

學生壁報論文競賽

化工系館 自強校區 (5F)

壁報一

November 29  
09:50-11:30

海報編號	發表者	演講題目
SP1-001	Jia-Sheng Lin National Tsing Hua University	Zn@ZFO as a superior znic metal battery
SP1-002	陳芳琪 國立中興大學	Construction of ZIF-8@Au Electrode Materials for a Label-Free Electrochemical CA125 Immunosensor
SP1-003	Chia-Hsaing Lee National Chung Hsing University	Investigation of the Charge Storage Mechanism of NiCo@3D-Ni Electrode Materials in Electrochemical Energy Storage via X-ray Absorption Spectroscopy
SP1-004	Jing-Ting Lin National Taiwan University	UiO-Based MOF Electrochemical Sensor for the Selective and Quantitative Determination of Perfluorobutanesulfonic Acid (PFBS)
SP1-005	Trakarn Yimtrakarn National Cheng Kung University	Designing Non-aqueous Zn-ion Battery Cathodes via Vacancy Engineering of Manganese Hexacyanoferrate
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 <sub>2</sub> Reduction
SP1-008	許閔茹 國立高雄科技大學	鉑碲鈣奈米棒作為電觸媒催化與感測葡萄糖氧化反應
SP1-009	陳嘉雯 國立聯合大學	超聲噴塗製備氧化鎢電容性質研究
SP1-010	譚惠方 國立成功大學	Comparative Study of Lithium-Sulfur and Sodium-Sulfur Cells with Hot-Pressing Cathodes
SP1-011	鄧傑安 國立高雄科技大學	Studies on calcination of non-precious metal embedded into polyaniline-rGO catalyst as cathode catalyst for oxygen reduction reaction
SP1-012	張茗櫟 國立雲林科技大學	氫氧化鎳陰離子成份對電化學尿素氧化的表現影響
SP1-013	葉信佑 國立中興大學	Investigation of corrosion inhibition of copper with ionic liquids in alkaline environment
SP1-014	洪靖喬 國立中興大學	Synergistic Inhibition of Copper Corrosion by Natural Organic Compounds and Metal Ions
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
SP1-016	王奮覺 明志科技大學	三氟甲基修飾三苯胺-二苯并富烯化合物之電洞傳輸層於倒置鈣鈦礦太陽能電池之性能提升

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SP1-017	陳仕哲 國立高雄科技大學	鉑/碲奈米線催化與感測葡萄糖氧化反應
SP1-018	陳威宇 明志科技大學	用於光電晶體儲存裝置的生物質衍生水凝膠
SP1-019	Po-Ju Chiu Ming Chi University of Technology	Conjugated Terpolymer Strategy for Reducing Energy Loss in Ternary Organic Photovoltaics
SP1-020	陳昊賢 中原大學	Sustainable Porous Carbons from Biomass Wastes for Lithium–Sulfur Batteries: Comparative Study of Coffee Grounds, Water Caltrop Shells, and Sorghum Distilled Residues
SP1-021	陳冠寧 國立中興大學	Co-Assembled Silane Monolayers for Modified Hole Transport Layers in Perovskite Solar Cells
SP1-022	林資翰 元智大學	以統計分析角度篩選影響氧化鐵光催化效率關鍵參數
SP1-023	洪品恩 國立雲林科技大學	Ni-doped vanadium hexacyanoferrate as high-voltage material for aqueous zinc-ion batteries
SP1-024	蔡依伶 國立臺灣科技大學	Pure-Red Emission Enhancement in CsPb(Br/I) <sub>3</sub> Quantum Dot PeLEDs through Surface Defect Passivation and Interfacial Engineering
SP1-025	陳柏彰 國立臺灣科技大學	Enhanced Blue Perovskite Light-Emitting Diodes Based on CsPb(Br/Cl) <sub>3</sub> Quantum Dots via Ligand Passivation and Hole Transport Layer Engineering
SP1-026	葉家孜 中原大學	Synthesis of Nanostructured Fe <sub>3</sub> V <sub>3</sub> O <sub>8</sub> Anode Material via Microwave-Assisted Hydrothermal Method and Its Electrochemical Characterization for Sodium-Ion Battery Applications
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
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
SP1-030	蔡依辰 國立臺灣科技大學	LiTFSI-Doped NiOx Nanoparticles as Efficient Hole Transport Layers for Inverted Perovskite Solar Cells with Enhanced Fill Factor and Stability
SP1-031	曾郁晴 國立臺灣科技大學	Investigation of Quasi-2D CsPbI <sub>3</sub> Red PeLEDs with Enhanced Performance by Zwitterion Additives

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SP1-032	<b>Yu-Chong Lin</b> National Yunlin University of Science and Technology	VO <sub>2</sub> /MWCNT/GONR positive electrodes for ultrahigh-rate and long-life aqueous Zn-ion batteries
SP1-033	<b>羅定榆</b> 國立中興大學	NiCo 奈米顆粒修飾聚醯亞胺共價有機框架：高效且耐久的析氧反應電催化劑
SP1-034	<b>郭子毓</b> 國立聯合大學	Pt-doped high-entropy alloys as superior bifunctional electrocatalyst for ammonia oxidation reaction and hydrogen evolution reaction
SP1-035	<b>Cheng-Chung Chen</b> National United University	Anatase/rutile phase transition on fluorine-free TiO <sub>2</sub> nanotube arrays for photoelectrochemical H <sub>2</sub> O <sub>2</sub> sensing
SP1-036	<b>汪新宸</b> 國立中正大學	各式木材製備生質硬碳應用於鈉離子電池負極材料
SP1-037	<b>陳邦威</b> 國立中正大學	FeSbO <sub>4</sub> / Sb <sub>2</sub> O <sub>4</sub> 與還原氧化石墨(rGO)複合物作為鈉離子電池負極材料之研究
SP1-038	<b>Yung-Chi Teng</b> National United University	Noble-metal-free high entropy alloy as cost-effective electrocatalyst for alkaline seawater electrolysis
SP1-039	<b>張弘旻</b> 國立中山大學	Electrodeposition of NiFe-LDHs/Activated Carbon Composite Electrodes for High-Performance Supercapacitors
SP1-040	<b>邱宣璋</b> 國立中正大學	AlTiZrNbX (X=V, Ta, Hf, Mo)系統高熵合金之電化學腐蝕行為研究
SP1-041	<b>Den Harvey Balboa</b> Feng Chia University	Developments in Ni-based Anodes for Fuel Cell Applications
SP1-042	<b>曾柏睿</b> 國立臺灣大學	Chlorinated Li <sub>2</sub> TiF <sub>6</sub> with Enhanced Ionic Conductivity and Retained Stability for the Cathode Interface of Lithium Tantalum Oxychloride Electrolytes
SP1-043	<b>莊奇翔</b> 國立成功大學	Comparative Study of Facile Protective Coatings for Thin Lithium-metal Anodes in Lithium-Sulfur Batteries
SP1-044	<b>Wen-Ting Li</b> National Taiwan University	Behavior of Chitosan Modified Electrodes Affecting Current Signal Variation
SP1-045	<b>Chih-Ching Liu</b> National Taiwan University of Science and Technology / National Synchrotron Radiation Research Center	Composite Gel Polymer Electrolyte Membranes with Optimized Electrolyte Uptake for High-Voltage Lithium-Ion Batteries
SP1-046	<b>Chi-Lun Chuang</b> National Cheng Kung University	Two-Dimensional Zirconium-Based Metal-Organic Framework/ Graphene Oxide Composites with Ultrahigh Proton Conductivity

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SP1-047	方昱雯 國立成功大學	Copper-Iodide Complex-Based Binary Redox Electrolytes for High-Performance Direct-Contact DSSCs
SP1-048	Ming-Cheng Hsiao National Taiwan University of Science and Technology / National Synchrotron Radiation Research Center	Functional Additives for Stabilizing Interfaces in High-Voltage Ni-Rich Cathodes toward Enhanced Electrochemical Performance
SP1-049	高郁婷 National Taiwan University of Science and Technology	Thermal Polymerization of Dual-Salt Gel-Polymer/LPSC Composite Electrolytes for All-Solid-State Lithium Batteries
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
SP1-051	盧京含 National Taiwan University	Formic Acid Production through CO <sub>2</sub> Electrochemical Conversion and Bipolar Membrane Electrodialysis : Techno-Economic Analysis
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
SP1-053	Zhen-Xian Li National United University	Ru-decorated quaternary high-entropy alloy as an efficient electrocatalyst for alkaline seawater electrolysis at 1 A cm <sup>-2</sup>
SP1-054	Tzu-Hsiang Lung Chung Yuan Christian University	Enhancing the electrochemical stability of Li <sub>1+x+y</sub> Al <sub>x</sub> Ti <sub>2-x</sub> Si <sub>y</sub> P <sub>3-y</sub> O <sub>12</sub> by altering with Li <sub>6</sub> PS <sub>5</sub> Cl composite solid electrolytes for Lithium All Solid State Batteries
SP1-055	Yen-Chang Chen Chang Gung University	Exploring Lead-Reduction Strategies in Perovskite Solar Cells via Barium Substitution
SP1-056	許舒涵 逢甲大學	以低溫大氣電漿輔助氣溶膠沉積具可見光/近紅外光雙頻電致色變性質之 PEDOT 薄膜
SP1-057	黃廷豐 國立清華大學	Complex Transport and Recombination Mechanisms of Cu(I/II)-Based Electrolytes in Dye-Sensitized Solar Cells
SP1-058	鄧宏 明志科技大學	Interface Engineering of the Electron Transport Layer Using Organic Materials: Application and Performance Optimization in Hybrid Perovskite Solar Cells
SP1-059	劉姿妍 國立成功大學	Next-Generation Ternary Ion-Pair Redox Complex Electrolytes for Efficient Direct-Contact DSSCs under One-Sun and Indoor Lighting
SP1-060	于大鈞 國立清華大學	Post-Treatment of MAPbI <sub>3</sub> Films for the Fabrication of Mixed-Cation Perovskites Solar Cells

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SP1-061	Hsiu-Mei Yao National Cheng Kung University	Dual-layer coating of PDMS and porous PMMA for passive daytime radiative cooling
SP1-062	Duc-Anh Le National Tsing Hua University	Enhancing MAPbI3 Perovskite Performance by Cs/Br Doping and Crown-ether Passivation
SP1-063	楊振仕 淡江大學學校 財團法人淡江大學	高熵普魯士藍類似物應用於電容去離子
SP1-064	鄧莉馨 國立成功大學	Mixed Polymer–Fullerene Additives as an Effective Interface Passivation Strategy for Stable High-Efficiency Perovskite Solar Cells
SP1-065	Feng-Ho Hsieh National Taiwan University of Science and Technology	Investigation of the Pressure Effect on Interfacial Phenomena in All-Solid-State Batteries
SP1-066	薛莉婷 國立成功大學	Interfacial Engineering with Tetramethylammonium Iodide for High-Efficiency FAPbI3 Perovskite Solar Cells
SP1-067	沈杰緯 國立成功大學	Using Lithium Polyphosphate-Coated Silicon Dioxide Particles to Improve Safety and Performance of Lithium Metal Batteries
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
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
SP1-070	廖庭潤 國立臺灣大學	Measuring the True Efficiency of Thermogalvanic Cells for Waste Heat Conversion
SP1-071	江苙寬 中原大學	P2/O3 Biphasic Na <sub>x</sub> Cu <sub>0.2</sub> Fe <sub>0.4</sub> Mn <sub>0.4</sub> O <sub>2</sub> Layered Oxide Cathodes via Oxalate Co-precipitation for High-Capacity Sodium-ion Batteries
SP1-072	江苙瑀 中原大學	Sintering condition effects to control oxygen vacancy of V <sub>2</sub> O <sub>5</sub> cathode for Zn ion battery applications
SP1-073	李品睿 National Taiwan University	Co-Generating Electricity During Heat Exchange with Thermogalvanic Cells
SP1-074	謝清順 國立雲林科技大學	電化學噪訊腐蝕感測器於不鏽鋼與鍍鋅鋼之原位非破壞性監測與評估
SP1-075	詹承翰 國立成功大學	Scalable Fabrication of Thin Oxide Solid-state Electrolytes for High-energy density Lithium–Sulfur Batteries

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SP1-076	吳東頤 淡江大學學校 財團法人淡江大學	二氧化矽-碳複合材料微米顆粒之合成及於電容去離子元件之應用
SP1-077	Ching Chao National Taiwan University	Electrolytically Ionized Chemical Mechanical Planarization for Advanced Interconnects
SP1-078	林昱靜 國立雲林科技大學	Harnessing Infrared Solar Energy through NIR Dye-Sensitized Upconversion Nanoparticles in Photovoltaics
SP1-079	袁渝芝 中原大學	Synthesis and Characterizations of Cr3+-doped Li1.3Al0.3Ti1.7(PO4)3 Solid Electrolytes for Lithium All-Solid-State Battery Applications.
SP1-080	郭冠宏 國立清華大學	Tuning Electrode-Electrolyte Interface by Co-Solvent to Enhancing Multi-Carbon Products
SP1-081	黃勁文 國立中央大學	電化學蝕刻法製備陽極氧化鋁水蒸發奈米發電機及其特性分析
SP1-082	Fadila Arum Rhamadani National Taiwan University / National Taiwan University of Science and Technology	Regulating the Local Coordination of Cobalt Single Atom Catalyst for Improved Electrochemical CO2 Reduction Reaction
SP1-083	Peng-Yao Chen 國立中興大學	π-Conjugated Triazine–Benzotrithiophene COF Networks Integrated with Carbon Nanotubes and Reduced Graphene Oxide in Cellulose Films for High-Performance Supercapacitors
SP1-084	蔡宜如 國立中正大學	直接氮固態氧化物燃料電池之動態建模與驗證研究
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
SP1-086	黃重逸 國立雲林科技大學	Electrolyte Effects on the Reversibility and Stability of Zinc Electrodes
SP1-087	吳庭瑋 國立陽明交通大學	Direct Growth of Nitrogen-Doped Vertical Graphene Nanosheets on Ni foam for High-Performance Supercapacitors
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
SP1-090	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
SP1-091	Cheng-Han Weng National Taiwan University	Non-Destructive Methods for Carrier Profiling andTransport Analysis in Semiconductors

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SP1-092	鄧宇婷 東海大學	Binder-free electrodeposited nickel selenide thin films on carbon paper as robust anodes for sodium-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
SP1-094	蔣欣芸 東海大學	Binder-Free 1D–2D Ni <sub>3</sub> S <sub>2</sub> Heterostructures Enabling High-Performance Supercapacitors and MOR Catalysis
SP1-095	黃謹心 東海大學	Highly Active Carbon Nanotube–Nickel Selenide Nanocomposites for Enhanced Urea Oxidation Electrocatalysis
SP1-096	Shou-Zhi Kuo Tunghai University	Hydrothermal Synthesis of Manganese Oxides with β-Cyclodextrin Assistance as Advanced Cathode Materials for Aqueous Zinc-Ion Batteries
SP1-097	Yu-Wen Hsu Tunghai University	Polyvinylpyrrolidone-Assisted Sol–Gel Synthesis of Li <sub>2</sub> TiSiO <sub>5</sub> /C Composites as High-Performance Anodes for Lithium-Ion Batteries
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
SP1-099	陳韻心 國立臺灣大學	CO <sub>2</sub> 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
SP1-101	王麗云 元智大學	不同 pH 值對 LATP 固態電解質結構及電化學性能影響
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
SP1-103	莊惠婷 國立臺灣大學	Optimizing Copper-Nitrogen-Carbon Catalysts for Enhanced Electrocatalytic Reduction of Furfural
SP1-104	林暉恩 國立宜蘭大學	Advancements in DLP 3D Printing for Ultra-Thin, High-Precision Alumina Ceramic Substrates
SP1-105	張銘家 明志科技大學	以卷對片機制設計塗佈系統優化柔性鈣鈦礦太陽能電池之開發
SP1-106	謝欣慈 中原大學	靜電紡絲硫化銅/聚偏二氟乙烯複合材料於無負極鋰金屬電池銅箔集電器改質之應用
SP1-107	郭家齊 國立高雄師範大學	以新型多脈衝測試評估 GaN 電晶體半導體傳播延遲與不匹配之時域特性與多目標灰關聯最佳化參數分析
SP1-108	高詠駿 國立雲林科技大學	三維 MoS <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> 複合材料於雙酚 A 電化學感測之研究

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SP1-110	<b>Liang Gao-Jhih</b> National Taiwan University of Science and Technology	Modification of Current Collectors to Enhance the Cycling Performance of All-Solid-State Lithium-Sulfur Anode-Free Batteries
SP1-111	<b>Pin-Hsi Lai</b> National Cheng Kung University	Efficient and selective electrosynthesis of hydroxylamine using non-noble electrocatalysts at acidic pH

## 壁報二

November 29

13:00-14:40

海報編號	發表者	演講題目
SP2-001	<b>Nguyen Phuc Thien Ngan</b> National Tsing Hua University	CaEDTA - Acetic Acid Mediated Gelation of Alginate for Rapid Spheroid Formation
SP2-002	<b>吳柏鈺</b> 國立成功大學	Synthesis of Dopamine Derivative Polymers with Zwitterionic Sulfobetaine of Different Chain Lengths and Evaluation of Their Use for Surface Modification of Titanium for Antibacterial Application
SP2-003	<b>林祐宏</b> 國立成功大學	Evaluation of Surface Properties and Antibacterial Capability of Polypropylene Modified by Catechol-Terminated Zwitterionic Sulfobetaine and Polyethyleneimine
SP2-004	<b>Shirish Killedar</b> National Tsing Hua University	Shape Dependent Endocytosis of Iron-Containing MOF's for Highly Efficient Pancreatic Cancer Therapy
SP2-005	<b>侯昀君</b> 國立成功大學	Studies of direct titanium surface modification via catechol-containing zwitterionic carboxybetaine and its antibacterial application
SP2-006	<b>Chao-Tzu Teng</b> National Central University	Zwitterionic Hydrogel Coatings via Silatrane Chemistry
SP2-007	<b>Tzu-Kai Li</b> National Central University	Osmotic Power Generation System using Antifouling, Graftable and Ion-Selective Diblock Copolymer Modified Nanoporous Aluminum Membrane
SP2-008	<b>Shun-Hao Chuang</b> National Taiwan University of Science and Technology	Heparinized Agarose Microspheres for High-Purity Exosome Affinity Purification and Myocardial Infarction Repair
SP2-009	<b>薛湘雯</b> 國立中興大學	Self-Assembly of Shark-Inspired Hierarchical Structures for Anti-Fouling Applications
SP2-010	<b>Tsung-Yu Tseng</b> 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



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海報編號	發表者	演講題目
SP2-011	李華雄 國立高雄科技大學	Development of mixotrophic cultivation strategies for CO <sub>2</sub> fixation and scytonemin production in Cyanobacterium aponinum PCC10605
SP2-013	Pei-Wen Tsai Feng Chia University	Combination of Chitosan-based Substrate and Computational Model for Patterning the Cell Distribution
SP2-014	江柏諭 東海大學	Explore the effect of γ-Fe <sub>2</sub> O <sub>3</sub> magnetic nanoparticles on adsorption rate of quercetin under different reaction conditions
SP2-015	Yun-Ting Lin National Taipei University of Technology	Development of a Biocompatible, Compressible CMC-Based Hemostatic Sponge via Green Cross-Linking
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
SP2-020	王家楹 國立中興大學	Self-Assembly of Rove Beetle-Inspired Hierarchical Structure Arrays for Reversible Adhesion on Rough Surfaces
SP2-021	賴芷沄 元智大學	應用於肝癌治療之藥物負載聚合物塗層鈷鐵氧與 MOF-303 奈米載體之合成、鑑定與藥物釋放動力學研究
SP2-022	劉宇豪 國立清華大學	Development of a STAS-on-a-Chip for Investigation of Lung Cancer Metastasis
SP2-023	蔡慶璋 國立雲林科技大學	Process Modeling and Techno-Economic Assessment(TEA) of biochar production from insect frass
SP2-024	Cheng-Yueh Lin National Tsing Hua University	Oral Magnetoelectric Neuromodulation as a Noninvasive Therapy for Parkinson's Disease
SP2-025	林琮祐 東海大學	Development and Rapid Identification of a SERS Microbial Fingerprinting Platform Based on Silver-Shelled Gold Nano-stars Combined with Green Tea Extract Stabilizer
SP2-026	Yi-Ru Jhang Feng Chia University	Concentration Gradient Microfluidics for Neural Stem Cell Applications
SP2-028	傅韋捷 東海大學	Edible Fungus–Microalgae Symbiosis as a Green Strategy for Algal Biomass Harvesting and High-Value Metabolites Synthesis
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
SP2-030	倪翊涵 National Taiwan University	Development of a Label-Free SPR Platform for Measuring Transport of Small-molecules through Cells

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海報編號	發表者	演講題目
SP2-031	Nguyen Thi Thu Huyen National Taipei University of Technology	Ion-Exchanged Zeolite-Based Gelatin/CMC Composite Sponge for Rapid and Effective Hemostasis for Clinical Application
SP2-032	Zi-Han Su National Central University	Controlled Silanization and Biomolecular Conjugation via Ultra-Stable Carboxyl Silatrane for Neurofilament Light Chain Detection
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
SP2-034	龔逸辰 國立臺北科技大學	前列腺癌尿液檢測之新興生物標誌物與臨床統計分析
SP2-035	黃裕翔 國立臺北科技大學	線狀鉑金屬電極之電化學免疫平台於循環腫瘤細胞偵測之研究
SP2-036	郭芷妘 淡江大學學校 財團法人淡江大學	Antibacterial TPU Nonwoven Dressing Modified by Oxygen Plasma and UV Grafted Chitosan Hydrogel Incorporating Herbal Extracts
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
SP2-038	胡崴翔 國立清華大學	仿生雙亞硝基鐵錯合物誘導膀胱癌細胞凋亡與鐵死亡之晶片模型研究
SP2-039	Chieh-Ting Tseng National Taiwan University	Injectable and Cytocompatible Catechol-Modified Gelatin Hydrogels with Metal Ion Crosslinking
SP2-040	Chieh-Han Shen National Taitung University / National Cheng Kung University	Green Synthesis of Nucleic Acid-Phenol Acid Composites for Enhanced Antibacterial Efficacy
SP2-041	Yi-Ru Liao National Cheng Kung University	Modulating Encapsulation Efficiency and Drug-Release Behavior of Catanionic Vesicles by Unsaturated Fatty Acids
SP2-042	Ping Wei Ko Tamkang University	Electrospun PVA/ Chitosan/Zein Composite Membranes for Periodontal Regenerative
SP2-043	麥浚銘 國立臺東大學	天然中草藥於骨關節炎治療應用之探討
SP2-044	Yi-No Hu Chung Yuan Christian University	Thermo-responsive Polypropylene Membranes for Efficient Leukocyte Enrichment
SP2-045	Hsin-Kai Huang Chung Yuan Christian University	Thermally Regulated Adhesion and Release of Human Biofoulants on Zwitterionic Polydimethylsiloxane Surfaces

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海報編號	發表者	演講題目
SP2-046	Jen-Yi Lee Chung Yuan Christian University	Thermostable Zwitterionic Copolymer-Modified PVDF Membranes for Bioinert Applications
SP2-047	張尹薰 國立中興大學	具備可自產 H <sub>2</sub> O <sub>2</sub> 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	林威勸 國立臺灣大學	Coupled Antifouling and Photodynamic Antibacterial properties Against Catheter-Associated Infections
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
SP2-050	林彥辰 Chung Yuan Christian University	Leveraging the Dielectric Barrier Discharge Plasma Process to Create Regenerative Biocidal ePTFE Membranes
SP2-051	梁翔喻 國立臺灣大學	A Study on the Modulatory Role of Polyethylene Glycol in the Drug Release Kinetics of Non-Phospholipid Liposomes
SP2-052	朱思菩 國立中興大學	仿變色龍力致變色光子晶體於監測青光眼之應用
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
SP2-055	黃恩恩 國立臺灣大學	Design of Visible Light-Crosslinked Caffeic Acid-Modified Gelatin Hydrogels and Characterization of Different Crosslinking Methods
SP2-056	鄭憲 國立成功大學	Controlled Drug Release Behavior of Positively Charged Catanionic Vesicles Associated with Hydrophobically Modified Polynucleotides
SP2-057	蘇詩元 國立臺灣大學	Development of an Antioxidant Hydrogel Catheter Incorporating PEDOT: PSS for Nerve Repair
SP2-059	高煒翔 國立清華大學	Directed Evolution of Engineered E. coli Using a Microfluidic Platform for Enhanced Adipic Acid Tolerance and Production
SP2-060	黃郁仁 國立臺灣大學	Organ on a Chip: Outer Blood-Retinal Barrier Model for Dry AMD Analysis
SP2-061	何深玉 國立高雄科技大學	Sustainable extraction of β-chitin from squid pens using deep eutectic solvents: Process optimization and characterization
SP2-062	伊莉蓉 長庚大學	Evaluation and Optimization of Co-Culture System with a Novel Horizontal circulating - flow type bioreactor for Bioethanol Production from agricultural wastes
SP2-063	易盈萍 國立高雄大學	向上轉換複合型奈米粒子之製備及其在近紅外光下誘導活性之應用

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海報編號	發表者	演講題目
SP2-064	廖珮辰 國立臺灣大學	Self-Assembly Porphyrin Nanoparticles with Capsid-Like Architecture: A Biomimetic Strategy for Photodynamic Cancer Treatment
SP2-065	龔品仔 國立清華大學	Development of a Microfluidic Device for Continuous Product Separation in Low-Carbon Adipic Acid Production
SP2-066	吳舜瑀 國立中正大學	Integrating Poly(BMA-co-OxMA) Surface Modification into Porous PP Membranes to Enable Selective Capture of Exosomes
SP2-067	黃柏文 國立臺東大學	草本萃取物對臺灣缺蠓之誘引與忌避效果研究
SP2-068	Oanh Thi Kim Nguyen National Kaohsiung University of Science and Technology	Green Production of Chitooligosaccharide–Gallic Acid Conjugate and Its Bioactivity
SP2-069	曾宥文 國立高雄科技大學	Surfactant-modulated hydrophobic association poly(SBMA) hydrogels
SP2-070	江佳諭 淡江大學學校 財團法人淡江大學	Enhancement of Pure Titanium by Functionalized Micro-Arc Oxidized Ceramic Layer and Plasma Surface Activationfor Biomedical Applications
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
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
SP2-074	簡稚恩 南臺科技大學	利用大腸桿菌建構 3-岩藻糖基乳糖的生產菌株
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
SP2-076	Yi-Xuan Li National United University	Development and Release-Control Optimization of Rectal Formulations Based on Hyaluronic Acid–Mesalamine Conjugates
SP2-077	陳政舜 國立臺灣海洋大學	Development of an IoT-Integrated In Vitro Gastric Physiology Simulation Platform Using Microcontroller Technology
SP2-078	Ai-Yuan Hsu National United University	Preparation and Microstructural Property of Polyvinyl Alcohol via twin-screw extrusion using citric acid-chitosan cross-linked Plasticization
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

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SP2-080	劉新魁 國立雲林科技大學	製備含花青素之四級銨鹽化幾丁聚醣水凝膠作為 pH 敏感性敷料
SP2-081	王昱翔 國立雲林科技大學	以水楊酸鈉插層之層狀雙氫氧化物/聚乙烯醇/四級銨鹽明膠作為抗菌複合薄膜敷料
SP2-082	黃石翔 國立聯合大學	利用光譜分析紅茶於室溫下存放之化性變化探討
SP2-083	陳亮秦 元智大學	Green Synthesis and Recycling of CO <sub>2</sub> -Based Ionic Liquids for Bio-Pigment Extraction
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
SP2-086	王秋懿 元智大學	利用化學改質石墨氈電極開發微生物燃料電池，用於廢水處理和生物發電
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
SP2-088	Tzu-Kuan Lien National Ilan University	Optimization of target anthraquinone production via fermentation processed rhubarb and its molecular potential as a novel candidate drug for Parkinson's Disease
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
SP2-090	Yasmin Kaye C. Borja Mapúa University, Philippines	Deciphering the Electron Shuttle-Associated Neuroprotective Properties of White and Red Dragon Fruit Extracts Using Microbial Fuel Cell Analysis
SP2-091	Ron Jacob B. Avila Mapúa University, Philippines	Modulation of Redox and Electron Transfer Properties of Trichodesma khasianum by Drying Conditions and Extraction Solvents
SP2-092	Shin-Ru Leng National Ilan University	Enhancing Neuroprotective Potential of Perilla frutescens through Serially Acclimated Fermentation: A Kinetic Analysis of Acetylcholinesterase Inhibition
SP2-093	Tsung-Yen Wu National Ilan University	Feasibility study on sustainable material recycling and reuse of agricultural waste for value-added production
SP2-094	洪嘉亨 國立聯合大學	金屬增強冷光於農藥檢測之應用

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海報編號	發表者	演講題目
SP2-095	Robert V. Obiano Mapúa University, Philippines	Electrochemical and Molecular Characterization of Redox-Active Phenolics Extracted from Lotus Seedpods for Bioenergy and Therapeutic Applications
SP2-096	Hong-Nhung Nguyen National Tsing Hua University	Oral $\beta$ -Glucans-Functionalized Dopamine Prodrug Nanoparticles for Targeted Management of Parkinson's Disease
SP2-097	蔡子翊 大同大學	以楊梅素微脂體微針藥物釋放減緩癍痕疙瘩擴張
SP2-098	Shi-Zhen Hong National Ilan University	Feasibility Study of Electrochemical Processing for Value-Added Production of Traditional Chinese Medicine
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 $\gamma$ -aminobutyric acid signaling pathway

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海報編號	發表者	演講題目
SP3-001	莊書琮 國立雲林科技大學	擾動辨識代理模型應用於多效蒸餾純化苯乙烯製程
SP3-003	鄭伊容 國立雲林科技大學	使用大型語言模型 GPT-2 執行熱力學性質分子設計
SP3-004	鍾依玲 國立雲林科技大學	鋰電池雙層塗佈乾燥理論模型開發
SP3-005	詹皓翔 國立臺灣大學	Simulation of Coke Formation in Catalyst Microstructure during Ethylene Oxychlorination Reaction
SP3-006	Hsiao-Te Liu National Taiwan University	Distillation retrofit: stacked side-stream sequences vs. dividing-wall columns
SP3-007	Li-Chin Hsiao National Taiwan University	Recovery of High-Value Olefins from Plastic Waste Pyrolysis Gas: Process Intensification and Energy Optimization
SP3-008	李文揚 國立臺灣大學	Optimized Plastic Pyrolysis: Recovering High-Purity Olefins with Simulated Annealing
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
SP3-010	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
SP3-011	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
SP3-013	Chen-Wei Hsu 國立臺灣科技大學	Accurate Machine-Learning Force Field Modeling of Electrolyte Solvation and Interfacial Behavior in High-Energy Lithium-Metal Batteries
SP3-014	Zi-Ting Huang Feng Chia University	A DFT Study of Selective Detection of Various Toxic Gases Using Pristine and Defected Bi <sub>2</sub> Se <sub>3</sub>
SP3-015	葉育銓 國立臺北科技大學	σ-profile 分子描述符結合深度學習於液-液相分離預測之應用
SP3-016	劉丞愷 國立中央大學	Process Design of Green Hydrogen Production from Glycerol-Rich Wasterwater via Steam Reforming
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

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SP3-018	Arif khan National Taiwan University	Distillation process optimization for chlorobenzene production from a benzene-p-dichlorobenzene and water system in a dividing wall column
SP3-019	周琮毅 國立中央大學	Development of a Continuous Carbonation Process for CO <sub>2</sub> Capture and Valorization into Light Calcium Carbonate
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
SP3-021	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
SP3-022	Po-Yao Chang 明志科技大學	二元成分之精餾塔最適化操作與模型預測控制-以己烷、丁烯純化為例
SP3-023	劉羿群 國立成功大學	整合能源系統之熱電能動態模擬研究
SP3-024	江采錡 國立臺灣科技大學	Theoretical Insights into Al Corrosion by Imide-Based Electrolytes in Lithium-Ion Batteries
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
SP3-026	林佩蓉 國立臺灣科技大學	非富勒烯受體分子在有機太陽能電池中之排列行為與電荷轉移特性模擬研究
SP3-027	洪妤玟 國立臺北科技大學	Physics-Informed Deep Learning Approaches for Pipeline Anomaly Detection and Diagnosis
SP3-028	黃秀琴 國立臺北科技大學	Analysis and Prediction of SOFC Performance Degradation Caused by Anode Deterioration
SP3-029	徐國鎧 國立臺北科技大學	以氨氣/甲烷混合燃料策略提升直接燃料 SOFC 之性能
SP3-030	陳奕銘 國立臺灣大學	Rigorous Kinetic Modeling and Life Cycle Assessment of Lignin Conversion via Hydrothermal Liquefaction and Carbonization
SP3-031	賈惟珉 國立臺灣科技大學	Ab Initio Exploration of High Stability in Novel Argyrodite Solid-State Electrolytes
SP3-032	鄭宇廷 國立臺灣大學	Kinetic Modeling and Process Optimization Study of Vinyl Chloride Emulsion Polymerization
SP3-033	林秉輝 國立中央大學	Simulation and Analysis of Hydrogen Storage Behavior in Ti <sub>36</sub> V <sub>11</sub> Ta <sub>16</sub> Cr <sub>16</sub> Mo <sub>21</sub> High-Entropy Alloy
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



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海報編號	發表者	演講題目
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
SP3-037	陳叡賢 國立成功大學	Interactions between Biopolymers and Ion Pair Amphiphile Bilayers
SP3-038	Chih-kun Huang National Cheng Kung University	Effects of Ceramic Surface Functionalization on Interfacial Li+ Transport in Composite Polymer Electrolytes
SP3-039	林芯儀 國立成功大學	Interaction between Ion Pair Amphiphile Vesicles and Polymers: A Coarse-Grained Molecular Dynamics Simulation Study
SP3-040	張家瑋 中央研究院/國立臺灣大學	Nanobubble-Induced Supersaturation and Accelerated Gas Hydrate Nucleation: A Theoretical and Molecular Dynamics Investigation
SP3-041	陳其宏 中國文化大學	DFT investigation of C-C and C-N coupling reactions catalyzed by single metal atoms on N-doped graphene
SP3-042	梁興豪 國立臺灣大學	Small-scale Hydrogen Production by Methane Steam Reforming with PSA and CCSU
SP3-043	Bo-Long Lin National Cheng Kung University	Process Design of Oxy-Fuel Combustion Combined Cycles for Carbon Capture Using Lng Regasification
SP3-044	Liang-Yu Liu National Cheng Kung University	Circular Waste-to-Fuel Strategy via Hydroprocessing of FOG and Plastics
SP3-045	周玉婷 國立聯合大學	Phase Behavior of Diblock Copolymer and Its Blends with Ionic Liquids Exhibiting Lower Critical Ordering Transition
SP3-046	曾彥揚 國立清華大學	Synergistic Flexibility and Corrosion-Resistant of Ag2S0.5Se0.5 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
SP3-049	劉子語 國立中興大學	仿青蛙皮膚之不規則皺摺結構於抗污之應用

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SP3-050	謝秉威 中原大學	Printable Dual-Mode Temperature and Pressure Sensors Based on Carbon Nanotube and Electrospun Super P/PVDF Films
SP3-051	王睿筑 國立高雄科技大學	基於量子點螢光光譜的重金屬離子檢測技術實踐 SDGs 淨水與衛生
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
SP3-053	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
SP3-057	Yi-Ching Ho National Taipei University of Technology	Printed Organic Electrochemical Synaptic Transistors
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
SP3-059	江政毅 國立中興大學	Bending Resistances of Elephant-Trunk-Inspired Wrinkled Structure-Coating Materials
SP3-060	莊書瑄 國立臺灣大學	Design and Fabrication of a Multifunctional Sweat Sensor Electrode Based on Laser-Induced Carbonization
SP3-061	黃韻安 國立臺灣大學	Adhesive PAM/PEI Hydrogel for Stable Sensor-Skin Interface in Wearable Patches
SP3-062	劉子禎 國立臺灣大學	Preparation of Polyacrylamide/Reduced Graphene Oxide Composite Thermogalvanic Hydrogels for Wearable Safety Applications
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
SP3-064	劉懿萱 國立臺北科技大學	Flexible Silver Nanowire Electrodes for High Gauge Factor Electronic Skin
SP3-065	李秉諺 東海大學	耐高溫與低吸水性聚乙醇醇的合成與特性研究

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海報編號	發表者	演講題目
SP3-066	Pei-Cih Hu National Chung Hsing University	Enhanced Triboelectric Nanogenerator Performance Using Cellulose Nanocrystal-Doped Electrospun PVDF-HFP Nanofibrous Membranes
SP3-067	陳映汝 國立勤益科技大學	Designing Low-Dielectric Polyimide Composites via Hollow Glass Microsphere Dispersion
SP3-068	劉秀一 國立臺北科技大學	High-Performance Complementary Inverters Based on a Photo-Crosslinkable Ternary Polymer Blend
SP3-069	曾煥棋 國立成功大學	聚吡咯奈米管接枝馬來醯亞胺修飾電極用於人類尿液白蛋白感測
SP3-070	Xiang-Ren Chen National Taiwan University	Interfacial Engineering of MXene/Conjugated Polyelectrolyte Bilayer Films for Thermoelectric Applications
SP3-071	陳品妍 國立宜蘭大學	Surface Modification of Poly(vinylidene fluoride-co-hexafluoropropylene) Membrane via Crosslinking with Pyrogallol and Different Amines for Oil-Water Emulsion Separation
SP3-072	劉勁毅 國立宜蘭大學	Covalent Organic Framework-Polyurea Pervaporation Composite Membrane for Dehydration of Biobutanol
SP3-073	毛彥婷 國立宜蘭大學	Titanium Dioxide Quantum Dots-Polyamide Nanofiltration Composite Membrane for Separation of Dye/Salt Solution
SP3-074	林嫻岑 國立宜蘭大學	Nanofiltration Performance of Zwitterionic Graphene Quantum Dot-Polyamide Composite Membrane for Separation of Dye/Salt Solution
SP3-075	邱笠唐 國立宜蘭大學	Amino-Functionalized Carbon Quantum Dots-Polyamide Composite Membrane for Nanofiltration Process
SP3-076	田宸瑋 國立宜蘭大學	AI-Assisted Prediction of DLP Working Curves for 3D-Printed Ceramic Membranes
SP3-077	蔡佩怡 國立成功大學	Unusual Dynamic Molecular Transport on Membrane-Modified Microelectrodes Subjected to AC Electric Fields
SP3-078	林孟芷 國立臺灣大學	Engineering nanofiltration membranes for enhanced charge-driven ion selectivity and permeability
SP3-079	陳順慶 國立成功大學	Unique AC Electrothermal Flows Due to Joule Heating in Electric Double Layer Charging
SP3-080	邱慶維 國立臺灣大學	Separation Process and Retention Mechanisms of Phenolic Compounds in Bamboo Pyrolygneous Acid
SP3-081	Saengsawang, Boonyawee National Cheng Kung University	Zirconium-Based MOF/Corncob-Derived Biopolymer Composites for Enhancing Biogas Purification via Pressure Swing Adsorption

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SP3-082	洪雋杰 國立成功大學	Serpentine Micromixer-Assisted Pickering Emulsion of Algal Oil Stabilized by Calcium Carbonate Nanoparticles
SP3-083	陳芋諠 國立中興大學	Formosan Subterranean Termite-Inspired Unidirectionally Inclined Conical Structure Arrays as Superhydrophobic/Anti-Fogging Coatings
SP3-084	高心慧 國立成功大學	Microencapsulation of algal oil via Pickering emulsion-assisted inverse gelation
SP3-085	鄭廷緯 中原大學	在旋轉盤反應器中利用紫外光滅菌
SP3-086	陳建安 中原大學	利用不同配方之溶膠凝膠製備二氧化鈦光觸媒於旋轉盤反應器進行光催化降解
SP3-087	許沛珊 國立臺灣大學	Large-Pore MOF Membranes via Vacuum-Driven Polymer Insertion for Carbon Capture and Hydrogen Purification
SP3-088	李允慈 中原大學	加裝擋板葉片式旋轉填充床中對壓降及二氧化碳吸收之研究
SP3-089	官俐玟 國立臺灣大學	Constructing Continuous Lipid Membrane Platforms for Membrane Protein Collection
SP3-090	黃亞琳 淡江大學學校財團法人淡江大學	二氧化碳甲烷化製程之設計與分析
SP3-091	賴怡靜 逢甲大學	Development and Application of a Three-Dimensional Cell Culture System on a Centrifugal Platform
SP3-092	林沛瑤 逢甲大學	Automated Fraction Collection for Protein Separation using Modular Structures on a Centrifugal Platform
SP3-093	滕仁傑 逢甲大學	Automated serial dilution on a centrifugal microfluidic platform
SP3-094	Jen-Hsiang Chang Chung Yuan Christian University	Performance Assessment for DCMD using PVDF Membranes Fabricated by Vapor-Induced Phase Separation with Process-Controlled Wettability
SP3-095	Chang, Rui-You Chung Yuan Christian University	One-step Zwitterionization of PVDF Microfiltration Membranes to Mitigate Biofouling
SP3-096	林冠宇 中原大學	使用新型超微流量液體滲透儀探討微過濾汙堵機制與過濾行為之研究
SP3-097	陳妍廷 中原大學	使用流體力學方式提升海水中無機顆粒之分離性能
SP3-098	張華苓 國立臺灣大學	Effects of pH Regulation and Organic Modifier Concentration on the Retention Behavior of Amino Acids in Reversed-Phase Liquid Chromatography

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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
SP3-101	林芝穎 國立中興大學	Pebax/含胺基填料混合基質薄膜於模擬煙道氣之高效碳捕捉
SP3-102	徐晏翎 元智大學	Seeded Batch Crystallization of Acetaminophen: A Seeding Equation for Sustainable Process Development
SP3-103	Bo-Sheng Lai National Taiwan University	Flow Behavior of Concentrated Emulsions in Microchannels with Patterned Surface Roughness
SP3-104	陳又銘 國立臺灣大學	MOF-303 Tubular Membranes via PVA-Assisted Secondary Growth for Efficient CO <sub>2</sub> /N <sub>2</sub> and CO <sub>2</sub> /CH <sub>4</sub> Separation
SP3-105	王智譽 國立臺灣大學	透過相分離微成型製備具表面圖案與緻密結構之 PVDF 膜及其防垢效能評估
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
SP3-107	Ming-Jiun Tsai 國立宜蘭大學	Digital Fabrication of Diatomite-Based Inorganic Membranes via DLP 3D Printing for High-Flux Microfiltration
SP3-108	徐譽恩 國立宜蘭大學	Digital Fabrication of 13X Zeolite Monoliths via DLP 3D Printing for CO <sub>2</sub> Adsorption Applications
SP3-109	許廷睿 國立宜蘭大學	Zwitterionic Amine-functionalized Graphene Quantum Dots-Polyamide Organic Solvent Nanofiltration Composite Membrane for Dye/Ethanol Solution Separation
SP3-110	陳慶隆 國立宜蘭大學	Study on Covalent Organic Framework-Polyamide Pervaporation Composite Membrane for Separation of Biobutanol Aqueous Solution
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
SP3-113	黃家靖 國立臺灣大學	Wireless sEMG System with Carbon-Based Electrodes for Muscle Fatigue Monitoring
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
SP3-115	You-Ting Chen National Taipei University of Technology	Establishment of a Novel Friction-Testing Platform to Simulate Eyelid-Contact Lens Interactions

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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
SP3-117	Yu-Xiang Chen National Taipei University of Technology	Development of Starch-Based Antibacterial Sponge Dressings and Their Potential in Burn Care
SP3-118	Rinki Halder National Taipei University of Technology	Development and Evaluation of the Drug Release Ability of a Thermosensitive Hydrogel for Potential Wound Dressing

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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
SP4-002	黃珮甄 國立臺灣大學	Scalable Synthesis of UTSA-16(Zn) Crystals Using Oscillatory Flow Reactors
SP4-003	陳威翰 國立高雄科技大學	Specroelectrochemical studies of copolymers based on acridine and dithiophene derivatives and their applications in electrochromic devices
SP4-004	張紀晴 國立中央大學	First-Principles Investigation of the Effects of Metal Doping on Electronic Structure and Adsorption Capability of MOF
SP4-005	陳亭妤 國立中興大學	Sapphirina-Inspired Shape Memory Photonic Crystals for Munker-White Illusion
SP4-006	季璇 國立中興大學	Study on Weevil-Inspired Color-Switchable Photonic Materials
SP4-007	李建定 國立成功大學	Synthesis of polyimide using green solvent
SP4-008	彭鈺棋 國立臺灣大學	Enhancing the Thermoelectric Performance of Flexible Ag <sub>2</sub> Se Substrates via Polyelectrolyte Heterointerface Engineering
SP4-009	賴冠霖 國立成功大學	Chiral Photomemory based on Chirality Transfer/Chiral Molecule Heterojunction
SP4-010	許恩碩 南臺科技大學	原位磷酸摻雜聚苯並咪唑高分子之合成與質子導電性能研究
SP4-011	珉欣 義守大學	新型 PVA/HEC 矽烷串珠複合纖維於摩擦奈米發電機之應用

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SP4-012	胡哲璋 義守大學	基於永續資材稻殼灰衍生二氧化矽/PVA 導電水凝膠之凍融法合成與應用
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
SP4-014	Hsin-Yi Yang 國立中興大學	Vapor Pressure-Responsive Photonic Crystals with Reversibly Tunable Colors for Optical Encryption
SP4-015	Wei-Lun Chen National Taiwan University	Development of Resin-Derived Forming and Sintering Strategies for Advanced Carbon Materials
SP4-016	林宜蓁 中原大學	探討矽前驅物四乙氧基矽烷對中孔洞二氧化矽薄膜之孔徑影響
SP4-017	高芷瑄 中原大學	Leaf-like Silk Protein Films with Porous Structures for Self-Healing Functional Materials
SP4-018	黃宸祐 國立高雄科技大學	Salt-modulated hydrophobic association zwitterionic hydrogels
SP4-019	張堂璋 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
SP4-020	Zhen-Wel Wang National United University	Effect of Sphagnum Fiber Particle Size on Properties of Thermoplastic Starch-Based Foamed Horticultural Substrates
SP4-021	陳嫻瑜 國立成功大學	Development of Biobased Photosensitive Polyimides Derived from Isosorbide for Negative-Type Photoresists
SP4-022	陳逸家 中原大學	高延展性仿葉結構蠶絲蛋白複合材料之研究
SP4-023	鄭立楷 國立成功大學	Development of (CQD&Pt)@MOF Composite Catalyst for Photocatalytic Hydrogen Evolution
SP4-024	Jen-Yu Chang National Taiwan University	Study of Oxygen Reactivity on Ag/ $\alpha$ -MnO <sub>2</sub> 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
SP4-026	周琦巖 國立清華大學	Rashba effect-enhanced spin-orbit coupling in Mn <sub>1-x</sub> Sn <sub>x</sub> Sb <sub>2</sub> Se <sub>4</sub> for optimized ionic and electronic kinetics for superior K <sup>+</sup> storage
SP4-027	陳則宇 國立清華大學	Design and Performance Optimization of Aqueous Zinc-Ion Battery Cathodes Based on Topological Insulator SnBi <sub>4</sub> Te <sub>7</sub>
SP4-028	葉宏洋 國立清華大學	Perovskite zinc ion battery

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SP4-029	周慧慈 國立成功大學	Metal Dimer Nanojunctions- Magnetic Materials Composites for Magnetic Field Sensing
SP4-030	羅立凱 國立成功大學	Plasmon-modulated Photoluminescence Mechanisms in Plasmonic Nanojunctions Composites
SP4-031	謝乃雯 國立成功大學	Synthesis of Three-Component Cu <sub>2</sub> O/ZnO/Ag Nanocrystals Heterogeneous Photocatalysts with High Reactivity and Stability for Dye Reduction
SP4-032	戴瑞君 南臺科技大學	水熱合成具可見光響應的 Ti <sup>3+</sup> 自摻雜黑色二氧化鈦
SP4-033	張育慈 南臺科技大學	鈣鋅鋁層狀雙氫氧化物之共沉澱合成及其分析
SP4-034	Kuo-Tai Hsu University of Taipei	Partially oxidized Cu@graphene nanoparticles for efficient hydrogen evolution electrocatalysis
SP4-035	李珮儀 國立中央大學	無溶劑及無共觸媒條件下二氧化碳與環氧化物合成環狀碳酸酯之研究: 鐵金屬有機骨架的修飾與催化
SP4-036	張智凱 國立成功大學	Study on One-Step Hydrotreatment of Soybean Oil over Bimetallic Ni-Mo/BEA Zeolite Catalysts for Biofuels Production
SP4-037	張育緯 國立成功大學	Study on Green Technology Advancement: Dry Reforming of Methane Using Co/CeO <sub>2</sub> Catalysts for Syngas Production
SP4-038	吳芊蕺 國立清華大學	CO <sub>2</sub> -negative Chemical-looping Hydrogen Production Using High-performance Dual Functional Ni-FeOx Nanocatalyst
SP4-039	林昀潔 國立清華大學	Low-carbon Hydrogen Production via Methane-steam Reforming over Ni-Pd Bimetallic Nanoparticle Cluster Catalysts
SP4-040	Amin hussain Yuan Ze University	Photocatalytic Removal of Methylene Blue under Visible Light Using Cu-Doped Cobalt Oxide Nanoparticles
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
SP4-043	王志浩 中原大學	合成鎳奈米粒子/鈾矽氧氣凝膠複合結構 應用於二氧化碳/氫氣甲烷化反應
SP4-044	陳奕霖 國立高雄科技大學	銀修飾氧化亞銅凹八面體催化二氧化碳
SP4-045	楊玟晴 中原大學	合成鎳奈米粒子/鈾鈳氧氣凝膠複合結構應用於二氧化碳/氫氣甲烷化反應



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海報編號	發表者	演講題目
SP4-046	林禹辰 國立臺灣大學	Combining Hydrophilic and Hydrophobic Zeolites to Enable Sorption-Enhanced CO <sub>2</sub> Hydrogenation to Methanol
SP4-047	楊銘澤 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
SP4-049	江恆齊 逢甲大學	Photocatalytic Performance of SnO <sub>2</sub> -x Nanorods under UV and Visible Light
SP4-050	賀玄智 逢甲大學	Double-Layer Antireflection Coatings on Glass Using Hollow Silica Nanospheres and a Dense Silica Layer
SP4-051	吳羿麒 南臺科技大學	Synthesis and Structural Evolution of FeCoNiCuAg High-Entropy Alloys via Mechanical Alloying
SP4-052	李青旻 國立高雄科技大學	製備三元異質結構 TiO <sub>2</sub> @g-C <sub>3</sub> N <sub>4</sub> @WO <sub>3</sub> 中空球光觸媒與光催化降解污染物之研究
SP4-053	謝琄如 逢甲大學	Cu foam@Cu <sub>2</sub> O/Cu <sub>2</sub> S/ZnS as Immobilized Photocatalysts with High H <sub>2</sub> Generation Performance
SP4-054	花葦翔 國立雲林科技大學	Electroless-deposited Ni-Co-P composite electrodes for urea electrolysis
SP4-055	蔡賦滄 國立虎尾科技大學	Preparation for Zeolite-like Macroporous Silver Microstructure with the Well Organic Dye/Sudan Red 7B/Methylene Blue Absorbability
SP4-056	劉漢立 Tamkang University	Fabrication of HAp/HAp-Sr Photocurable Resin Bone Scaffolds via LCD Photocuring 3D Printing and Atmospheric Plasma Modification
SP4-057	易軒豪 逢甲大學	Investigation of Mn <sub>x</sub> O <sub>y</sub> -Na <sub>2</sub> WO <sub>4</sub> /SiO <sub>2</sub> Catalysts for Oxidative Coupling of Methane
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
SP4-059	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
SP4-060	劉劭崴 國立虎尾科技大學	Hydrothermal Synthesis of Needle-Shaped and Sea Urchin-like Zinc Oxide Microrods with Heterogenous Nucleation Fabrication
SP4-061	李韋震 逢甲大學	Tailoring Ag- and Ni-Loaded TiO <sub>2</sub> Aerogels for Enhanced Photocatalytic CO <sub>2</sub> Conversion

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SP4-062	Kim Ngan Ngo Ming Chi University of Technology	Preparation of calcium-organic metal frameworks for biodiesel synthesis
SP4-063	葉子成 國立虎尾科技大學	Bismuth Vanadate-Based Photocatalytic Composite with the High Efficiency of Dye Adsorption and Fluff-like Morphology
SP4-064	莊政勳 中原大學	Optimized Formulation of Few-Layer Graphene/Carbon Nanotubes Composite for Enhanced Electromagnetic Shielding Efficiency
SP4-065	陳亞宣 義守大學系	新穎 SnSe/PVDF/MXene 奈米複合纖維之壓電-熱釋電元件的應用
SP4-066	黃煒倫 國立成功大學	Tailoring ligand composition in Mixed-Ligand MOFs for efficient photocatalytic NOx removal
SP4-067	蕭肇淵 Feng Chia University	Investigation of Cr-Co/ZSM-5 catalysts for Oxidative Dehydrogenation of Propane
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 <sub>2</sub> for Photocatalytic Reduction of Carbon Dioxide
SP4-070	韋芊妤 逢甲大學	Synthesis and Characterization of CeO <sub>2</sub> /Cu <sub>2</sub> O Composite Photocatalysts for Enhanced CO <sub>2</sub> Reduction
SP4-071	Chun-Yao Huang Chung Yuan Christian University	Development of Thermostable Zwitterionic Membranes Via Vapor-Induced Phase Separation for Antifouling Applications
SP4-072	陳冠瑜 逢甲大學	以低溫大氣電漿輔助氣溶沉積含鋰氧化鎳薄膜應用於多功能電致色變-能量儲存之研究
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
SP4-074	林琮翔 逢甲大學	以低溫大氣電漿輔助氣溶膠沉積合成氧化鎢鋁薄膜應用於多功能可見光/近紅外光雙頻電致色變-能量儲存元件
SP4-075	姚舜 國立清華大學	Investigation of TiO <sub>2</sub> 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 <sub>x</sub> C <sub>y</sub> 鍵結之消長及其對 MOS 界面缺陷密度之效應
SP4-077	李芝綺 逢甲大學	Performance of Iron-Based Catalysts in Direct Ammonia Protonic Ceramic Fuel Cells

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海報編號	發表者	演講題目
SP4-078	黃筱涵 南臺科技大學	魚鱗來源羥基磷灰石之銅、鋅離子吸附與材料特性研究
SP4-079	李茂璋 逢甲大學	Performance Evaluation of Anode Material for Solid Oxide Electrolysis Cell
SP4-080	Tien-Yu Yang National Tsing Hua University	CO <sub>2</sub> Absorption-Mineralization for Calcium-Looping Integrated with Methane Dry Reforming
SP4-081	張子廷 中原大學	多晶碳化矽的製備
SP4-082	史筱萱 國立清華大學	Understanding Methane Reforming Catalyzed by NiPd-ZrO <sub>2</sub> Nanostructure for Reduced-carbon Hydrogen Production
SP4-083	簡辰修 國立清華大學	Miniaturization of PVA-Pd Nanoparticles and Their Potential Applications
SP4-084	陳幼軒 國立清華大學	Development of Nanostructured Particles for Low-temperature Catalysis of Formaldehyde Oxidation
SP4-085	黃鈺庭 國立成功大學	Evaluation of Commercial Metal Oxides on Silica Supports for Photocatalytic Isopropanol Removal
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
SP4-087	趙孝元 國立臺灣大學	Balancing Cu loading and dispersion on Cu/ZnO/CeO <sub>2</sub> catalyst for enhancing methanol production in ethanol-assisted CO <sub>2</sub> hydrogenation
SP4-088	曾千芊 國立雲林科技大學	Broadband Self-Powered Vis-NIR Photodetectors Using Cs <sub>0.33</sub> WO <sub>3</sub> with AgNWs and Upconversion Nanoparticles
SP4-089	潘映達 明志科技大學	利用 CaFe-LDH 在 Fenton 反應用於水中污染物處理之潛力
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
SP4-091	吳泐 國立中央大學	多孔隙矽晶奈米線水蒸發發電元件之製備及其產電特性研究
SP4-092	李婕如 National Chin-yi University of Technology	Natural Extract-Assisted Synthesis of Au/Graphene-Derivatives-Electroactive Polyimide Catalysts for Efficient Water Pollution Remediation
SP4-093	潘嘉純 National Chin-yi University of Technology	Magnetic Side-Chain Type Electroactive Poly(amic acid) with In-situ Anchored Au nanoparticles in Efficient and Recyclable 4-Nitrophenol Reduction

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海報編號	發表者	演講題目
SP4-094	曾建皓 國立清華大學	Controllable Synthesis of High-Entropy-Alloy Nanodendrites for Alkaline Hydrogen Evolution Reaction
SP4-095	葉芮萍 國立成功大學	Plasma-Assisted Selective Oxidation of Methane to Methanol over Cu-CHA Zeolite Catalysts
SP4-096	何宗穎 National Tsing Hua University	Subnanometer-Thin HCP Atomic Layers for Alkaline Hydrogen Evolution
SP4-097	Suvapit Kulphanan Chulalongkorn University, Thailand	Effect of Hydrophobic Surface Modification on Cu/ZnO Catalysts for Ethanol-Assisted CO <sub>2</sub> Hydrogenation to Methanol
SP4-098	張子健 國立宜蘭大學	High-Resolution and High-Strength Yttria-Stabilized Zirconia (YSZ) Ceramics Fabricated via DLP 3D Printing: Slurry Engineering and Thermal Processing
SP4-099	張傑勝 國立宜蘭大學	Resin-Free 3D-Printed TiO <sub>2</sub> Monolithic Reactors via Carbonization and Glass Sintering for Enhanced Photocatalytic Water Treatment
SP4-100	藍宇晨 國立宜蘭大學	Burr Puzzle-Inspired Vat Photopolymerization 3D Printing of Mortise-and-Tenon Ceramic Microstructures for Enhanced Mechanical Performance
SP4-101	龍泓升 南臺科技大學	超音波輔助 NaBH <sub>4</sub> 還原製備具表面缺陷的二氧化鈦
SP4-102	Chien-Yung Lin National Taipei University of Technology	Physicochemical Characterization of Thermosensitive Hydrogels with Different Cellulose Ratios for Drug Encapsulation
SP4-103	Geng-Wei Xu National Taipei University of Technology	Effects of Additives and Antibacterial Agents on the Performance of Injectable Bone Void Fillers

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海報編號	發表者	演講題目
SP5-001	邱嘉庭 中原大學	13X 分子篩氣凝膠對生物質氣化產生之合成氣的二氧化碳吸附研究
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
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

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SP5-004	吳子豪 國立勤益科技大學	氯化鐵催化提升化學回收環氧樹脂交聯性能之研究
SP5-005	陳祐聖 國立臺灣科技大學	3D IC 構裝中之 Cu/Sn/In/Ni/Cu 多層結構之界面反應
SP5-006	Pin-Yuan Wang Ming Chi University of Technology	Synergistic Effect in ZnWO4/g-C3N4 Heterojunction for Superior Photocatalytic Performance against MB and RhB
SP5-007	曾喆驥 Ming Chi University of Technology	SERS Platform Based on Au–Se Nanowires Coupled with Machine Learning for Trace Detection of Indigo Carmine in Foods
SP5-008	顏家和 國立中央大學	Investigation of CO2 Absorption Behavior and Solvent Regeneration for Monoethanolamine Solution and Ethylene Glycol–4-Aminopyridine Deep Eutectic Solvent
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
SP5-010	呂柏諺 國立清華大學	Development of an Integrated Device System for Accelerated High-Throughput Screening of Engineered E. coli Colonies
SP5-011	宋昀蓁 元智大學	以生物炭異質介面選擇性捕捉海水中鈣鎂作為綠色化工原物料應用
SP5-012	Yun-Shiuan Yeh National Cheng Kung University	Carbon-captured microalgae with tailored surface chemistry as fillers for sustainable polyurethane foam composites
SP5-013	邱佑澤 國立臺灣科技大學	飛灰水洗液資源化與焚化飛灰玻璃化處理之研究
SP5-014	陳禹安 國立成功大學	H2-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
SP5-016	陳毓升 國立高雄科技大學	The optimal nutrient levels in the medium with microalgae for protein production under mixotrophic cultivation
SP5-017	蘇唯愷 逢甲大學	Effects of ionic liquids on the Cr6+ reduction and dye degradation performance of Bi2WO6-based photocatalysts
SP5-018	蘇浩彥 國立中央大學	DFT Investigation of Amine-Modified ZIF-90 for Enhanced CO2 Adsorption
SP5-019	Gentaro Takeuchi Kansai University, Japan	Production of High-Surface-Area Activated Carbon from Spherical Carbon

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SP5-020	陳毓勝 國立臺灣大學	Optimizing CO <sub>2</sub> Capture Process Design: Integrating Amine Degradation for Enhanced Efficiency and Economic Viability
SP5-021	黃少謙 中原大學	Preparation of a Tagetes erecta-extracted lutein and bacterial cellulose composite film for blueberry preservation
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
SP5-023	孫翊愷 義守大學	兼具隔熱與永續塗層設計-稻殼灰衍生 SiO <sub>2</sub> 與矽氧烷改質技術之特性研究
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
SP5-025	林信華 國立中興大學	Self-Assembly of Serpent Coral-Inspired Hierarchical Structures for Heat Dissipation
SP5-026	陳仔蝶 國立高雄科技大學	Preventive effects of Sargassum crassifolium extract on oxidative stress and tissue damage in Litopenaeus vannamei exposed to polyethylene microplastics and copper
SP5-027	Chang-Sheng Wu Chung Yuan Christian University	Superhydrophobic PVDF Membranes Prepared by VIPs with Alkyl-Modified Nanoparticles for Advanced MD
SP5-028	Hsuan Jou- Chiang Chung Yuan Christian University	Eco-friendly Bulk Modification of VIPs Membranes for Enhanced Hydrophilicity and Antifouling Performance
SP5-029	Yu-Ming Chuang National Cheng Kung University	Composite Coatings of Decolorized Coffee Waste and Porous PLA for Enhanced Daytime Radiative Cooling
SP5-030	葉育誠 國立中山大學	以電驅動酸鹼值震盪法進行二氧化碳捕獲之效能評估
SP5-031	黃鈺偉 國立臺灣大學	Sustainable Insect Biorefinery: Process Simulation of Biofuel Production from Black Soldier Fly
SP5-033	蘇祺允 國立陽明交通大學	Facile evaluation of solar-driven photocatalytic degradation of organic dyes using graphitic carbon nitride and titanium dioxide photocatalysts
SP5-034	Ding-Han Lai National Chin-yi University of Technology	Design of Ag@CN/TCPP Inorganic–Organic Heterojunctions for Boosted Charge Separation and Photocatalytic Efficiency
SP5-035	陳彥璋 國立臺灣大學	Phosphorus-containing substances Sensing Technology Development
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

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SP5-037	Che Hao Chang Ming Chi University of Technology	Electrocatalytic Approach for Biodiesel Production
SP5-038	Chih-Hsuan Hu Ming Chi University of Technology	Fenton Degradation of Organic Pollutants: Methyl Violet Removal Using Calcium Ferrite Catalyst
SP5-039	Yung-Hsin Hsieh National Taiwan University	Machine Learning-Assisted Design of Coke-Resistant Catalysts for Dry Reforming of Methane
SP5-040	祝維呈 長庚大學	有機改質蒙脫土與 PVDF-HFP 高分子雙摻合提升錫鉛鈣鈦礦太陽能電池之效率與穩定性研究
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
SP5-043	邱棚晨 國立宜蘭大學	Application of Biomass-Derived Carbonization Strategy in DLP-3D Printed TiO <sub>2</sub> Reactors: Enhancing Structural Integrity and Surface Accessibility
SP5-044	Huan-Yu Lee Chang Gung University	Stepwise Solar-Driven Tetracycline Degradation and CO <sub>2</sub> Reduction over Cu-Doped SnS <sub>2</sub> with Sulfur Vacancies
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
SP5-046	李承宗 明志科技大學	以 Wrc STOAT 套裝軟體建立活性污泥法 1 號模型(ASM#1)-以廢水處理廠為例
SP5-047	蔡景崧 明志科技大學	Solid-base Catalysts from Rice Husk Waste for Biodiesel Production
SP5-048	高亮瑄 國立雲林科技大學	使用 Aspen plus 流化床單元對生物質氣化模擬與製程改善
SP5-049	林郁霖 國立臺灣大學	Investigating the Surface Tension Anomaly in Ultradilute Aqueous Electrolytes Using Molecular Dynamics Simulations
SP5-050	林筱諺 國立中興大學	仿尤利西斯蝴蝶光子晶體之色彩調控與應用
SP5-051	莊凱婕 國立中央大學	Disruption of Endosomal Membranes Induced by pH-Responsive Gemini Surfactants for Intracellular Delivery of DNA
SP5-052	張育綺 國立成功大學	Study on the Optimization of Hydrodistillation and Microemulsion Formulation for Tea Tree Oil

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SP5-054	紀泓維 國立清華大學	Mechanism of Silane Film Deposition by Drop Casting for Metal Surface Modification
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
SP5-056	嚴承歆 國立中央大學	Ketamine-Induced Modulation of Lipid Membrane Phase Separation
SP5-057	鄭湘蓉 國立中央大學	Development of a Bi <sub>2</sub> Se <sub>3</sub> /MoS <sub>2</sub> Biosensor for Early Diagnosis of Alzheimer's Disease
SP5-058	余雅柔 國立臺北科技大學	第一性原理 COSMO-RS 模型於 Ciprofloxacin 及 Norfloxacin 共晶形成之預測
SP5-059	Jui-Yuan Kuo National Taiwan University	Non-Equilibrium Thermodynamic Analysis of Selected Non-reductive CO <sub>2</sub> Conversion Pathways to Value-Added Chemicals
SP5-060	謝竺君 國立高雄科技大學	應用微米 T-ZnO@十八硫醇/BaSO <sub>4</sub> NPs@硬酯酸鋅製備無氟、輻射冷卻、超疏水、防蝕、抗菌塗層之研究
SP5-061	林育萱 國立清華大學	Ni-Bi-Sb 三元系統相平衡
SP5-062	詹博丞 國立中正大學	FeCoNiCu 合金與無鉛錒料之界面反應與電遷移行為探討
SP5-063	張靖朋 國立中正大學	低密度耐火高熵合金與 Al 系硬錒料之界面反應研究
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
SP5-065	馮冠霖 國立中正大學	微量 Ge 添加對 Sn-2Ag 錒料與無電鍍 Co-P 界面反應影響之研究
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
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
SP5-069	陳品璇 國立臺灣科技大學	矽光子異質整合用高熱導率有機/無機混成黏合劑之開發
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



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SP5-072	李靜欣 國立清華大學	Rapid Detection of Impurity Particles in Etching Solutions Using Electrospray-Differential Mobility Analysis
SP5-073	Khang Nhat Nguyen National Tsing Hua University	Surface functionalization of Stainless Steel Using Self-Assembly of Silane-Nanoparticle composite colloid
SP5-074	王奕翔 國立臺北科技大學	Perovskite–Polymer Hybrid Triboelectric Nanogenerators with output for Self-Powered Electronics
SP5-075	高翊華 國立臺灣大學	Fabrication of Dense Silicon Carbide Ceramics via High-Solid-Loading Slurry Processing
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
SP5-077	陳品蓁 國立中正大學	Applications of Aldehyde-Functionalized Heat-Shrinkable Films in Immune Biosensing
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
SP5-079	Hung-Yi Chi National Taiwan University	Nanofilms of Total Wetting Liquids and the Wetting-dewetting Transition of Liquid Nanoplugs in Graphene Nanoslits
SP5-080	王詠靖 國立臺灣大學	Spontaneous Spreading dynamics of precursor film on smooth surface
SP5-081	陳健鴻 國立雲林科技大學	Fucoidan Modulates Physicochemical Properties of Catanionic Vesicles
SP5-082	蕭啓倫 國立雲林科技大學	Nanocarriers Utilizing Insect Oils as Sustainable Lipid Sources: Investigating the Effects of Mixed TPGS/ASCDP Surfactants on Their Physicochemical Properties
SP5-083	柯辰逸 國立臺灣科技大學	以甘油助力之超高速 VIPS 製程產生雙連續結構與高通量的對稱型 PVDF 膜
SP5-084	馮力曦 國立臺灣大學	Constructing Binodal, Spinodal, and Plait Points via Analytical Derivatives in the COSMO-SAC Framework
SP5-085	吳禹謙 國立成功大學	Identifying Elastic Network Parameters via Physics Informed Neural Network
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
SP5-087	陳芄謀 中國醫藥大學	Engineering Room-Temperature Monolayer Graft on Atomically Flat Silicon Surfaces

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SP5-088	曾晨星 國立中央大學	Prediction of Fluid Phase Equilibria by Integrating COSMO-SAC and PC-SAFT Equation of State
SP5-089	吳笠聖 國立清華大學	Improving the condensation reaction of maleic anhydride and ethylene glycol using microfluidic technology