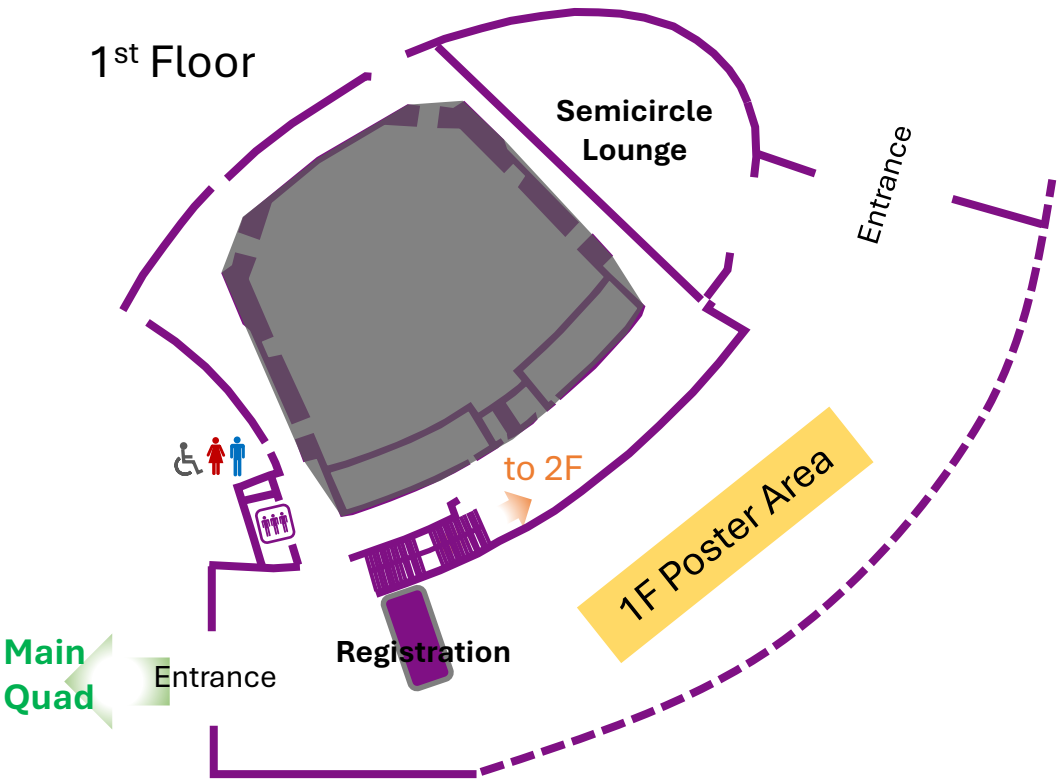
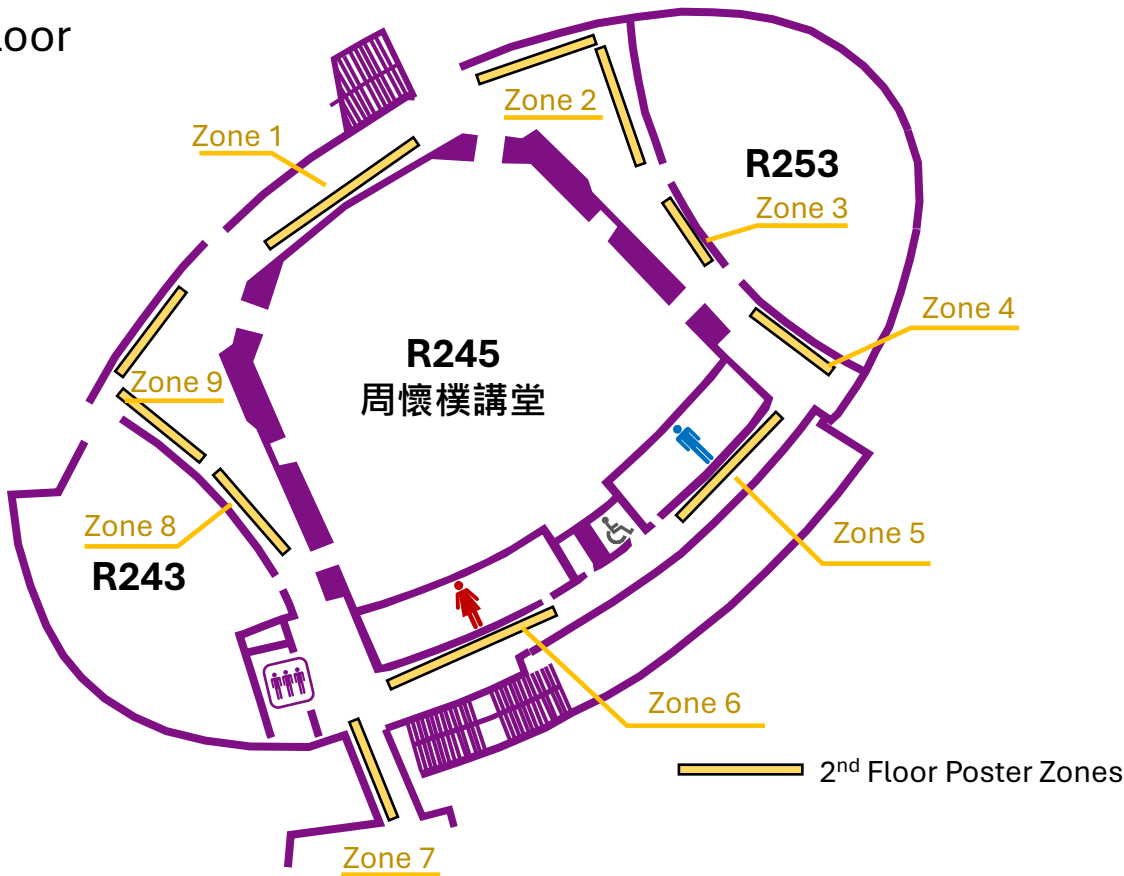


Poster Location Guide



2nd Floor



Technical Program – Poster Session

June 20th, 2025, 13:00-15:00

Topic A: Advanced Catalyst Synthesis, Macronix Building, 2nd floor, Zone 1

Paper #	Title	Presenting Author
274	Tailoring Asymmetric Coordination in Single-Atom Catalysts for Highly Efficient and Selective Photocatalytic CO ₂ Reduction	Sharmila Sainath Singh
085	Applications and Case Studies of Pressure Swing Adsorption Technology	Wen-Long Hwang
051	Synthesis and Characterization of Nano Zero-Valent Iron Composites and Porous Microcarbon Spheres for Chromium Removal from Wastewater	Cuong Thi Kim Nguyen

Topic B: Advanced Characterization for Mechanistic Understanding, Macronix Building, 2nd floor, Zone 1

Paper #	Title	Presenting Author
276	<i>In-situ</i> Near-ambient-pressure XPS Study of Cobalt Phosphide Electrocatalysts for Electrochemical Nitrate Reduction to Ammonia	Chun-Kai Hsu
065	Preparation of De-aromatic solvent by Catalytic Hydrogenation method	Ching-Fa Chi
261	Unraveling Radical Coupling Pathways in Photocatalytic CO ₂ Reduction and Methanol Reforming toward Selective C ₂ Product Formation	Van-Can Nguyen

Topic C: Biocatalysis, Macronix Building, 2nd floor, Zone 8

Paper #	Title	Presenting Author
250	Biosynthesis of a Novel Melanin, i-Melanin, and Its Application in UV-Protection	Chanseo Yeo
249	Enhancing Butanol Biosynthesis through High-Activity Reductase Screening and NADH Regeneration	Ye-chan Jeong
089	Lipase activity analysis of diatom <i>Halamphora</i> sp.-associated bacteria	Min-Ying Wang

Topic D: Computational Catalysis, Macronix Building, 2nd floor, Zone 8

Paper #	Title	Presenting Author
062	Impact of Emergency Shutdown Procedures on Acetylene Hydrogenation Catalyst Performance	Ling Wang

Topic E: Electrocatalysis, Macronix Building, 2nd floor, Zone 3

Paper #	Title	Presenting Author
165	High-Performance Pt-Doped Entropy-Stabilized Alloy Catalyst for Ammonia Oxidation-Driven Hydrogen Production	Hsiang-Chen Jao
155	Engineering Study for One-Pot CO ₂ RR-CCU Electrolyzer with Liquid-Fed Bicarbonate Electrolyte	Li-Chi Lu
072	Electrocatalytic Phase Transition of Cobalt Oxide Embedded in Mesoporous Carbon Polyhedrons for Adsorption of Molybdate	Yu-Jen Shih

Topic F: Photocatalysis, Macronix Building, 2nd floor, Zone 1 & Zone 8

Paper #	Title	Presenting Author
262	Construction of CuTCPP/ZnO Hybrids for Enhanced Photocatalytic Performance	Ding-Han Lai
197	Photocatalytic Water Splitting over Tantalum-Based Defect Pyrochlore Nanocrystals	Yu-Huan Lu
125	Bi ₂ O ₂ S and Bi ₂ O ₂ S/GO: Synthesis, Characterization, and Photocatalytic Reduction of Carbon Dioxide and Degradation of Dye	Ruo Yu Lee
120	Photocatalysis of Carbon Dioxide and Organic Pollutants by SbSeI/g-C ₃ N ₅ Composites	Ho-Wen Liu
110	Synthesis of Cs ₂ SnCl ₆ /g-C ₃ N ₅ Composites for Photocatalytic Conversion of CO ₂ and CaCO ₃ into Hydrocarbons and Dye Degradation	Yi-Jun Liu
108	NaInS ₂ /g-C ₃ N ₅ heterojunctions: controlled synthesis, characterization, and enhanced visible-light-photocatalytic activity	Shuo-Yi Zhang
090	Surface Functionalization of Mesoporous Silica with Titania to Improve Adsorption and Photocatalysis	Zhi-Jia Jiang
046	Structural Analysis and Application Exploration of Tungsten Oxide/Graphene Oxide.	Tsou-Jui Chen
022	WO ₃ /TiO ₂ heterojunction films prepared by liquid-phase deposition were utilized to enhance the photocatalytic activity of TiO ₂ films and effectively degrade methylene blue.	Cheng-Xiang Liu

Topic G: Thermal Catalysis, Macronix Building, 2nd floor, Zone 7

Paper #	Title	Presenting Author
194	Partial Hydrogenation of Fatty Acid Methyl Esters over Mesoporous Carbon Supported Palladium Catalysts	Li-Yu Wang
193	DRIFTS Study of CO ₂ Hydrogenation over Hierarchical Silicalite-1 Supported Ru Catalysts	Ethan Andrew Yang
177	Structure-Activity Relationship of Iron Carbide/Nitride Catalysts for Ambient-Pressure Reverse Water-Gas Shift Reaction	Jui-Teng Huang
153	Evaluation of the new commercial SCR catalysts	Huan-Ting Kuo
133	Impact of Sintering Flue Gas on Surface Poisoning of Medium–Low Temperature SCR Catalysts	Li-Yi Chen
131	Synthesis of Glycerol Carbonate from Glycerol and Dimethyl Carbonate using Li ₂ ZrO ₃ as Catalyst	Wu Chen-Jyun
122	Preparation of Glycerol Carbonate by Transesterification of Glycerol with Lithium Iron as Catalyst	Wei-Ming Chang
118	Synthesis of Glycerol Carbonate from Glycerol and Dimethyl Carbonate using Li ₂ VO ₃ as Catalyst	Yun-Ai Lin
105	Exploring Active Sites in CO ₂ Hydrogenation to methanol over Copper-Zirconia Catalysts: Unveiling the Role of Size Effects and the Metal-Support Interface	Yu-Ching, Hsiao
104	Quantitative Evaluation of ZrO ₂ - Ni Inverse Catalyst Interfaces for CO ₂ Methanation Using the Peak Centroid Analysis of H ₂ -TPR Profiles	Pin-Wei Chen
103	Highly Dispersed Nano-sized CuCeO _x Mixed Oxides on SiO ₂ for Enhanced RWGS Activity	Zi-Shu Chen
063	Prospects of Catalysis in Sustainable Nylon Monomer Manufacturing	Hsin-lung Lee
009	Feasibility Study on Ammonia Catalytic Combustion	Ju-Chen Hsu