Chang Gung University Light-enhanced Cell Performances and CO₂ Conversion Activities of Zn-CO₂ Batteries Using ZnIn₂Se₄/TiO₂ Bi-functional Catalysts on Cathodes	
12:00-13:30	Lunch (B1 & 1F- coffee break area)	

Oral Session Joint Workshop on Complex System Analytics: Measurement and Simulation

Time	July 01 (AC122)	
13:30-14:00	Keynote Speaker Jer-Lai Kuo Institute of Atomic and Molecular Sciences, Academia Sinica AI assisted exploration of physical and chemical space of mono- and disaccharides	Chaired by: Ming-Kang Tsai
14:00-14:20	Invited Speaker Hong-Kang Tian Department of Chemical Engineering, National Cheng Kung University Synergy between Multiscale Modeling and Experiment: Bridging Atomic Mechanisms and Continuum Behaviors in Advanced Catalysts	
14:20-14:40	Invited Speaker Chia-Hsin Wang Nano Science group, Scientific Research Division, National Synchrotron Radiation Research Center (NSRRC) Unveiling Electrocatalytic Mechanisms for Water Splitting via Near Ambient Pressure X-ray Photoelectron Spectroscopy	
14:40-14:55	Oral Contributor Kuang-Hao Cheng Department of Chemical Engineering, National Tsing Hua University, Benzo[c]cinnoline-Based Conjugated Polymers as Organocatalysts for Photocatalytic CO₂ Reaction	
14:55-15:10	Oral Contributor Phorntep Promma Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University The effects of hydroxyl ligand and nickel cation exchange on ZnH-MFU-4l metal-organic framework for high-temperature CO₂ capture and hydrogenation: a theoretical perspective	
15:10-15:30	Coffee Break	

Oral Session Joint Workshop on Complex System Analytics: Measurement and Simulation

Time	July 01 (AC122)	
15:30-15:50	Invited Speaker Supareak Praserttham Department of Chemical Engineering, Chulalongkorn University The Thailand Public Catalyst and Energy Materials Database 2.0 (TCEM 2.0)	Chaired by: Kuan-Yu Lin
15:50-16:10	Invited Speaker Yu-Chang Lin X-ray Absorption Group, Experimental Facility Division, National Synchrotron Radiation Research Center (NSRRC) Unraveling Catalytic Mechanisms through Operando Multi-modal X-ray Spectroscopy	
16:10-16:30	Invited Speaker Cheng-chau Chiu Department of Chemistry, National Sun Yat-sen University Rethinking reaction mechanisms at the example of gas diffusion and adsorption	
16:30-16:50	Invited Speaker Ching-Tien Chen Department of Chemical Engineering, National Tsing Hua University Uncovering the Crystallization of Zeolites via Multi-Scale Time-Resolved Characterizations	
16:50-17:10	Invited Speaker Wei-Chih Chen Department of Applied Chemistry, Providence University Molecular Design Principles of Pd-NAPA Precatalysts Based on the Precatalyst Activation Process in Cross-Coupling Reactions	
17:10-17:25	Oral Contributor Bunrat Tharat Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University Mechanistic study of 5-hydroxymethylfurfural to 2, 5-furandicarboxylic acid on β -MnO ₂ catalyst: DFT and microkinetic model studies	
17:25-17:30	Break	

Oral Session Topic A. Thermocatalysis

Time	July 02 (AC226)	
13:30-14:00	Keynote Speaker Kohsuke Mori Division of Materials and Manufacturing Science, Graduate School of Engineering, The University of Osaka New Trends in Architected Metal Catalysts for CO ₂ Hydrogenation	Chaired by: Wen-Yueh Yu
14:00-14:20	Invited Speaker Wen Liu School of Chemistry, Chemical Engineering and Biotechnology, Nanyang Technological University Engineering of Metal-Oxide Interfaces for Selective Hydrogenation Catalysts	
14:20-14:40	Invited Speaker Ching-Tien Chen Department of Chemical Engineering, National Tsing Hua University Reactive Forms of Oxygen in Ethylene Epoxidation: Insights from Operando Raman Spectroscopy and DFT Calculations	
14:40-14:55	Oral Contributor Babasaheb Mansub Matsagar Department of Chemical Engineering, National Taiwan University NiZn/SiO ₂ -Catalyzed Lignin Liquefaction for Vanillin-rich Bio-oil Production	
14:55-15:10	Coffee Break	

Oral Session Topic A. Thermocatalysis

Time	July 03 (AC122)	
09:30-09:50	Invited Speaker Chao-Huang Chen Advanced Catalysis Department, Chemical Engineering Division, Material and Chemical Research Laboratories, Industrial Technology Research Institute High-performance catalytic process for CO₂ hydrogenation and pyrolyzed plastic oil upgrading: From lab-scale design to industrial specifications	Chaired by: Molly Meng- Jung Li
09:50-10:10	Invited Speaker Jong Hun Kang Department of Chemical and Biological Engineering, Seoul National University From Micropores to Nanosponge: Mesostructure Control in Beta Zeolites for Plastic Upcycling	
10:10-10:40	Keynote Speaker Yu-Chuan Lin Department of Chemical Engineering, National Cheng Kung University Designing Dynamic Heterogeneous Catalysts: From Silica-Supported Exsolved Catalysts to High-Entropy Oxides and Learning-Guided Optimization	
10:40-11:00	Coffee Break	
11:00-11:20	Invited Speaker Xiaoguang Duan School of Chem Eng, Adelaide University Catalytic Water Purification and Pollutant Upcycling	Chaired by: Jon Hun Kang
11:20-11:40	Invited Speaker Masaaki Kitano MDX Research Center for Element Strategy, Institute of Integrated Research, Institute of Science Tokyo Anion-Defect Engineering Enables Transition-Metal-Free Catalysts for Ammonia Synthesis	
11:40-12:00	Invited Speaker Molly Meng-Jung Li Department of Applied Physics, The Hong Kong Polytechnic University Ammonia as a Hydrogen Carrier for Zero-Emission Energy Applications	
12:00-12:15	Oral Contributor Martin Keller National Institute of Advanced Industrial Science and Technology, Global Zero Emission Research Center N₂-free CO production from CO₂ and NH₃ through catalytic chemical looping in a dual countercurrent moving bed reactor with Ru/La_{0.75}Sr_{0.25}Cr_{0.25}Mn_{0.75}O_{3-δ}	
12:15-13:30	Lunch (B1 & 1F- coffee break area)	

Oral Session Topic B. Electrocatalysis

Time	July 02 (AC226)	
15:10-15:40	Keynote Speaker Zhiqun Lin Department of Chemical and Biomolecular Engineering, National University of Singapore Unlocking the Synergy of Multiple External Fields for Enhanced Catalysis	Chaired by: Yung-Tin (Frank) Pan
15:40-16:00	Invited Speaker Soon Hyung Kang Department of Chemistry Education and Optoelectronic Convergence Research Center, Chonnam National University Engineering 2D MoS₂ via Composite Design, Intercalation, and Defect Modulation for Efficient Hydrogen Evolution Reaction	
16:00-16:20	Invited Speaker Kuan-Wen Wang Institute of Materials Science and Engineering, National Central University Exploring Cu-Based Electrocatalysts for Selective CO₂ Reduction through Interfacial and Atomic-Scale Regulation	
16:20-16:40	Break	

Oral Session Topic B. Electrocatalysis

Time	July 03 (AC222)	
09:30-09:50	Invited Speaker Hirokazu Kobayashi Research Center for Negative Emissions Technologies, Kyushu University Electrochemical CO ₂ Reduction Properties of Cu Surface-Alloyed Nanocubes	Chaired by: Min-Hsin Yeh
09:50-10:10	Invited Speaker Ta-Chung Liu Department of Biomedical Engineering, National Yang Ming Chiao Tung University Engineering Zn-Based Heterointerfaces and Fluorinated Structures toward Selective CO ₂ Electroreduction	
10:10-10:30	Invited Speaker Meng-Yao Guo Department of Chemical Engineering, National Taiwan University of Science and Technology Interfacial Charge-Transfer Engineering of Upcycled Spent LiFePO ₄ for Sustainable Green Hydrogen Production	
10:30-10:45	Oral Contributor Masaaki Yoshida Yamaguchi University Operando Hard and Soft XAFS Spectroscopy of Electrolyte Anion and Cation Effects on Nickel Oxyhydroxide Electrocatalysts for Water Electrolysis	
10:45-11:00	Coffee Break	
11:00-11:20	Invited Speaker Yu-Ching Weng Department of Chemical Engineering, Feng Chia University High-durability and anti-poisoning Pd ₂ Ni ₄ Pt ₄ catalyst for formic acid oxidation	Chaired by: Yung-Tin (Frank) Pan
11:20-11:50	Keynote Speaker Miho Yamauchi Institute for Materials Chemistry and Engineering, Kyushu University Interfacial Phenomena Underlying Green Hydrogenation Reactions	
11:50-12:10	Invited Speaker Wei-Hsiang Huang TPS44A Beamline Scientist, X-ray Absorption Group, National Synchrotron Radiation Research Center (NSRRC) Advanced In-operando/ Time-revolved XAFS Research by using Taiwan Synchrotron TPS44A Quick-Scanning Beamline	
12:10-12:25	Oral Contributor Chandrasekaran Pitchai Department of Chemical Engineering, National Chung Hsing University Engineering Mott–Schottky Interfaces in Ru/WS ₂ /g-C ₃ N ₄ Heterostructure for Improved OER and Zn–Air Battery Performance	

Oral Session Topic C. Photocatalysis

Time	July 02 (AC222)	
13:30-13:50	Invited Speaker Po-Jung Huang Department of Chemical and Materials Engineering, National Central University Metal Organic Framework/Covalent Organic Framework Photochemical System	Chaired by: Linjer Chen
13:50-14:20	Keynote Speaker Akihiko Kudo Research Institute for Science and Technology, Tokyo University of Science Photocatalytic green H ₂ production and CO ₂ reduction using water as an electron donor	
14:20-14:40	Invited Speaker Wen-Hui Cheng Department of Materials Science and Engineering, National Cheng Kung University Tunable Platforms for Photocatalytic CO ₂ Reduction	
14:40-15:00	Invited Speaker Xin Ying Kong School of Chemistry, Chemical Engineering and Biotechnology, Nanyang Technological University Photocatalytic Synthesis of Versatile Chemicals from Waste Plastics	
14:50-15:10	Coffee Break	
15:10-15:30	Invited Speaker Tatsuya Kameyama Faculty of Textile Science and Technology, Shinshu University Synthesis of Semiconductor Nanoparticles with Anisotropic Shapes and Their Photocatalytic Activity	Chaired by: Yung-Jung Hsu
15:30-16:00	Keynote Speaker Hiromi Yamashita Graduate School of Engineering & SANKEN, The University of Osaka Efficient Photocatalytic H ₂ O ₂ Production Using Surface Hydrophobic Modified Metal-Organic Frameworks and Two-Phase Reaction System	
16:00-16:20	Invited Speaker Yun Hau Ng Chemical Engineering, King Abdullah University of Science and Technology Splitting Liquid and Atmospheric Water with Photocatalyst	
16:20-16:40	Break	

Oral Session Topic C. Photocatalysis

Time	July 03 (AC222)	
13:30-13:50	Invited Speaker Can Xue School of Materials Science and Engineering, Nanyang Technological University Bipolar photocatalysis for CO generation via biomass oxidation and CO₂ reduction over polymeric carbon nitride	Chaired by: Chieh-Ting Lin
13:50-14:10	Invited Speaker Tack Ho Lee Department of Chemistry Education, Pusan National University Advancing Solar-to-Chemical Conversion via High-Voltage Tandem Photovoltaics: from Green Hydrogen to Sustainable Ammonia Production	
14:10-14:30	Invited Speaker Heng-Jui Liu Department of Materials Science and Engineering, National Chung Hsing University Hydrodynamic–electrostatic coupling as a universal design principle for mechanically assisted catalysis	
14:30-14:50	Invited Speaker Truong-Giang Vo Faculty of Chemical Engineering, Ho Chi Minh University of Technology Crystal-Phase Engineering for Photoelectrochemical Biomass Valorization	
14:50-15:00	Break	

Oral Session Topic D. Computational Catalysis

Time	July 02 (AC122)	
13:30-13:50	Invited Speaker Kun-Han Lin Department of Chemical Engineering, National Tsing Hua University Data-Efficient Ab Initio Design of Noble-Metal-Lean High-Entropy Alloy Electrocatalysts for Acidic Hydrogen Evolution	Chaired by: Supareak Praserttham
13:50-14:20	Keynote Speaker Mitsutaka Okumura Department of Chemistry, Osaka University Theoretical Study on MOOH Production over Au Cluster Catalyst	
14:20-14:35	Oral Contributor Maneerat Chotsawat Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University First-Principles Investigation of Mo₂B MBene as a High-Performance Anode for Multivalent Metal-Ion Batterie	
14:35-14:50	Oral Contributor Satoru Ito National Institute of Advanced Industrial Science and Technology Understanding Structure-Performance Relationships in Methane Cracking over Fe–Al Composite Catalysts via Machine Learning	
14:55-15:10	Coffee Break	

Oral Session Topic D. Computational Catalysis

Time	July 03 (AC226)	
09:30-10:00	Keynote Speaker Minoru Otani Division of Quantum Condensed Matter Physics, Center for Computational Sciences, University of Tsukuba Multi-scale Simulations for Interfacial Electrochemical Reactions	Chaired by: Hong-Kang Tian
10:00-10:20	Invited Speaker Atsushi Ishikawa Department of Transdisciplinary Science and Engineering, Institute of Science Tokyo Artificial Generation of Heterogeneous Catalysts using First-Principles, Microkinetics, and Machine Learning	
10:20-10:40	Invited Speaker Chen-Hao Yeh Department of Materials Science and Engineering, Feng Chia University Theoretical Investigations for the Enhancement of Photocatalytic Activity by Two-dimensional Heterostructures for Photocatalytic Water Splitting Reaction	
10:40-11:00	Coffee Break	

Time	July 03 (AC122)	
13:30-13:50	Invited Speaker Ming-Kang Tsai Department of Chemistry, National Taiwan Normal University Predicting the Metal-Ligand Coordination of Transition Metal Complexes Using Low-Dimensional Information	Chaired by: Chen-Hao Yeh
13:50-14:10	Invited Speaker Kuan-Yu Lin Department of Chemical Engineering, National Cheng Kung University Double-layer design enables independent modulation of the HER	
14:10-14:30	Invited Speaker Chen-Cheng Liao Department of Chemistry, Fu Jen Catholic University Subsurface Control of Site Heterogeneity in High-Entropy Alloy Electrocatalysts	
14:30-15:00	Coffee Break	

Oral Session Topic E. Porous Materials in Catalysis

Time	July 02 (AC122)	
15:10-15:30	Invited Speaker Hiang Kwee Lee School of Chemistry, Chemical Engineering and Biotechnology, Nanyang Technological University Interfacial Design of Nanostructured Hybrid Photocatalysts for Sacrificial-Agent-Free Fuel Production	Chaired by: Chung-Wei Kung
15:30-15:50	Invited Speaker De-Hao Tsai Department of Chemical Engineering, National Tsing Hua University Aerosol synthesis of hybrid/composite porous nanostructures for CO ₂ utilization	
15:50-16:20	Keynote Speaker Jinwoo Lee Department of Chemical and Biomolecular Engineering, Korea Advanced Institute of Science and Technology Electrocatalyst Design and Interface Engineering Toward Efficient Energy Conversion and Storage	
16:20-16:40	Break	

Oral Session Topic E. Porous Materials in Catalysis

Time	July 03 (AC226)	
11:00-11:30	Keynote Speaker Bing Joe Hwang Department of Chemical Engineering, National Taiwan University of Science and Technology Value-added Electrolysis for Green Hydrogen Production	Chaired by: Hong-Ping Lin/Chung- Wei Kung
11:30-11:50	Invited Speaker Lien-Yang Chou School of Physical Science and Technology, ShanghaiTech University Metal-Support Interfacial- Distance-Dependent Catalytic Selectivity Regulation	
11:50-12:10	Invited Speaker Chia-Her Lin Department of Chemistry, National Tsing Hua University Tailoring MOF Architectures for Enhanced CO ₂ Utilization	
12:10-12:25	Oral Contributor Hiroyuki Takano Kanadevia Corporation CO ₂ Hydrogenation to Short-Chain Hydrocarbons over a Composite Catalyst of Iron Supported on Tetragonal ZrO ₂ and Zeolite	
12:25-13:30	Lunch (B1 & 1F- coffee break area)	
13:30-13:50	Invited Speaker Yen-Chou Chen New Materials R&D Dept., China Steel Corporation Green Transformation of Emission Control at CSC: Advancing from High-Temperature to Energy-Saving Low-Temperature SCR Catalysts and Their Circular Regeneration	Chaired by: Hong-Ping Lin
13:50-14:10	Invited Speaker Yiang-Chen Chou Green Energy and Environment Research Laboratories, Industrial Technology Research Institute From Porous Materials to Industrial Adsorption Systems: Case Studies in Carbon Capture and Energy-Efficient Drying	
14:10-14:30	Invited Speaker Kuo-Ching Wu Dept. of Advance Catalysis, Material and Chemical Research Laboratories, Industrial Technology Research Institute Catalyst for Direct Converting Carbon Dioxide to Alkanes/ Olefins	
14:30-14:50	Invited Speaker Chia-Min Yang Department of Chemistry, National Tsing Hua University Study on thermocatalytic ammonia synthesis over mesoporous carbon-supported Ru-based catalysts	
14:50-15:00	Break	