

Poster Session

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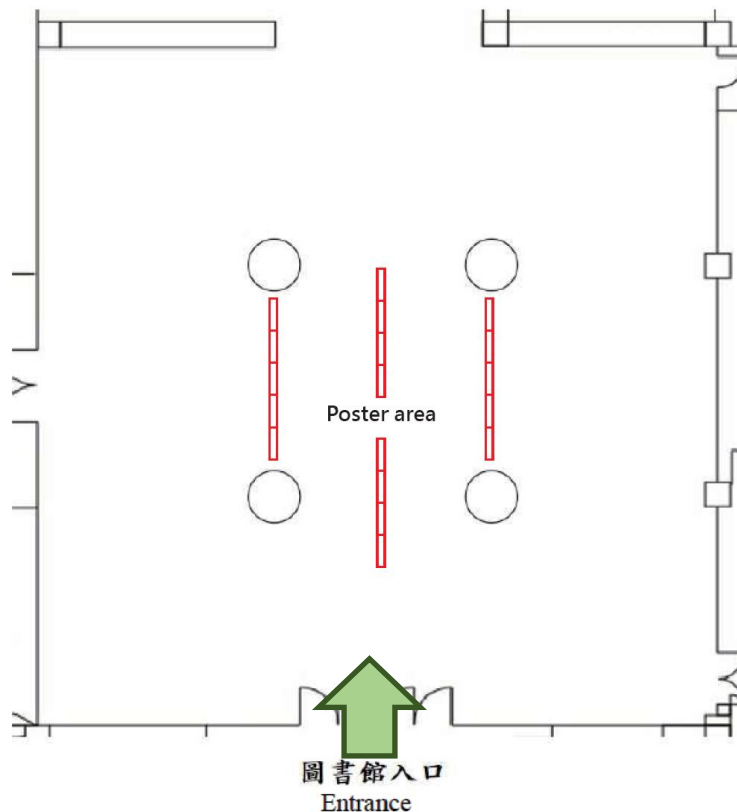
Participation Guidelines

1. **Program & Results Announcement:** Group assignments, session schedules, presentation order, and venue information will be announced on the conference website.
2. **Location:** Lobby Area (1F), Library
3. **Poster Display Period:** Posters must be displayed by **8:30 on July 2**, and removed by **15:00 on July 3**.
4. Posters should be prepared in **A0 portrait format (841 mm (W) × 1189 mm (H))**.

International Conference Hall & Library



Library (for Poster Exhibition only)



#	Title	Presenter (Abstract No.)
PS-01	UV-Visible-Light-Driven Photocatalytic Reduction of C1 Molecules to Hydrocarbons and Hydrogen over Pb ₂ MS ₂ I ₃ (M = Sb, Bi)/Graphene Oxide Composites	Yun-Chen Tseng (#242)
PS-02	Elucidating Charge-Driven Active Sites and Redox Pathways for Selective Photocatalysis	Van-Can Nguyen (#237)
PS-03	Influence of Framework Heteroatoms on Ethylene Oligomerization over Bifunctional Ni/M-MCM-41 (M = Al, B, Ga) Catalysts	Yong-Ming Dai (#223)
PS-04	Enhancing Oxygen Evolution Activity of Fe-Doped NiO _x Catalysts through Organic Molecule-Induced Structural Distortion	Ke-Hsuan Wang (#218)
PS-05	Transition Metal Sulfide-Enhanced FeNi Layered Double Hydroxides for Electrocatalytic Oxygen Evolution Reaction	Yi-Cheng Lee (#207)
PS-06	Dynamic Catalytic Ammonia Decomposition: A Strong Coupling Between Localized Transient Heating and Reaction Kinetics	Korawich Trangwachirachai (#195)
PS-07	A High-Performance Supercapacitor Prepared with Self-doped Polyaniline and Ti ₃ C ₂ T _x MXene Nanosheets Composites	Tran Nhat Yen Nhi (#191)
PS-08	Dual Atom Decoration on Ni ₃ S ₂ Bifunctional Catalysts as Cathodes of Zn-air Batteries: A First-Principles Study	Pariwut Falun (#175)
PS-09	Shrimp Shell Waste to Functional Photocatalyst: N-Doped Carbon/Ag ₃ VO ₄ /Ag NPs Composite for Photocatalytic Azobenzene Removal	Hardy Shuwanto (#163)
PS-10	Nanosheet-Based Hierarchical Silicalite-1 Supported Ru Nanocatalysts for CO ₂ Hydrogenation	Ethan Andrew Yang (#159)
PS-11	Enhanced Thermocatalytic CO ₂ Hydrogenation by Ni/CeO ₂ /SiO ₂ Nanocomposite Catalyst via Co-precipitation Method	Jui-Teng Huang (#158)
PS-12	A Closed-Loop Route from Battery Waste to Hydrogen via Iodine-Mediated Lithium Recovery and Nanofiltration	Bo-Yao Chen (#154)
PS-13	Synergistic Recycling of Spent LFP/NCM via Electron-Loop Platform for In-situ Synthesis of Ni-Co-Mn LDH Electrocatalysts toward Efficient Seawater Hydrogen Evolution	Chun Jung Hsu (#153)
PS-14	Machine-Learning-Assisted Identification of Subsurface Descriptors for Hydrogen Adsorption Free Energy on High-Entropy Alloy Pt-Skin Surfaces	Yu-Huan Huang (#152)
PS-15	UV-Visible-Light-Driven Photocatalytic Reduction of C1 Molecules to Hydrocarbons and Hydrogen over Sn ₂ MS ₂ I ₃ (M = Sb, Bi)/Graphene Oxide Composites	Han Wen Zhang (#151)
PS-16	Crystalline Quartz-Enhanced UV Photodegradation of Perfluorooctane Sulfonate (PFOS): Improved Defluorination via Sustained Photon Flux in Aqueous Systems	Li Tien Kao (#150)
PS-17	Y ₂ O ₃ -Doped ZnO-C-N Nanorods as Efficient Oxygen Evolution Catalysts for Anion Exchange Membrane Water Electrolyzers	Karthik Kannan (#142)
PS-18	UV-Visible-Light-Driven Photocatalytic Reduction of C1 Molecules to Hydrocarbons and Hydrogen over Sb _x O _y X _z (X = F, Cl, Br, I)	Yu Chi Liu (#140)
PS-19	AgSbS ₂ /S-C ₃ N ₄ Heterojunctions for Photocatalytic C ₁ Conversion toward Hydrocarbons and Hydrogen	Kai-Yi Tsai (#139)
PS-20	Photocatalytic Reduction of C1 molecules and Dye Degradation by Ternary Bismuth Sulfohalides (Bi ₁₃ S ₁₈ X ₂ , X = Cl, Br, I) and Graphene Oxide Composites	Yi-Ming Lin (#137)
PS-21	Study on the application of photocatalysts in the degradation of VOCs emitted by SVE system of the contaminated site through catalytic incineration	Chien-I Wu (#129)
PS-22	Cu-Induced Symmetry-Broken Mo Sites Promote Efficient Ammonia Electrosynthesis under Neutral Conditions	Endalkachew Arefa Moges (#125)
PS-23	Pressure-Driven Catalytic Pyrolysis of Polypropylene over Li ₄ SiO ₄ and Li ₂ SiO ₃ : Toward Tunable Hydrocarbon Product Distribution	Chen Ling Tai (#117)
PS-24	Valence Changes in Vanadium Ions Induced by Contact Electrification and Contact-Electro-Catalysis	Jing Ya Gong (#113)
PS-25	Bridging Hydrogen Spillover and Intermediate Stabilization in CO ₂ Hydrogenation through Bimetallic Sites	Thang Quoc Nguyen (#98)
PS-26	Thermal vacuum-hydrogen pretreatment strengthens metal-support interactions and enhances CO ₂ methanation over Ru clusters supported on TiO ₂	Ching-Shiun Chen (#92)

#	Title	Presenter (Abstract No.)
PS-27	Carbon-Source-Dependent Photocatalytic Conversion of C ₁ Molecules over Yb ₆ Te ₅ O _{19.2} Photocatalyst	Yan-Jun Chen (#90)
PS-28	In Situ and Operando Monitoring of Electrified Interfaces: Real-Time FTIR Decoding of CO ₂ RR, GlyOR, and HMFOR Intermediates	Keseven Lakshmanan (#88)
PS-29	Carbon-Source-Dependent Photocatalytic Conversion of C ₁ Molecules over NaBiS ₂ Photocatalyst	Yung-Ching Chen (#84)
PS-30	Cobalt-containing N, S-doped carbon-based cathode catalysts for anion-exchange membrane fuel cells	Jun-Cheng Liu (#60)
PS-31	Upcycling Spent Lithium-Ion Battery Black Mass into Hydrogen-Evolving Electrodes through Fluorinated Nickel Foam Interface Engineering	Ping-Jui Wu (#54)
PS-32	Development of a Microwave-Assisted Catalytic Process for CO ₂ Utilization via the Boudouard Reaction	Zhihai Huang (#46)
PS-33	Fiber-Structured Metal Oxides for Superior Microwave Heating and Enhanced CO Oxidation	Chen-Yu Yan (#45)
PS-34	Elucidating the Reaction Mechanism of Furfural Electro-Reduction on Nanoporous Copper	Yu-Shuo Lee (#44)
PS-35	NiCo Layered Double Hydroxide-Decorated TiO ₂ Nanotube Arrays as Efficient Photoanodes for Corrosion Protection of 304 Stainless Steel	Yu Cheng Hsu (#40)
PS-36	Engineering oxygen vacancy in CuFe-TPA-derived carbon composite for enhanced selective nitrate reduction to ammonia synthesis	Yu-Jen Shih (#26)