

List of Award Nominees for the Students Oral Competition (1/3)

Student Oral Presentation Competition (O1)

Abs. No.	Presenter	Title
063	Yu-Chen Lin	CO ₂ Hydrogenation to Methanol Enhanced by Regulating the Hydrophilic/Hydrophobic Properties of Cu-Based Catalysts
070	Chen Wei Yu	Catalytic Dehydrogenation of Cycloalkanes-Based for Liquid Organic Hydrogen Carriers
079	Wei-Ting Hsu	Unveiling the Impact of Structure-Dependent Cu/CeO ₂ Solid Solutions on Active Site Evolution for the RWGS Reaction
236	Tammy Laysandra	Plasma-Engineered Universal Anchoring of Multimetal Catalysts Enables Atomic Synergy and Enhanced Multicatalysis

Student Oral Presentation Competition (O2)

Abs. No.	Presenter	Title
199	Chan-Cheng Yeh	Synthesis of Rose-like Layered Nanosheets Bismuth Oxide Acetate Composites for Electrocatalytic CO ₂ Reduction to Formate
220	Ryohei Ishihara	Potential-Dependent Interfacial Processes of NiO _x Electrodes during the Oxygen Evolution Reaction
221	Neermunda Shabana	Anatase-Rutile TiO ₂ @V ₄ C ₃ T _x MXene for Omnidirectional Electrocatalytic Water Splitting
238	Kang-Shun Peng	Towards Industrialization: Cu–Carbon Interface Engineering for High-Current-Density Electrochemical CO ₂ Reduction to Multi-carbon Products

List of Award Nominees for the Students Oral Competition(2/3)

Student Oral Presentation Competition (O3)

Abs. No.	Presenter	Title
31	Yu-Chen Chien	Synergistic electronic and structural tailoring of RuO ₂ with Zn and Sn for stable acidic OER
62	Tzu-Hsiang Lin	3-d element induced charge redistribution within bimetallic η -phase carbides leads to high performance electrocatalysts for highly efficient anion exchange membrane water electrolysis
102	Ashok vallal Saravanan	Coordination-Driven Ion Exchange Synthesis of High-Entropy Single-Atom Electrocatalysts Unraveled by Operando XAS
109	Hsin-Kai Lee	Elucidating Nitrogen-Content-Dependent Properties of Tungsten Nitride (WN _x) for Alkaline Electrochemical Nitrate Reduction

Student Oral Presentation Competition - Award Selection Form (O4)

Abs. No.	Presenter	Title
95	Yen Thi Hoang	Distinctive Two-Dimensional Heterostructural Photocatalysts For Water Splitting Reaction
114	Ayalew Manahilie Dinkirie	Optimizing Amino-Functionalized Bi-MOFs via Ligand–Metal Ratio Engineering for Selective Photocatalytic Oxidation of Glycerol
124	Temesgen Takele Niguso	Self-Floating Ag/Biobr@MIL-53(Fe) Janus Membrane: Harnessing Asymmetric Wettability for Synergistic Solar-Driven Wastewater Remediation
128	Yu-Ting Huang	Utilizing Spherical Photocatalysts in a Fluidized Bed System to Optimize the VOCs Decomposition

List of Award Nominees for the Students Oral Competition (3/3)

Student Oral Presentation Competition (O5)

Abs. No.	Presenter	Title
56	Liang-Ting Wu	Beyond Single-Facet Limits: Unveiling Dynamic N ₂ Activation on Iridium Nanoparticles via Enhanced Sampling and Machine Learning Potentials
64	Sirapat Tiwtusthada	Machine learning-assisted Density Functional Theory study of High-Entropy Oxide Electrocatalyst Screening for Hydrogen Evolution Reaction
74	Jing-Yan Wu	Ion-Size-Driven Catalytic Activity in Co-Fe Prussian Blue Analogues for H ₂ O ₂ Reduction
85	Bing-Xun Zhong	A 3D Continuum Modeling Framework with Automated Parameter Estimation for Predicting Degradation and Lifetime of Oxygen Evolution Electrocatalysts
186	Alex Sam	Plasmonic Au/NbS ₂ Heterostructures for Enhanced Charge Transfer and Photoelectrochemical Hydrogen Evolution Reaction

Student Oral Presentation Competition (O6)

Abs. No.	Presenter	Title
35	Uzma Razzaq	Temperature-tuned Co-ZIF-67@Fe-MIL(101) derived catalysts for advanced peroxymonosulfate activation in enrofloxacin removal from water
123	Ting-Han Chen	Engineering the Acidity and Porosity of Zeolite Beta via Sequential Dealumination-Desilication Treatments for Hydrocracking
133	Chieh-Wei Shao	Proposing Nickel-Organic Materials for Capture and Electrochemical Reduction of Carbon Dioxide
192	Cheng-Yan Hsieh	Chemical Stability of a Zirconium-Based Metal–Organic Framework in Aqueous Electrolytes: Guidelines for the Use in Electrocatalysis

List of Award Nominees for the Students Poster Competition (1/5)

Student Poster Competition (P1)

Abs. No.	Presenter	Title
97	Chien-Wei Wu	Understanding Flue Gas-based Calcium Looping Integrated with Methane-CO ₂ Reforming via Bimetallic NiPd-based Dual Functional Nanostructured Materials
122	Suvapit Kulphanan	Influence of Hydrophobic Surface Modification and Mg/Ce Doping on Cu/ZnO Catalysts for Ethanol-Assisted CO ₂ Hydrogenation to Methanol
148	Hsiao-Yuan Chao	Distinct Roles of Cu/ZnO/CeO ₂ and CuZnCeZrAlO _x catalyst in Ethanol-Assisted CO ₂ Hydrogenation to Methanol
196	Cheng-Chia Kuo	Investigation of High Entropy Phosphide Catalysts in the Reverse Water–Gas Shift Reaction
243	Rou-Yi Lin	High-Entropy Alloy Catalysts for Hydrogen Production via Ammonia Decomposition

Student Poster Competition (P2)

Abs. No.	Presenter	Title
68	Pin-Yu Huang	Mo promoter modified PdZn catalyst for CO ₂ hydrogenation to methanol
73	Aoyama Ririko	Development of a 316L Stainless Steel Self-Catalytic Reactor by Metal 3D Printing for CO ₂ Hydrogenation
81	Huang-Ting Chen	Elucidating the Influence of Pd on the Dynamic Structural Evolution and Oxidation State of MoO _x during the Reverse Water-Gas Shift Reaction
141	Jen-Yu Chang	Silver Distribution Regulates Reactive Oxygen Speciation in Manganese Dioxide

List of Award Nominees for the Students Poster Competition (2/5)

Student Poster Competition (P3)

Abs. No.	Presenter	Title
55	Zun-Wei Wang	Electrodeposition of Self-supported Ruthenium-Tin Catalyst on Titanium Substrate as Anode in Proton Exchange Membrane Water Electrolysis
227	Shu-Yun Cheng	Composition-Balanced P-Doped FeCoNiMnMo High-Entropy Alloy Electrocatalyst for Efficient and Durable Alkaline Seawater Splitting
232	Rais Fakhrirazin	Designing Ruthenium Single-Atom Catalyst with Fluorine Doping for Efficient Nitrogen Reduction Reaction
233	Punnoli Muhsin	Interfacial Synthesis of Cs ₂ PtCl ₆ Perovskite for Strong Coupling with V ₄ C ₃ T _x MXene Toward Efficient Hydrogen Evolution and Urea Oxidation

Student Poster Competition (P4)

Abs. No.	Presenter	Title
50	Li-Chi Lu	Electrolyte Engineering for Bicarbonate Reduction in Proton Exchange Membrane Electrolyzer
146	Yu-Syuan Chu	Confinement-Enhanced Frustrated Lewis Pairs in Hollow BCN Enable Selective Electrocatalytic Nitrogen Reduction
216	Shih-Wei Lee	Nickel Iron Phosphide Electrocatalysts for Efficient Oxygen Evolution Reaction in Alkaline Seawater Media
224	Kuan-Ling Liu	Zinc Phthalocyanine/N-Doped Graphene Quantum Dot Functionalized Graphene toward Highly Selective 2e ⁻ Oxygen Reduction for H ₂ O ₂ Formation

List of Award Nominees for the Students Poster Competition(3/5)

Student Poster Competition (P5)

Abs. No.	Presenter	Title
32	Kuan-Hung Kuo	Tuning Electrode-Electrolyte Interface by Co-Solvent to Enhance Multi-Carbon Products
76	Hassan Shabbir	Iridium-Doped Nickel Oxide with Oxygen Vacancies as a High- Performance Cathode Catalyst for Lithium–Oxygen Batteries: LiO ₂ Intermediate Stabilization, RRDE Analysis, and Mechanistic Insights
96	Guan-Yao Wu	Tuning Selectivity toward Ethanol in Electrochemical CO ₂ Reduction on Ni–Cu Nanoalloys
131	Sumangaladevi Koodathil	AFM-SECM Insights into the Interfacial Reactivity of 2D TMDC Electrocatalysts

Student Poster Competition (P6)

Abs. No.	Presenter	Title
188	Mei-Yu Chien	Confined grown and supported g-C ₃ N ₄ for Visible-Light Photocatalytic Hydrogen Production
222	Wei-Cheng Liao	Modulating Photogenerated Charge Carrier Kinetics via Single-Atom Ni and Pt Co-catalysts for Overall Water Splitting
240	Ying-Jin Chen	Photodeposition Synthesis of Nd@TiO ₂ Photocatalyst for Photocatalytic Reduction Reactions
241	Wei-Zhen Li	Design of Ag/Ni Co-decorated TiO ₂ Aerogels for Synergistic Photocatalytic CO ₂ Conversion

List of Award Nominees for the Students Poster Competition (4/5)

Student Poster Competition (P7)

Abs. No.	Presenter	Title
66	Takuei Hase	Hollow Silica Spheres Encapsulating MoO _x and Pt Nanoparticles for Photothermal CO ₂ Hydrogenation
132	Sharmila Sainath Singh	Tailoring Asymmetric Coordination in Single-Atom Catalysts for Highly Efficient and Selective Photocatalytic CO ₂ Reduction
174	Wan-Ling Chang	Tuning oxidation selectivity via side-chain engineering in linear conjugated polymers for photoreforming of waste into high-value chemicals and hydrogen
178	Shih-Yu Tseng	Bimetallic Nickel Iron Phosphide/Ti ₃ C ₂ T _x MXene composite for photothermal enhanced-catalytic degradation of organic pollutants via persulfate activation

Student Poster Competition (P8)

Abs. No.	Presenter	Title
24	Tzu-Hung Wen	Bayesian Optimization-Guided Catalyst Design via Machine Learning
27	Kei Sato	One-Pot Epimerization of Methyl Glucoside into Rare Sugar Derivative via Dehydrogenation and Hydrogenation over Supported-Ru Catalyst
82	Kuan-Lun Chen	Descriptor-Based First-Principles Discovery of Two-Dimensional MOF Catalysts for Oxygen Evolution via Thermodynamic, Magnetic, and Electronic Descriptors
86	Wei-Xiang Zhou	Mechanistic Insights into Ni Doping-Induced Defects in ZnIn ₂ S ₄ Piezophotocatalysts for Concurrent Hydrogen Evolution and Selective Chemical Valorization: Multi-Scale Simulation and Thermodynamic Analysis

List of Award Nominees for the Students Poster Competition (5/5)

Student Poster Competition (P9)

Abs. No.	Presenter	Title
13	Xiao-Xuan Shih	Real-time Methane Reforming via Zirconia-promoted NiPd Bimetallic Catalyst for Reduced-carbon Hydrogen Production
14	Yu-Hsuan Chen	Continuous Catalytic Removal of Formaldehyde by CuOx/TiO2-based Hybrid Nanoparticle Clusters
75	Yu-Chi Wang	Enhancing Electrocatalytic Oxygen Evolution Reaction via Halogen-Modulated Iridium Sites in Metal–Organic Frameworks
206	Yi-Hong Chen	Fe/Mn Bimetallic MOF–Biochar Composite Granular Cathodes with High Reaction Area for Enhanced Bioelectro-Fenton Performance