

壁報得獎類: 觸媒及反應工程

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優勝	P1-6-012	Development and Characterizations of Halide Type Solid Electrolyte Composite Materials in Solid-State Lithium-Ion Battery	Hao-wen Liu, Wei-Hsiang Chen, Chu-Chun Lin, Chi-Che Tsai, Chia-Chin Chen, Nae-Lih Wu
優勝	P1-6-017	The Application of Furan-Derived Materials for Electrochromism	王御丞, 吳嘉文, Eduardo C. Atayde Jr., 陳德謙
優勝	P1-6-035	Analysis of Polymer-based Ni-Rich Composite Cathode in All Solid State Li-Ion Batteries	廖晟宏, 陳嘉晉, 闕居振, 李文亞, 鄭如忠, 吳乃立

優勝	P1-4-003	Sustainable and Highly Efficiently Production of Hydrogen from Plastic Wastes by Recyclable MOF-derived NiO/CeO ₂ Catalyst	許長硯, 吳嘉文
優勝	P1-4-041	Transfer Hydrogenation of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran with Isopropanol over Cu-Pd/ZrO ₂ Catalyst	古浩銓, 龔子傑, 游文岳
優勝	P1-4-046	Diels-Alder Conversion of Acrylic Acid and 2,5-Dimethylfuran to para-Xylene over Heterogeneous Bi-BTC Metal-Organic Framework Catalysts Under Mild Conditions	Jyun-Yi Yeh, Season S. Chen, Kevin C.-W. Wu
優勝	P1-4-078	Copper-Exchanged Cerium-Modified Y-zeolite for Selective Catalytic Reduction of NO with NH ₃	Ming-Pei Lin, Soofin Cheng, Wen-Yueh Yu
佳作	P1-4-047	Selective Catalytic Oxidation of Ammonia over Ag/MnO ₂ : Effects of Support Structure on Catalytic Activity	邱德安, 林明霖, 許冠博, 游文岳

綠色化工技術及程序系統工程

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佳作	P1-5-037	光固化 3D 列印樹脂回收再利用	趙偉丞, 廖英志

電化學

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優勝	P1-6-080	Silicon-Graphite Anodes Enabled by Self-Assembly for Lithium-Ion Batteries	Shu-Jui Chang, Jannes Müller, Andrey Vinograd, Tobias Placke, Arno Kwade, Martin Winter, Bing-Joe Hwang, Nae-Lih Wu
佳作	P1-6-028	Synthesis and Characterization of PEO-PVdF based Polymer-Ceramic Composite for Lilon Solid-State Electrolytes	P. Senthil Kumar, Nae-Lih Wu , Yu-Han Lin, Hung-Chun Wu
佳作	P1-6-081	Surface Modification of Li-ion Battery Silicon-Carbon Anode for Enhancing Cycle Stability	陳彥丞, 張書睿, 吳乃立

熱力及界面工程

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優勝	P2-1-020	Constructing Lipid Bilayer-Coated Hydrogels for Bio-Applications	金哲綸, 趙玲
優勝	P2-1-037	Investigate the Effects of Lipid Shape and Substrate Curvature on Spontaneous Extension of DNA on Lipid Bilayers by Brownian Dynamics Simulation	蔡翌凡, 姜奕安, 謝之真
佳作	P2-1-040	高固含量 β-磷酸三鈣穩定奈米懸浮水溶液製備及其於人工韌帶之應用	莊凱文, 邱鈺聚, 廖英志

生化及生醫工程

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優勝	P2-2-041	Accelerating DNA Extension on Lipid Bilayers by Electrophoresis for Rapid Gene Mapping	段沅宏, 梁祐榮, 謝之真
佳作	P2-2-040	Porous Poly-p-xylylene Coating with Encapsulated Biomolecules for Application in Tissue Engineering	Jane Christy, Hsien-Yeh Chen
佳作	P2-2-057	Synthesis of Pd@VNU-2 and its Application in Radiation-Photothermal Combined Cancer Therapy	余祐陞, 吳嘉文

佳作	P2-2-042	Vapor-Phased Construction of Multifunctional and Tunable Bone Tissue Products	Shu-Man Hu, Yu-Ming Chang, Nai-Yun Chang, Hsien-Yen Chen
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材料在化工上的應用

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優勝	P2-3-084	Regulating Ion Transport in Polyelectrolyte Bilayers Modified Conical Nanopores	Tien-Juin Liu, Tianji Ma, Chih-Yuan Lin, Sé bastien Balme, Jyh-Ping Hsu
優勝	P2-3-132	A Promising Ionic Diode Membrane Enabled by Metal-Organic Framework and Covalent-Organic Framework	韓柏群, 葉禮賢, 吳嘉文
佳作	P2-3-027	Ultrafast and Continuous Synthesis of Metal-organic Framework with Microfluidic System	吳希彥, 吳嘉文
佳作	P2-3-083	Engineering Metal-Organic Frameworks (MOFs) Membranes for Gas Separations	蔡心瑀, 康敦彥
佳作	P2-3-106	In-situ Aqueous Synthesis of Continuous Phase MIL-101(Cr) Hollow Fiber Membranes for Dyes Nanofiltration	賴煜承, 陳建祥, 童國倫

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優勝	P3-7-008	Efficient and Novel Method for PET Recycling Process	焦鈺雯, 廖威勝, 吳嘉文
優勝	P3-7-034	Effective Contact of Planar Thylakoid Membranes with Electrodes for Stable Photocurrent Generation and High Energy Conversion Efficiency	楊皓欽, 張郁姍, 趙玲

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優勝	P3-8-009	ANN Prediction of Particle Segregation Trajectories in a Rotating Drum with Inner Segmentation Ring Pair	劉家佑, 黃安妮, 郭修伯
佳作	P3-8-019	Cell Membrane Electrophoresis to Measure the Diffusivity of Transmembrane Proteins	黃博銓, 黃信翰, 趙玲
佳作	P3-8-023	Theoretical Modeling of Nanopore-based Detection of Trace Concentration of Cesium Ions in an Aqueous Environment	楊詠琪, 徐治平