

壁報論文展覽競賽 得獎名單

壁報論文展覽競賽

佳作

2025 TwAChE
11.29-11.30

場次	發表者	演講題目
SP1-006	王婕羽 國立中央大學	Prelithiation of Silicon Oxide Anodes in Lithium-Ion Batteries via Lithium-Biphenyl Solution: Mechanism and Optimization Strategies
SP1-007	Zi-Yu Chen University of Taipei	PEDOT-functionalized CuO Nanowires for Photocatalytic CO ₂ Reduction
SP1-013	葉信佑 國立中興大學	Investigation of corrosion inhibition of copper with ionic liquids in alkaline environment
SP1-015	何建霖 明志科技大學	利用鈣鈦礦奈米晶與聚酰胺酸組成的浮閘層實現對電晶體記憶體光響應行為的調控
SP1-021	陳冠寧 國立中興大學	Co-Assembled Silane Monolayers for Modified Hole Transport Layers in Perovskite Solar Cells
SP1-024	蔡依伶 國立臺灣科技大學	Pure-Red Emission Enhancement in CsPb(Br/I) ₃ Quantum Dot PeLEDs through Surface Defect Passivation and Interfacial Engineering
SP1-027	范采誼 中原大學	Phenolic Resin-Based Surface Coating to Mitigate Volume Expansion and Enhance the Cycling Stability of Micron-Sized Silicon Anodes in Lithium-Ion Batteries
SP1-028	郭輝南 國立臺灣大學	Enhancing Electron Extraction in Thylakoid-Based Anodes through the Integration of PCBM as an Electron Transport Layer

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SP1-034	郭子毓 國立聯合大學	Pt-doped high-entropy alloys as superior bifunctional electrocatalyst for ammonia oxidation reaction and hydrogen evolution reaction
SP1-044	Wen-Ting Li National Taiwan University	Behavior of Chitosan Modified Electrodes Affecting Current Signal Variation
SP1-046	Chi-Lun Chuang National Cheng Kung University	Two-Dimensional Zirconium-Based Metal–Organic Framework/ Graphene Oxide Composites with Ultrahigh Proton Conductivity
SP1-048	Ming-Cheng Hsiao National Taiwan University of Science and Technology	Functional Additives for Stabilizing Interfaces in High-Voltage Ni-Rich Cathodes toward Enhanced Electrochemical Performance
SP1-050	施承穎 National Taiwan University of Science and Technology	Utilizing high active material in Lithium- Sulfur Batteries :enhance long cycle retention at low C-rate
SP1-052	林宸緯 國立臺北科技大學	Electrolyte-Gated Organic Field-Effect Transistors with Artificial Synapse Behavior Applied for Neural Network Training and Optoelectronic Neuromorphic systems
SP1-060	于大鈞 國立清華大學	Post-Treatment of MAPbI ₃ Films for the Fabrication of Mixed-Cation Perovskites Solar Cells
SP1-068	賴亭如 國立清華大學	Green Process for Perovskite Solar Cells Fabrication via Electrodeposited Lead Iodide and Methylamine Gas Treatment

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SP1-069	洪振晏 淡江大學學校財團法人淡江大學	高熵普魯士藍類似物之合成與電化學性質比較
SP1-077	Ching Chao National Taiwan University	Electrolytically Ionized Chemical Mechanical Planarization for Advanced Interconnects
SP1-085	郭祐丞 國立成功大學	Design Guidelines for Connecting Tubes Derived from Modeling to Optimize Capacity Retention in Vanadium Flow Batteries
SP1-090	詹凱雯 國立臺北科技大學	π -Li ⁺ Interaction Mechanisms in Anthracenemethanol-Modified PPEGMA Polymer Electrolytes for Ionic Conductivity Enhancement
SP1-094	蔣欣芸 東海大學	Binder-Free 1D-2D Ni ₃ S ₂ Heterostructures Enabling High-Performance Supercapacitors and MOR Catalysis
SP1-099	陳韻心 國立臺灣大學	CO ₂ Conversion Strategies: Electrocatalytic Reduction and Hydrogenation Using Novel Transition Metal Catalysts
SP1-100	林佑誠 元智大學	高熵合金奈米粒子負載於不同碳載體上作為質子交換膜水電解之電催化劑
SP1-102	宋仁奕 元智大學	NASICON複合固態電解質於三元鋰電池以實現高倍率性能與優異循環穩定性
SP2-001	Nguyen Phuc Thien Ngan National Tsing Hua University	CaEDTA - Acetic Acid Mediated Gelation of Alginate for Rapid Spheroid Formation

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SP2-006	Chao-Tzu Teng National Central University	Zwitterionic Hydrogel Coatings via Silatrane Chemistry
SP2-010	Tsung-Yu Tseng National Cheng Kung University	Impact of Exosomes from Human Cord Blood Derived Endothelial Progenitor Cells on the Growth and Differentiation of Human Hematopoietic Stem Cells
SP2-022	劉宇豪 國立清華大學	Development of a STAS-on-a-Chip for Investigation of Lung Cancer Metastasis
SP2-029	陳瑀婕 國立中興大學	設計褐藻醣膠及單寧酸修飾之有機金屬奈米膠囊傳輸喜樹鹼應用於化學/化學動力學聯合療法治療非小細胞肺癌
SP2-033	張耘瑄 國立成功大學/國立台東大學	Targeted Nucleic Acid Nanomaterials for Enhanced Antibacterial Efficacy
SP2-041	Yi-Ru Liao National Cheng Kung University	Modulating Encapsulation Efficiency and Drug-Release Behavior of Cationic Vesicles by Unsaturated Fatty Acids
SP2-044	Yi-No Hu Chung Yuan Christian University	Thermo-responsive Polypropylene Membranes for Efficient Leukocyte Enrichment
SP2-047	張尹薰 國立中興大學	具備可自產H ₂ O ₂ 及三重GSH消耗功能之一氧化氮傳輸系統以實現主動腫瘤靶向之化學動力及NO氣體複合療法
SP2-048	林威叡 國立臺灣大學	Coupled Antifouling and Photodynamic Antibacterial properties Against Catheter-Associated Infections

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SP2-049	黃妤庭 國立清華大學	Tumor-on-a-Chip Model of Breast Cancer Dormancy within the Bone Marrow Niche
SP2-056	鄭憲 國立成功大學	Controlled Drug Release Behavior of Positively Charged Catanionic Vesicles Associated with Hydrophobically Modified Polynucleotides
SP2-060	黃郁仁 國立臺灣大學	Organ on a Chip: Outer Blood-Retinal Barrier Model for Dry AMD Analysis
SP2-075	鍾紹楨 大同大學	海藻酸鈉水膠負載含薑黃素之檸檬酸交聯中空玉米蛋白奈米粒子複合載體系統之藥物釋放行為
SP2-079	黃弘宇 國立雲林科技大學	草酸共著色花青素負載於四級銨鹽化聚乙二醇水凝膠作為智慧型傷口敷料
SP2-084	吳孟謙 元智大學	麥渣製備碳量子點對生產聚羥基烷酯影響之探討研究
SP2-085	姜昱伶 國立宜蘭大學	微波冷凍乾燥與超音波萃取於薑黃素製程之研究
SP2-089	Wei-Chun Lu National I-Lan University	Feasibility Study of Combined Abiotic and Biotic Strategies to Enhance the Redox and Neuroprotective Potentials of Anthocyanin-Rich Herbal Extracts for Disease Treatment
SP2-098	Shi-Zhen Hong National Ilan University	Feasibility Study of Electrochemical Processing for Value-Added Production of Traditional Chinese Medicine

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SP2-099	王濰安 國立臺北科技大學	Exosomes of stem cells from the apical papilla treat PC12 cells against glutamate-induced inflammation and excitotoxicity via regulating γ -aminobutyric acid signaling pathway
SP3-006	Hsiao-Te Liu National Taiwan University	Distillation retrofit: stacked side-stream sequences vs. dividing-wall columns
SP3-009	陳宥縈 國立臺灣科技大學	變壓蒸餾與萃取蒸餾系統的製程彈性度分析與比較
SP3-011	施東和 國立臺灣大學	Machine Learning Assisted Single-Tilt Approach to CryoET Reconstruction for Minimizing Electron Dose
SP3-012	方際展 國立臺灣大學	Machine Learning for Quality Management of Dispensing Printing
SP3-017	林芷琪 國立臺灣大學	Design and Techno-economic Assessment of Perhydro-benzyl-toluene as a Hydrogen Carrier for International Renewable Energy Supply Chain
SP3-021	呂學致 國立中央大學	Machine Learning Models Incorporating Sigma Profiles of Metal Nodes for Gaseous Adsorption Properties in Metal-Organic Frameworks
SP3-027	洪妤玟 國立臺北科技大學	Physics-Informed Deep Learning Approaches for Pipeline Anomaly Detection and Diagnosis
SP3-037	陳叡賢 國立成功大學	Interactions between Biopolymers and Ion Pair Amphiphile Bilayers

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SP3-043	Bo-Long Lin National Cheng Kung University	Process Design of Oxy-Fuel Combustion Combined Cycles for Carbon Capture Using Lng Regasification
SP3-053	陳志暘 國立成功大學	Application of Lead-Free Organic Zinc Halides in Non-Volatile Flash Memory
SP3-054	陳玥霓 義守大學	基於MXene導電奈米複合纖維於機器人皮膚之感測元件應用
SP3-055	紀岱岑 國立臺北科技大學	Lithium-Ion Solid-State Electrolytes for Bio-Inspired Neuromorphic Transistors and Deep Learning Network Computation.
SP3-056	Yun-Hsuan Lin National Taiwan University	Wearable Wireless Printed Strain Sensor for Early Extravasation Detection
SP3-061	黃韻安 國立臺灣大學	Adhesive PAM/PEI Hydrogel for Stable Sensor-Skin Interface in Wearable Patches
SP3-063	黃柏均 國立中正大學	Silver Nanowire Co-Deposition and Elastic Polymer Protective Layer for Enhancing Conductive Fiber Strain Sensors
SP3-070	Xiang-Ren Chen National Taiwan University	Interfacial Engineering of MXene/Conjugated Polyelectrolyte Bilayer Films for Thermoelectric Applications
SP3-074	林佩岑 國立宜蘭大學	Nanofiltration Performance of Zwitterionic Graphene Quantum Dot-Polyamide Composite Membrane for Separation of Dye/Salt Solution

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SP3-077	蔡佩怡 國立成功大學	Unusual Dynamic Molecular Transport on Membrane-Modified Microelectrodes Subjected to AC Electric Fields
SP3-080	邱慶維 國立臺灣大學	Separation Process and Retention Mechanisms of Phenolic Compounds in Bamboo Pyroligneous Acid
SP3-082	洪雋杰 國立成功大學	Serpentine Micromixer-Assisted Pickering Emulsion of Algal Oil Stabilized by Calcium Carbonate Nanoparticles
SP3-089	官俐紋 國立臺灣大學	Constructing Continuous Lipid Membrane Platforms for Membrane Protein Collection
SP3-095	Chang, Rui-You Chung Yuan Christian University	One-step Zwitterionization of PVDF Microfiltration Membranes to Mitigate Biofouling
SP3-106	楊鈺祈 國立宜蘭大學	Digital Manufacturing of MOF Reactors and Membranes via In Situ Growth on 3D-Printed Metal-Based Scaffolds
SP3-111	李昀襄 國立清華大學	TSV矽穿孔針對不同深寬比的不同的製程條件的多因子分析
SP3-114	張博閔 國立臺北科技大學	稀土改質增益抗菌與自修復之感測凝膠
SP3-116	Tsung-Chi Li National Taipei University of Technology	Effects of Stirring Parameters and Composition Ratios on the Morphology and Degradation of Poly(lactic acid)/ Polycaprolactone Microspheres

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SP4-001	胡品揚 國立臺灣大學	Sustainable Coating Formulation for Laser Metallization Patterns on Glass Substrates
SP4-009	賴冠霖 國立成功大學	Chiral Photomemory based on Chirality Transfer/Chiral Molecule Heterojunction
SP4-013	蔡昀潔 國立成功大學	阻燃型磷腈系列交聯材料之開發
SP4-019	張堂瑋 國立高雄科技大學	新型可見光TypeI/TypeII複合型三苯胺肟酯光起始劑的合成及光聚合性質研究
SP4-021	陳佩瑜 國立成功大學	Development of Biobased Photosensitive Polyimides Derived from Isosorbide for Negative-Type Photoresists
SP4-023	鄭立楷 國立成功大學	Development of (CQD&Pt)@MOF Composite Catalyst for Photocatalytic Hydrogen Evolution
SP4-032	戴瑞君 南臺科技大學	水熱合成具可見光響應的Ti ³⁺ 自摻雜黑色二氧化鈦
SP4-041	游亞辰 國立成功大學	Study on Direct Carbonylation of Glycerol to Organic Carbonates Catalyzed by Zinc Oxide/Zirconium Oxide
SP4-042	梁又 國立清華大學	Sustainable Continuous Synthesis of Biomedical-Grade Metal-Organic Frameworks Using an Improved Droplet-Based Microfluidic Reactor

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SP4-047	楊鎔澤 國立清華大學	通電對Ag-Cu-Sb合金的微結構與其Ni基材界面反應
SP4-048	黃韋翔 國立雲林科技大學	Evaluating the catalytic performance of tungsten-doped nickel hydroxide in urea electrolysis
SP4-059	張景鈞 國立成功大學	路易士酸位點與乙醇脫水製備乙烯之關聯性探討
SP4-068	Kim Ngan Ngo Ming Chi University of Technology	Preparation of calcium-organic metal frameworks for biodiesel synthesis
SP4-069	陳盈瑾 逢甲大學	Photodeposition of Nd on TiO ₂ for Photocatalytic Reduction of Carbon Dioxide
SP4-075	姚舜 國立清華大學	Investigation of TiO ₂ Adhesion-Promoting Layers for Electroless Copper Deposition on Different Glass Substrates
SP4-076	李佳臻 國立臺灣科技大學	低溫電漿氧化4H-SiC過程中SiO _x C _y 鍵結之消長及其對MOS界面缺陷密度之效應
SP4-080	Tien-Yu Yang National Tsing Hua University	CO ₂ Absorption-Mineralization for Calcium-Looping Integrated with Methane Dry Reforming
SP4-086	朱庭萱 東海大學	Ni摻雜Fe-N-C作為質子交換膜燃料電池的陰極觸媒

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SP4-088	曾千芊 國立雲林科技大學	Broadband Self-Powered Vis–NIR Photodetectors Using Cs _{0.33} WO ₃ with AgNWs and Upconversion Nanoparticles
SP4-090	王士宇 明志科技大學	Green Catalytic Applications of LDH-Derived Oxides with Tunable Composition and Thermal Treatment in Biodiesel Transesterification
SP4-094	曾建皓 國立清華大學	Controllable Synthesis of High-Entropy-Alloy Nanodendrites for Alkaline Hydrogen Evolution Reaction
SP5-007	曾喆騷 Ming Chi University of Technology	SERS Platform Based on Au–Se Nanowires Coupled with Machine Learning for Trace Detection of Indigo Carmine in Foods
SP5-009	呂皓雲 國立臺北科技大學	混胺系統於醇胺-醇醚-水相分離式二氧化碳吸收劑之設計與優化
SP5-014	陳禹安 國立成功大學	H ₂ -detectable artificial sensory synapse based on gasochromic film and photomemory
SP5-015	Ryuki Sakamoto Kansai University, Japan	Production and Characterization of Oxidized Cellulose from Lignocellulosic Biomass Using Hydrogen Peroxide
SP5-022	林靜宜 義守大學	新型微結構調控PLA/RHA複合奈米纖維於油水分離環境永續吸附研究
SP5-024	王碩暉 國立臺灣科技大學	Plasma-Engineered Photo-Synergistic Multidimensional Hybrid Matrix for Water and Environmental Purification

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SP5-031	黃鈺偉 國立臺灣大學	Sustainable Insect Biorefinery: Process Simulation of Biofuel Production from Black Soldier Fly
SP5-036	黃舒靖 國立中興大學	化學洗滌及生物氧化應用於沼氣脫硫的理論解析與驗證
SP5-039	Yung-Hsin Hsieh National Taiwan University	Machine Learning-Assisted Design of Coke-Resistant Catalysts for Dry Reforming of Methane
SP5-041	郭明翰 國立宜蘭大學	Valorization of Agricultural Waste through Advanced Manufacturing: 3D Printing of Tannin-Derived Porous Carbon Materials for Environmental Pollution Control
SP5-042	林泯呈 大同大學	月桂酸與甘油增塑對甲基纖維素/玉米醇溶蛋白複合薄膜機械性質及保鮮性能之影響
SP5-047	蔡景崧 明志科技大學	Solid-base Catalysts from Rice Husk Waste for Biodiesel Production
SP5-064	李曼華 國立清華大學	Ni/CoGe界面反應與Co-Ni-Ge三元系統相平衡
SP5-066	張繼謙 國立中興大學	Silatrane-functionalized nanolayer as a diffusion barrier for silicon/copper heterojunctions
SP5-067	邱子杰 國立清華大學	Microfluidic Synthesis Integrated with Real-time Analytical Technologies for Controlled Hydrogel Production

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SP5-068	Yu-Wen Wang National Chung Hsing University	Tunable Cicada Wing-Inspired Cone-Shaped Structure Arrays for Broadband Antireflection at any Incident Angle on Demand
SP5-072	李靜欣 國立清華大學	Rapid Detection of Impurity Particles in Etching Solutions Using Electrospray-Differential Mobility Analysis
SP5-076	郭昱熒 國立中正大學	Development of Anti-Fouling Conductive PU Fibers via In Situ Silver Nanoparticle Deposition and Zwitterionic Polymer Grafting
SP5-078	Hong-Yi Chao National Taiwan University of Science and Technology	Ab Initio-Guided Design of Dual Solid-State Electrolytes for All-Solid-State Lithium Batteries
SP5-085	吳禹謙 國立成功大學	Identifying Elastic Network Parameters via Physics Informed Neural Network

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SP1-001	Jia-Sheng Lin National Tsing Hua University	Zn@ZFO as a superior zinc metal battery
SP1-004	Jing-Ting Lin National Taiwan University	UiO-Based MOF Electrochemical Sensor for the Selective and Quantitative Determination of Perfluorobutanesulfonic Acid (PFBS)
SP1-008	許閔茹 國立高雄科技大學	鉑碲釭奈米棒作為電觸媒催化與感測葡萄糖氧化反應
SP1-026	葉家孜 中原大學	Synthesis of Nanostructured $\text{Fe}_3\text{V}_3\text{O}_8$ Anode Material via Microwave-Assisted Hydrothermal Method and Its Electrochemical Characterization for Sodium-Ion Battery Applications
SP1-029	楊怡君 國立清華大學	Electro-Driven Self-Assembly Interphase Unlocks High Energy and Power Densities in Zinc-Ion Batteries
SP1-042	曾柏睿 國立臺灣大學	Chlorinated Li_2TiF_6 with Enhanced Ionic Conductivity and Retained Stability for the Cathode Interface of Lithium Tantalum Oxychloride Electrolytes
SP1-054	Tzu-Hsiang Lung Chung Yuan Christian University	Enhancing the electrochemical stability of $\text{Li}_{1+x+y}\text{Al}_x\text{Ti}_{2-x}\text{Si}_y\text{P}_{3-y}\text{O}_{12}$ by altering with $\text{Li}_6\text{PS}_5\text{Cl}$ composite solid electrolytes for Lithium All Solid State Batteries
SP1-062	Duc-Anh Le National Tsing Hua University	Enhancing MAPbI3 Perovskite Performance by Cs/Br Doping and Crown-ether Passivation
SP1-066	薛莉婷 國立成功大學	Interfacial Engineering with Tetramethylammonium Iodide for High-Efficiency FAPbI3 Perovskite Solar Cells

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SP1-071	江苙寬 中原大學	P2/O3 Biphasic $\text{Na}_x\text{Cu}_{0.2}\text{Fe}_{0.4}\text{Mn}_{0.4}\text{O}_2$ Layered Oxide Cathodes via Oxalate Co-precipitation for High-Capacity Sodium-ion Batteries
SP1-082	Fadila Arum Rhamadani National Taiwan University	Regulating the Local Coordination of Cobalt Single Atom Catalyst for Improved Electrochemical CO_2 Reduction Reaction
SP1-088	Shin-Chiao Lee National Tsing Hua University	Volcano-Theory-Inspired Design of Multimetallic Electrocatalysts for Durable Hydrogen Production
SP1-089	Hany Khammar National Taiwan University	A simple, cost-effective, and efficient strategy to enhance NCM811 cathode performance for lithium-ion batteries
SP1-093	Zhi-Ting Huang Tunghai University	Non-flammable and flexible quasi-solid-state electrolytes derived from deep eutectic solvent-filled PVDF-HFP membranes for high-voltage supercapacitors
SP1-098	蔡昀珊 國立清華大學	Simultaneously Tailoring Hydrogen and Hydroxide Intermediate Binding via Quaternary Alloying for Enhanced Alkaline Hydrogen Oxidation
SP2-004	Shirish Killedar National Tsing Hua University	Shape Dependent Endocytosis of Iron-Containing MOF's for Highly Efficient Pancreatic Cancer Therapy
SP2-008	Shun-Hao Chuang National Taiwan University of Science and Technology	Heparinized Agarose Microspheres for High-Purity Exosome Affinity Purification and Myocardial Infarction Repair
SP2-016	黃芝逸 國立清華大學	Targeted Exosome-Engineered Magnetic Nanoparticles for an Immuno-Infiltrative Drug Screening Platform in Pancreatic Ductal Adenocarcinoma

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SP2-024	Cheng-Yueh Lin National Tsing Hua University	Oral Magnetoelectric Neuromodulation as a Noninvasive Therapy for Parkinson's Disease
SP2-030	倪翊涵 National Taiwan University	Development of a Label-Free SPR Platform for Measuring Transport of Small-molecules through Cells
SP2-037	施柏丞 國立中興大學	Copper Peroxide-Covered Prussian Blue Nanozymes Decorated with Polypyrrole and Fucoidan for Tumor-Targeting Photothermal and Chemodynamic Cancer Therapy
SP2-046	Jen-Yi Lee Chung Yuan Christian University	Thermostable Zwitterionic Copolymer-Modified PVDF Membranes for Bioinert Applications
SP2-053	黃愉婷 國立臺灣大學	Mechanical and Electrical Enhancement of Gelatin-Based Hydrogels for Optic Nerve Repair Using Blended Polydopamine Hybridized PEDOT Nanoparticles
SP2-067	黃柏文 國立臺東大學	草本萃取物對臺灣缺蠟之誘引與忌避效果研究
SP2-071	蔡旻蓁 國立成功大學	Sustained Transdermal Delivery of Finasteride and Curcumin via Bilateral Microneedles for Androgenetic Alopecia Therapy
SP2-072	顧詠尹 國立臺灣大學	DNA Separation through Normal Stress-Mediated Electrophoretic Velocity Variations: A Brownian Dynamics Simulation

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場次	發表者	演講題目
SP2-073	魏浩翔 南臺科技大學	以大腸桿菌建構 2'-岩藻糖基乳糖與二岩藻糖基乳糖生物合成菌株
SP2-087	Ha Do National Taiwan University of Science and Technology	Application of Fluorescent Nanodiamond Technology for the Development of Cell tracking probe in Cancer Diagnosis
SP2-092	Shin-Ru Leng National Ilan University	Enhancing Neuroprotective Potential of Perilla frutescens through Serially Acclimated Fermentation: A Kinetic Analysis of Acetylcholinesterase Inhibition
SP2-096	Hong-Nhung Nguyen National Tsing Hua University	Oral β -Glucans-Functionalized Dopamine Prodrug Nanoparticles for Targeted Management of Parkinson's Disease
SP3-010	陳育昇 國立臺灣科技大學	側流設計之轉酯化反應蒸餾製程節能評估與分析
SP3-020	Daniel Yu 國立臺灣科技大學	MXene-Specific Machine-Learned Potential — A DFT Surrogate for Structure Relaxation and Surface Chemistry
SP3-025	李仲倫 國立臺灣科技大學	Predictive Modeling of Cation Ordering in Ni-Rich NMC Cathodes Using Monte Carlo Sampling and Machine-Learning Interatomic Potentials

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SP3-034	林宣邑 國立臺灣大學	Investigation of the Promotional Effects of Methionine on the Nucleation of Carbon Dioxide Hydrates via Molecular Dynamics Simulation
SP3-035	蕭力維 國立臺灣大學	Critical Role of Interfacial Mass Transfer in Membrane Gas Permeation
SP3-036	余耀瑄 國立臺灣大學	Challenges in Incorporating Uncertainty Quantification into Molecular Multi-Objective Optimization
SP3-046	曾彥揚 國立清華大學	Synergistic Flexibility and Corrosion-Resistant of Ag ₂ S _{0.5} Se _{0.5} Semiconductors Enabling Zinc Metal Batteries for Next-Generation Wearable Devices
SP3-047	陳冠霖 國立臺灣大學	Direct Short-Wave Infrared Photothermoelectric Devices and Detection Enabled by Robustly Doped Proquinoidal Conjugated Polymers
SP3-048	葉思宜 國立中興大學	Self-Assembly of Land Snail-Inspired Pillar-Like Structure Arrays for Switchable Adhesion
SP3-052	郭雲程 國立成功大學	軟性側閘極有機電化學電晶體在反向器與多巴胺感測之應用
SP3-058	許孟楷 國立臺灣大學	A Binding Framework Integrating Multiple Physical Effects: Capturing Multivalent Interactions at Low Receptor Densities

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SP3-067	陳映汝 國立勤益科技大學	Designing Low-Dielectric Polyimide Composites via Hollow Glass Microsphere Dispersion
SP3-079	陳順慶 國立成功大學	Unique AC Electrothermal Flows Due to Joule Heating in Electric Double Layer Charging
SP3-081	Saengsawang, Boonyawee National Cheng Kung University	Zirconium-Based MOF/Corn-cob-Derived Biopolymer Composites for Enhancing Biogas Purification via Pressure Swing Adsorption
SP3-083	陳芋誼 國立中興大學	Formosan Subterranean Termite-Inspired Unidirectionally Inclined Conical Structure Arrays as Superhydrophobic/Anti-Fogging Coatings
SP3-099	鍾尹軒 國立臺灣大學	Hydrophobicity and Competitive Adsorption on PS-DVB: Implications for Trace Impurity Enrichment from Electronic-Grade Sulfuric Acid
SP3-100	李松凝 國立中興大學	高能效/低能耗之薄膜蒸餾乳酸濃縮技術
SP3-107	Ming-Jiun Tsai 國立宜蘭大學	Digital Fabrication of Diatomite-Based Inorganic Membranes via DLP 3D Printing for High-Flux Microfiltration

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SP4-006	季璇 國立中興大學	Study on Weevil-Inspired Color-Switchable Photonic Materials
SP4-008	彭鈺棋 國立臺灣大學	Enhancing the Thermoelectric Performance of Flexible Ag ₂ Se Substrates via Polyelectrolyte Heterointerface Engineering
SP4-018	黃宸祐 國立高雄科技大學	Salt-modulated hydrophobic association zwitterionic hydrogels
SP4-024	Jen-Yu Chang National Taiwan University	Study of Oxygen Reactivity on Ag/ α -MnO ₂ Catalysts
SP4-025	Chiung-Wen Chang National Tsing Hua University	High Performance Anion Exchange Membrane Water Electrolysis Driven by Atomic Scale Synergy of Non-precious High Entropy Catalysts
SP4-031	謝乃雯 國立成功大學	Synthesis of Three-Component Cu ₂ O/ZnO/Ag Nanocrystals Heterogeneous Photocatalysts with High Reactivity and Stability for Dye Reduction
SP4-046	林禹辰 國立臺灣大學	Combining Hydrophilic and Hydrophobic Zeolites to Enable Sorption-Enhanced CO ₂ Hydrogenation to Methanol

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SP4-053	謝琚如 逢甲大學	Cu foam@Cu ₂ O/Cu ₂ S/ZnS as Immobilized Photocatalysts with High H ₂ Generation Performance
SP4-058	翁雅梅 國立成功大學	Photoluminescent sensing enhancement in terbium-modified two-dimensional zirconium-based metal-organic frameworks through functionalizing charged ligands
SP4-066	黃煒倫 國立成功大學	Tailoring ligand composition in Mixed-Ligand MOFs for efficient photocatalytic NOx removal
SP4-073	顏聆倫 國立臺灣科技大學	4H-SiC磊晶片結構缺陷對少數載子復合之影響
SP4-082	史筱萱 國立清華大學	Understanding Methane Reforming Catalyzed by NiPd-ZrO ₂ Nanostructure for Reduced-carbon Hydrogen Production
SP4-084	陳幼軒 國立清華大學	Development of Nanostructured Particles for Low-temperature Catalysis of Formaldehyde Oxidation
SP4-087	趙孝元 國立臺灣大學	Balancing Cu loading and dispersion on Cu/ZnO/CeO ₂ catalyst for enhancing methanol production in ethanol-assisted CO ₂ hydrogenation
SP4-095	葉芮萍 國立成功大學	Plasma-Assisted Selective Oxidation of Methane to Methanol over Cu-CHA Zeolite Catalysts
SP5-002	黃彥維 國立臺灣科技大學	Molybdenum-based catalysts in synergizing electrochemical green ammonia and carbon dioxide capture technologies for the application of fertilizers

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SP5-003	邱英齊 國立臺灣大學	Oxidative Fast Pyrolysis of Rice Husk in Fluidized Bed Reactor: Effect of Oxygen Concentration
SP5-017	蘇唯愷 逢甲大學	Effects of ionic liquids on the Cr ⁶⁺ reduction and dye degradation performance of Bi ₂ WO ₆ -based photocatalysts
SP5-025	林信華 國立中興大學	Self-Assembly of Serpent Coral-Inspired Hierarchical Structures for Heat Dissipation
SP5-029	Yu-Ming Chuang National Cheng Kung University	Composite Coatings of Decolorized Coffee Waste and Porous PLA for Enhanced Daytime Radiative Cooling
SP5-035	陳彥璋 國立臺灣大學	Phosphorus-containing substances Sensing Technology Development
SP5-043	邱栩晨 國立宜蘭大學	Application of Biomass-Derived Carbonization Strategy in DLP-3D Printed TiO ₂ Reactors: Enhancing Structural Integrity and Surface Accessibility
SP5-045	莊瑋騏 國立成功大學	Bismuth ferrite/MXene-PVDF composite membrane for piezo-photocatalytic degradation of organic pollutants via persulfate activation
SP5-049	林郁霖 國立臺灣大學	Investigating the Surface Tension Anomaly in Ultradilute Aqueous Electrolytes Using Molecular Dynamics Simulations
SP5-055	余芝慧 國立中興大學	電沉積堆疊Sn/Bi雙層結構應用於低溫共晶焊接
SP5-061	林育萱 國立清華大學	Ni-Bi-Sb三元系統相平衡

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SP5-070	洪秀旻 國立臺北科技大學	Evaluating Feature Representations for Phase Equilibrium Modeling: A Comparative Study of Sigma Profiles, ECFP, and D-MPNN Embeddings
SP5-071	楊苡妘 國立臺灣大學	Temperature-Controlled Modulation of Membrane Protein Density in Giant Plasma Membrane Vesicles for Enhanced Biosensing Applications
SP5-086	王禹煊 國立成功大學	Regulation of Coacervate Formation by Salt Concentration and Polycation Molar Fraction: A Dissipative Particle Dynamics Simulation Study
SP5-089	吳笠聖 國立清華大學	Improving the condensation reaction of maleic anhydride and ethylene glycol using microfluidic technology