

Poster Competition Best Award

Topic A: Batteries

Paper no.	Poster no.	Name	Title
0083	PC-A06	Laurien Merinda	A Bridge Function of Cis-Isomerism Oligomer to Prevent the Carbonate Solvent Degradation on Ni-rich Layered Oxide Cathode
0093	PC-A08	Liang-Jun Guo	Alkali Metal Ion Stabilized Vanadium Oxides as High-Areal-Capacity Cathodes for Zn-Ion Batteries
0196	PC-A31	Chang-Lin Liu	The research of sulfide and gel-polymer composite electrolytes membrane by UV-cured procedure in all solid-state lithium battery
0201	PC-A32	Hong-Zhang Huang	Modeling Microstructure and Interfacial Contact in Composite Cathodes of All-Solid-State Batteries Using Finite Element Analysis and Machine Learning
0216	PC-A38	Yu-Wei Chuang	Advanced Sulfur Hosts Using Transition Metal Sulfide-Carbon Composites for High-Performance Lithium-Sulfur Batteries
0266	PC-A46	Zabish Bilew	Thermally Resilient FPI/PVDF-HFP 3D Networked Nanofiber for Advanced Lithium-Based Batteries

Topic B: Conversions

Paper no.	Poster no.	Name	Title
0117	PC-B05	Chia-Yu Chang	Efficient Fabrication of High-Loading Single-Metal Electrocatalysts Using Electrochemical Templates and Cationic Substitution
0199	PC-B12	Yu-Chun Liu	Tandem Catalysis System Utilizing Three-Dimensional Covalent Organic Frameworks Molecule on Copper Nanowire for Enhanced Electrocatalytic CO ₂ Reduction to C ₂ Products

Topic C: Fast Energy Storage Materials and Devices

Paper no.	Poster no.	Name	Title
0065	PC-C03	Yun Ku	Synergistic Impact of Electrolyte Additives on Self-discharge Phenomena in Activated Carbon-Based Supercapacitors.
0223	PC-C11	Yun Lin	A Novel Efficient Three-stage Electrochemical Pre-lithiation method for the Amorphous Carbon Negative Electrodes of Lithium-ion Capacitors

Topic D: Basic Electrochemistry

Paper no.	Poster no.	Name	Title
0066	PC-D08	Hung-Yi Huang	Exploring Host-Dopant Interactions in Conducting Polymers to Improve Cation Removal Efficiency in Full-Polymer Electrochemical Deionization Systems
0136	PC-D13	Meng-Fei Wu	Porous Structure Manipulation of Activated Carbon in Phase and Morphological Control-MnO _x Composites for Enhanced Electrochemical Capacitive Deionization
0018	PC-D25	Zhen-Chi Liao	Metal-Organic Framework-Derived Trimetallic Sulfides Applied to Electrochemical Water Splitting

Topic E: Photoelectrochemistry

Paper no.	Poster no.	Name	Title
0187	PC-E04	H. Tsou	(111) Orientation Nanotwinned Copper with Well-Controlled Morphology by System-Optimized Electropolishing

Poster Competition Excellent Award

Topic A: Batteries

Paper no.	Poster no.	Name	Title
0048	PC-A02	Yi-Wei Chen	A PAN/PMMA membrane for high-performance lithium-sulfur cells
0146	PC-A14	Zhong-Lun Li	DFT Analysis of Mg-ion Diffusion in SEI Layers and SEI/Magnesium anode Interface for Magnesium Metal Batteries
0180	PC-A21	Chia-Lung Hsieh	Enhancing Ionic Conductivity and Moisture Stability in Br-rich Argyrodite Electrolytes for All-Solid-State Batteries through Structural Optimization and Doping
0190	PC-A27	Hsin-Chi Liu	Localized High-Concentration Electrolytes for High-Voltage Anode-Free Lithium Metal Batteries
0225	PC-A40	Yu-Chieh Su	Three-dimension metal foam applied to anode free battery
0247	PC-A44	Shun-Jhih Yang	Anisotropic Ionic Transport in PEO-Based Solid Polymer Electrolytes
0254	PC-A45	Afif Thufail	New Prelithiation Strategies of SiO _x Anode by Surface Prelithiation for Improving Energy Density and High-rate
0303	PC-A49	Han-Pin	Porosity and Tortuosity Analysis on Composite Cathode for All-Solid-State Battery By Impedance Spectroscopy and CT Scan

Topic B: Conversions

Paper no.	Poster no.	Name	Title
0056	PC-B02	Lee, Yi-Ying	Molybdenum-Preintercalated Nickel Hydroxide as a Catalyst for Urea Electrolysis
0336	PC-B19	Chang-Ming, Wu	Electrodeposition of Iridium on Tungsten Substrates: A High-Efficiency PTE for Water Splitting
0325	PC-B20	Varad Modak	Harnessing Ni SACs on cogently designed S-doped nanofiber-based catalysts for selective CO ₂ electroreduction

Topic C: Fast Energy Storage Materials and Devices

Paper no.	Poster no.	Name	Title
0184	PC-C08	You Zher Yu	Metal ratio and bimetal nanoarchitectonics of ammonia-based fluoride complex induced nickel hydroxide and manganese oxide composites as active materials of an energy storage device
0237	PC-C12	NINDITA KIRANA	Hierarchical Carbon Composite Electrodes for High-Reliability Supercapacitors

Topic D: Basic Electrochemistry

Paper no.	Poster no.	Name	Title
0042	PC-D04	Shuo-En Yu	DC-pulse atmospheric-pressure plasma jet (APPJ) processed electrochemically deposited NiFe/carbon paper (CP) for anion exchange membrane water electrolysis (AEMWE)
0108	PC-D09	Chieh Li	Development of Cu Nanowire modified Gas Exchange Membrane for Anti-biofouling Dissolved Oxygen sensor
0166	PC-D18	Ching-Tzu Liu	Water-Based Conductive Ink for Handmade Carbon-Printed Electrodes to Electrochemical Biosensing of CA-125
0194	PC-D19	羅友捷	Exploration of Charge Transport in Electrochemical Transistors and Thin Film Batteries

Topic E: Photoelectrochemistry

Paper no.	Poster no.	Name	Title
0317	PC-E07	Yen Ju Chu	Corrosion study of electroplated copper with different microstructures and crystal orientations in alkaline medium