

# 2025

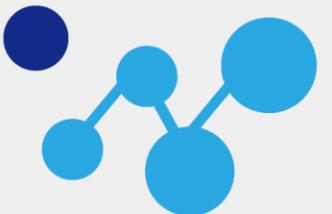
## 中華民國 高分子學會年會

---

1/15 - 1/16 朝陽科技大學



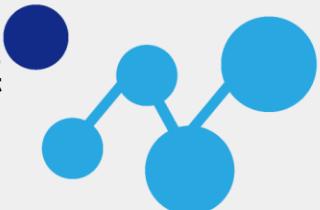
# 海報論文競賽 得獎名單



# 海報論文競賽

佳作

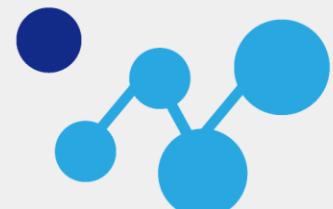
- (P1-B-23) 特殊潤濕性奈米碳管/高分子複合薄膜製備及其在乳化液分離之應用 (王志逢、王展浩、吳荷莉、簡友立 | 國立中山大學)
- (P1-B-15) Enhancing Adhesion and Antibacterial Properties of Copper Nanowire on Polyurethane Substrates via Polydopamine-Mediated Surface Modification (程耀毅、楊博堯 | 國立臺北科技大學)
- (P1-B-16) Synthesis of Thermoplastic Polyurethane from Two Bio-Based Materials and Preparation of Zinc Oxide Nanocomposites (程耀毅、陳泳潔 | 國立臺北科技大學)
- (P1-C-4) Radiation-Sensitive CF127/HA Hydrogel for Targeted and Sustained Doxorubicin Delivery in Glioblastoma Therapy (吳宗昀, Yen Pha Bui, 陳玉暄, 蔡協致 | National Taiwan University of Science and Technology, National Synchrotron Radiation Research Center, Buddhist Tzu Chi Medical Foundation)
- (P1-C-23) Photo-Healable Fibers: Recycled TPEE and Azobenzene-Containing Polymer Blends (徐彥紳、林于鈞、蔡宗宏、林靄、陳羿帆、何治浩、郭凱全、陳俊太 | 國立陽明交通大學、工業技術研究院)
- (P1-C-26) Visible light-driven RAFT miniemulsion polymerization mediated by hydrophobic deep eutectic solvents (黃允侖、游聲盛 | 國立成功大學)
- (P1-D-14) Enzymatic Biodegradation of PLA/PBAT Polymer Blends and Multilayer Films (趙家輝、甘宜禾、劉德賢、陳昀蓉、鄭力誠 | 國立高雄科技大學)



# 海報論文競賽

佳作

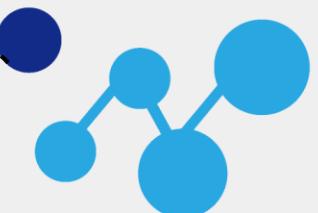
- (P1-D-21) 探討以靜電紡絲摻雜3A族金屬的多晶碳化矽纖維於不同熱解條件下的性質 (余旻翰、劉哲志、賴昭宇、陳宜杰、葉竣銘、周鶴修 | 國立清華大學)
- (P1-D-22) Study on the Modification of Quantum Dots for Membrane Separation in Oil/Water Emulsions (陳佩辰、李季燃、蔡惠安、李魁然 | 中原大學)
- (P1-A-4) 煅燒型含鈷硫摻雜芳香族聚脲做為陰離子交換膜燃料電池陰極觸媒之研究 (陳勃政、何國賢、羅翊桓、曾哲儒 | 國立高雄科技大學)
- (P1-A-7) Osmotic Power Generation System with Antifouling Diblock Copolymer-Modified Ion-Selective Membrane (廖涵湄、葉禮賢、黃俊仁 | 國立中央大學、中原大學、國立台灣科技大學)
- (P1-A-8) 利用量子力學計算開發網狀與線性光催化高分子應用於二氧化碳還原反應 (梁軒維 | 國立台灣大學)
- (P2-D-8) Tailoring the Molecular Weight of PSS for the Stretchable Wet-Spun PEDOT:PSS Conductive Fibers (胡杰東、羅泓騏、吳冠毅 | 國立臺北科技大學)
- (P2-D-15) Alkaline Surface Treatment and Elastic Polymer Protective Layer for Enhancing Conductive Fiber Strain Sensors (黃柏均、洪聯強 | 國立中正大學、南臺科技大學)



# 海報論文競賽

佳作

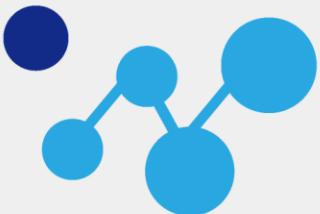
- (P2-D-31) 生質呋喃共聚酯彈性纖維開發 (邱聖元、陳錦文 | 國立臺北科技大學)
- (P2-C-10) Symmetry-Driven Decoupling of Carrier Mobility and Mechanical Properties in Polymer Semiconductors (康仲傑、洪資茗、Shahid Khan、石健忠 | 國立雲林科技大學)
- (P2-C-12) Preparation of Degradable and Closed-Loop Recyclable Polyacetal Systems Derived from Waste Polycarbonate (陳怡君、林慶炫、鄭如忠、陳彥中、劉宇欣、李銘倫、李厚緯 | 國立中興大學、國立台灣大學)
- (P2-C-28) Preparation of tannic acid-loaded oxidized alginate hydrogels and their therapeutic potential in wound healing (王柏竣、楊博智 | 元智大學)
- (P2-A-9) 濕潤環境中可控動態摩擦的皺摺化仿生結構設計 (Hzin-Yi Chou, Han-Yu Hsueh | 國立中興大學)
- (P2-A-15) Studies on Polyimide Containing Benzimidazole in Main Chain and Application in Lithium-Ion Battery Separator (盧郁翔、賴昱翔、王怡仁 | 國立雲林科技大學)
- (P2-A-28) Self-Assembly of Serpent coral-Inspired Hierarchical Structures for Heat Dissipation (林筱諺、林信華、薛湘雯、楊宏達 | 國立中興大學)



# 海報論文競賽

佳作

- (P2-B-23) 尺寸受限之MXene奈米片應用於自供能永續智慧紡織品與其對環境修復之協同效應 (王郁辰、Archana Pandiyan、Loganathan Veeramuthu、郭靈慶 | 國立臺北科技大學)
- (P2-B-6) Designing Amphiphilic AAO Membranes by Using UV-Induced Thiol-Yne Chemistry: Fabrication and Potential Applications (Po-Hsin Fan, Lin-Ruei Lee, Yi-Fan Fan, Ming-Hsuan Chang, Yu-Chun Liu, Chun-Chi Chang, Jiun-Tai Chen | 國立陽明交通大學、新世代功能性物質研究中心)
- (P2-B-7) Luminescent lanthanide-containing alginate/SiO<sub>2</sub> nanocomposite hydrogels for sensing applications (Yu-Yun Hsu, Yi-Cheun Yeh | 國立臺灣大學)
- (P3-A-9) Zn-6mna MOF Embedded Thin-film Polymer Electret in OFET Memory (周紀騰、李君婷、羅承慈 | 國立臺灣師範大學、國立臺灣科技大學)
- (P3-A-11) Designing High-Efficiency Photocatalysts—Insights from a Photo-Assisted Kelvin Probe Force Microscopy Study (張家茂、林廷翰、張胤萱、吳明忠 | 長庚大學)
- (P3-A-21) Redox-stable and Electrochromic Poly(amide-imide)s with N,N,N',N'-Tetraphenyl-p-phenylenediamine Units (黃柏惟、蕭勝輝 | 國立臺北科技大學)
- (P3-C-16) 以綠色製程製備雙重藥物載體用以誘導抗藥性肺癌細胞死亡作用 (陳柏堯、彭淑芬 | 中國醫藥大學)



# 海報論文競賽

佳作

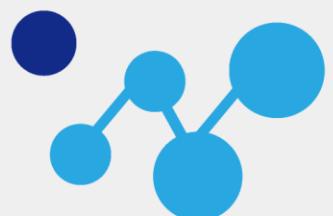
- (P3-C-20) Self-Assembly of Slender Springtail-Inspired Hierarchical Structures for Superhydrophobic/Self-Cleaning Coatings (薛湘雯、陳芋誼、羅羽真、楊宏達 | 國立中興大學)
- (P3-C-22) 藥物釋放型可降解抗脫垂支架之研究 (郭藝華、劉士榮 | 長庚大學)
- (P3-C-32) 環己烷骨架之脂環族二酸酐合成與其衍生之聚醯亞胺結構對介電特性影響研究 (沈彥蓁、鍾凱城、蘇威儒、陳志堅 | 國立臺灣科技大學)
- (P3-C-44) Behaviors of Micelles and Thermal Gels of PBL-PEG/Laponite Nanocomposites (游芝蓉、孫一明 | 元智大學)
- (P3-C-53) Enhanced Brain-Targeted Drug Delivery: Thermosensitive Nanogels with Improved Mechanical Properties (廖丞漢 | 國立臺灣科技大學)
- (P3-B-12) Electrical Double-Layer Transistors Comprising Block Copolymer Electrolytes for Low-Power-Consumption Photodetectors (林泓安、翁逸勳、鄺芳瑩、羅承慈、林彥丞、陳文章 | 國立臺灣科技大學、國立成功大學、國立臺灣大學)
- (P3-B-21) 開發P3HT/MWCNT電磁干擾屏蔽複合材料 (賴穎瑋、吳芊玲、李宜桓 | 國立臺北科技大學)



# 海報論文競賽

佳作

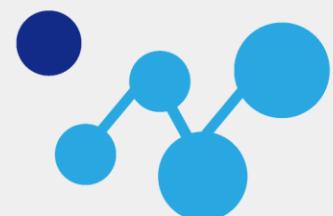
- (P3-B-29) Effect of sulfobetaine dopamine nanoparticles on the pervaporation performance of polyamide/polyethersulfone nanocomposite membrane (黃浩、黃灝萱、李季燃、蔡惠安、李魁然 | 中原大學)
- (P4-B-43) 多功能石墨烯/氮化硼/熱塑性聚氨酯混成薄膜應用於個人式冷氣裝置之智慧服飾 (王瑞新、宋語謙、李嘉文、蔡維溢、邱智璋 | 國立臺灣科技大學、工研院、國立臺灣大學)
- (P4-B-46) Fabrication of Multicomponent Hybrid Coatings Using Vapor Phase Sublimation and Deposition (王蕙萱、陳賢輝 | 國立臺灣大學)
- (P4-B-47) Main chain type benzoxazine incorporating double-deckered silsesquioxane for high thermal stability electronic packaging material (陳惠雯、Mohamed Gamal Mohamed、郭紹偉 | 國立中山大學)
- (P4-A-2) Interpenetrated Polymer Network Comprised of Sulfonated Chitosan and Polyrotaxane and the Application in Artificial Solid Electrolyte Interphase (A-SEI) for the Anode in Lithium-ion Batteries (婁家愷、趙基揚 | 國立臺灣大學)
- (P4-A-14) Development and Application of Functional Mesoporous Silica Interlayer Materials for Lithium-Sulfur Batteries (楊舒婷、張紹強、吳佳怡、葉昀昇 | 國立中山大學)
- (P4-A-27) Fabrication of Supramolecular Functional Azopolymer Surface Grating for Optical Sensor (王典舜、黃政偉 | 國立高雄科技大學)



# 海報論文競賽

佳作

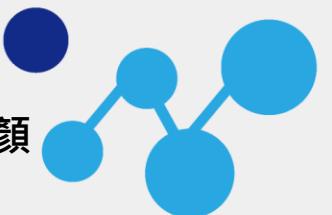
- (P4-C-5) Developing 3D-Printed Small-Diameter Vascular Grafts for Blood Vascular Regeneration (黃丹那、王潔 | 國立清華大學)
- (P4-C-18) 孔洞高分子材料的製備與設計 (林弘舜、高揚晉、郭紹偉 | 國立中山大學)
- (P4-C-20) 透過三維金奈米線結構之SERS基板檢測水污染物 (岳鼎家、吳昱蓁、陳美玉、葉士賢、陳韻竹、王冠勛、劉定宇 | 明志科技大學)
- (P4-B-6) Antireflective and Impact-Resistant Structures Inspired by Taiwan Rhinoceros Beetles (陳芋誼、曾柏翰、鄭雅蓮、楊宏達 | 國立中興大學)
- (P4-B-16) Semiconducting Carbon Nanotubes Demonstrating Photo-Gated Performance in Phototransistor Memory Enabled by N-Type Conjugated Polymer Sorting (董亦軒、林彥丞 | 國立成功大學)
- (P4-B-23) Multicomponent porous structures fabricated by vapor sublimation and deposition (曹紀妍、張育銘、陳賢輝 | 國立臺灣大學)



# 海報論文競賽

優等

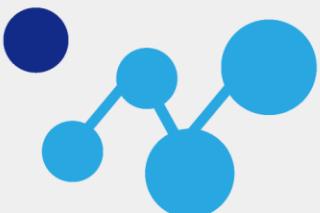
- (P1-B-17) Synthesis of Curved Copper Nanowires Using Sodium Formate (程耀毅、李其霖 | 國立臺北科技大學)
- (P1-C-13) Through Backbone Engineering and Doping Optimization to Controll Thermoelectric Performance in Naphthobisthiadiazole-Based Donor-Acceptor Conjugated Polymers (彭鈺棋、丁建發、Kodai Yamanaka,、洪紹桓、陳冠霖、林智敏、童世煌、Itaru Osaka 、劉振良 | 國立臺灣大學、Hiroshima University、National Synchrotron Radiation Research Center)
- (P1-C-14) 以廢棄聚碳酸酯衍生之芳香族胺類製備可降解聚(碳酸酯亞胺)類玻璃態高分子及環氧樹脂固化物 (許勝帆、李福機、張孟淵、游靜沛、穆品齊、陳怡君、林慶炫 | 國立中興大學)
- (P1-D-13) Biobased Polyesters Comprising Isosorbide and Dimer Diol/Diacid with Low Carbon Emissions and Dielectric Constants at High Frequencies (蔡怡安、林彥丞 | 國立成功大學)
- (P1-B-29) Unveiling the Effect of Alkylthio and Alkyl Side Chains on Thermoelectric Properties in Poly(thienylene vinylene)/Carbon Nanotube Nanocomposites (蕭亦佐、西山滉哉、吳維妮、童世煌、東原知哉、劉振良 | 國立臺灣大學、Yamagata University)
- (P1-D-24) Preparation of SAN@PVA composite aerogels crosslinked by glutaraldehyde with high efficiency filtration for PM2.5 (陳昱愷、童世煌 | 國立臺灣大學)
- (P1-A-29) 透過多巴胺介導還原銀奈米粒子製備有機-無機複合藍光鈣鈦礦應用於高效發光二極體 (方孟修、顏禎里、張植淵、郭靄慶 | 國立臺北科技大學)



# 海報論文競賽

優等

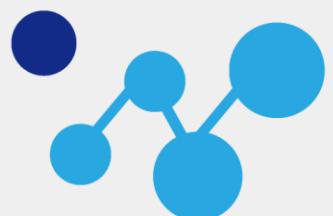
- (P1-A-16) Effect of Intermolecular Interaction on Crystal Orientation in Microdomains Formed by Block Copolymer Blends (謝嘉珮、羅介聰 | 國立成功大學)
- (P2-D-23) Development of Ultra-Stretchable and Flexible Hybrid Electronics for ECG and EMG Applications (李嘉文、黃晨洋、周伯鴻、陳建勛、蔡維溢、邱智璋 | 國立臺灣科技大學、聚陽實業股份有限公司跨領域創新中心)
- (P2-D-26) Multifunctional Electrospun Nanocomposite Fibers for the Detection of Various Biomarkers in Exhaled Breath (謝定宏、游皓雲、張胤萱、林廷翰、吳明忠 | 長庚大學)
- (P2-C-6) Development of low dielectric biobased polyester with dimer diol (李玉瓊、林彥丞、陳文章 | 國立臺灣大學、國立成功大學、台大前瞻綠色材料高值化研究中心)
- (P2-C-26) Nucleic Acid-Based Nanomaterial for Targeted Antibacterial Therapy (張耘瑄、詹正雄、陳宇楓 | 國立成功大學、國立台東大學)
- (P2-A-17) Main-chain engineering of polymer photocatalysts with oxidation-tuning sulfur segments for enhanced active site density for photocatalytic hydrogen evolution (黃則傳、莊英讓、張之勵、林韋澄、孫語恩、黃翊展、黎秉衡、周鶴修 | 國立清華大學)
- (P2-A-25) Anisotropic Ionic Transport in Polymer Solid Electrolyte (王煜祺、楊舜智、陳嘉晉 | 國立臺灣大學)



# 海報論文競賽

優等

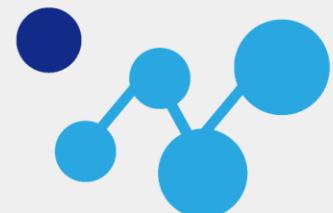
- (P2-B-4) Modulating the structural and mechanical properties of luminescent triple-crosslinked gelatin/alginate hydrogels through lanthanide ions for sensing applications (吳淑櫻、葉伊純 | 國立臺灣大學)
- (P2-B-19) High-Performance Stretchable Thermoelectric Films Based on Ladder-Type Conjugated Polymer/Carbon Nanotube Composites Blended with SEBS Elastomer (陳翔仁、鄭晴寶、曾啟鈞、林孟儂、林智敏、童世煌、鄭彥如、劉振良 | 國立臺灣大學、國立陽明交通大學)
- (P3-A-13) Morphologies of Surface Perforations and Parallel Cylinders Coexisting in Terraced Films of Block Copolymer/Homopolymer Blends with Oxygen Plasma Etching (林芳平、孫亞賢、簡怡晴、楊昕潼、陳軍佑、林智敏 | 國立成功大學、國立中央功大學、國家同步輻射研究中心)
- (P3-A-17) Co-Assembly of Lead Bromide Complexes with Polystyrene-block Poly(ethylene oxide): Impact on Crystallization and Photoluminescence Performance of Methylammonium Lead Bromide Nanocubes (劉家良、鍾彭、趙柏誠、孫亞賢 | 國立成功大學)
- (P3-C-15) Carbon-Sequestering Thermoelectric Devices from Waste-Derived Biomimetic Spider Silk (許志璋、吳亘承、陳文章、劉振良 | 國立臺灣大學)
- (P3-C-26) 水溶性二氧化碳基質聚碳酸酯與可降解型高分子交聯劑水凝膠之製備及其機械性質與抗菌性質研究 (柯炆欣、陳致光 | 國立中山大學)



# 海報論文競賽

優等

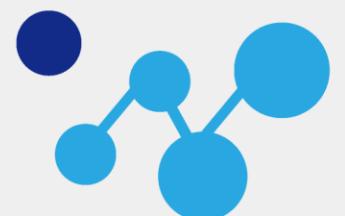
- (P3-C-36) Anion Exchange Hydrogel Membranes with Tunable Properties for Acid Recovery via Diffusion Dialysis (高文恩、孫一明 | 元智大學)
- (P3-C-51) Development of a Green Process for Superhydrophobic Coatings via Chemical Vapor Deposition (CVD) (石瀅瑄、張育民、王允杉、陳賢輝 | 國立臺灣大學)
- (P3-B-10) Polymeric ionic Liquid-Functionalized Aramid Nanofiber as Nanodispersion Agents for Fabrication of Polyethylene Oxide/Boron Nitride Nanosheet Composite Polymer Electrolytes (蔡靜紋、方辰羽、葉昀昇 | 國立中山大學)
- (P3-B-19) 金屬離子結合氧化石墨烯自組裝氣體分離薄膜之研究 (李芳綺、胡蒨傑 | 國立臺灣科技大學)
- (P4-B-48) Development of High-Toughness, Self-Healing Energetic Thermoplastic Polyurethane Elastomers for Propellant Applications (林彤煥、郭紹偉、林曼杰、蔡明謙 | 國立中山大學)
- (P4-B-50) 表面改質鋯鈦酸鉛/聚偏二氟乙烯-三氟乙烯壓電複合薄膜及其奈米發電機之應用 (黎軒瑄、陳建勛、李嘉文、邱智瑋 | 國立臺灣科技大學)
- (P4-A-8) Accessing the Laves Phase of Block Copolymer/Homopolymer Blend via Thermal Processing (蔡佳霓、陳信龍 | 國立清華大學)



# 海報論文競賽

優等

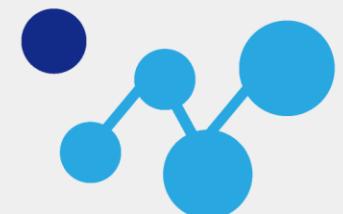
- (P4-A-26) Frbrication of Face-Centered Cubic Spheres in Block Copolymer/Nanoparticle Nanocomposites (林琨洺、朱哲毅 | 國立中興大學)
- (P4-C-1) Structural Characterization of Curcumin-Loaded Polyurethane Films towards Wound Dressing Applications (鄭元淇、哲毅、陳奕君 | 國立中興大學)
- (P4-C-23) Tailored growth of polypyrrole nano-arrays on carbon paper followed by glucose oxidase immobilization using polyethylenimine for salivary glucose biosensor (劉馨豪、潘俐仔 | 國立清華大學)
- (P4-B-9) Development and Investigation of Organic/Inorganic Hybrid Coating For Anti-Corrosion Application (蘇奕誠、黃政偉 | 國立高雄科技大學)
- (P4-B-17) 具仿生結構之聚亞醯胺/氧化鋅複合材料之製備、鑑定及其在氣體感測元件上之應用研究 (曾惠筠、葉瑞銘 | 中原大學)



# 海報論文競賽

特 優

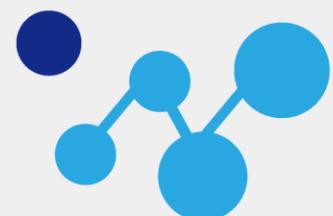
- (P1-A-26) A Comprehensive Investigation of Entropy Changes in Thermogalvanic Co-solvent Systems (許靖頡、劉振良 | 國立台灣大學、臺灣大學前瞻綠色材料高值化研究中心)
- (P1-B-28) 高分子摻和系統誘導皺褶顆粒狀仿生表面應用於微流道 (阮婕筠、張閎淇、薛涵宇 | 國立中興大學)
- (P1-C-7) Zwitterionic Hydrogel Coatings via Silatrane Chemistry (Chih-Yu Chen, Hao-Ting Lin, Yong-Jia Ciou, Guan-Cheng Chen, Van Truc Vu, Chun-Jen Huang | 國立中央大學)
- (P1-D-8) Fabrication of Self-Healable, Stretchable Fibers for Advanced UV-Sensitive Sensors through Electrospinning Technology (蘇姍瑄、駱則瑜、張家維、李林叡、林桓緯、李美麗、陳俊太 | 國立陽明交通大學)
- (P2-D-9) Leveraging ASE for Advanced Nonvolatile Memory: Optical Enhancement with Electrospun Nanofibers in Photonic OFETs (施昕豪 | 國立臺灣大學、前瞻綠色材料高值化研究中心)
- (P2-C-2) Poly(vinylidene fluoride) Membranes as Blood Filters via Modification with Poly(styrene-co-acrylic acid) Copolymers (施竣鄰、費安東、金奕彤、馬艾莉、葉至誠、張雍 | 中原大學)
- (P2-A-11) Novel Room-Temperature Phosphorescent Materials for High-Performance Floating Gate Memories and Synaptic Transistor Applications (黃品瑄、林彥丞、陳文章 | 國立臺灣大學、國立成功大學)



# 海報論文競賽

特 優

- (P2-B-26) 聚丙烯酸與二氧化矽顆粒穩定亞穩態球霰石並應用於重金屬吸附 (Yi-Shan Lai, Han-Yu Hsueh | 國立中興大學)
- (P3-A-6) Multi-level Nonvolatile Transistor Memory with Optical Rewritability Utilizing Reverse-Bias P-N Junction of Oriented Rod-Like Organic Molecules (林以撒、邱昱誠、林彥丞、陳文章 | 國立臺灣大學)
- (P3-C-21) Self-Assembly of Rove beetle-Inspired Hierarchical Structure Arrays for Reversible Adhesion on Rough Surfaces (葉思宜、黃允彣、劉子語、楊宏達 | 國立中興大學)
- (P3-C-31) Modifying nylon textiles with poly sulfobetaine acrylamide to obtain bioseparation capabilities and impart anti-biofouling properties (吳婞瑀、楊宜勳、周盈年 | 國立中正大學、南臺科技大學)
- (P3-B-22) Toughening Self-Healable and Recyclable PDMS Supramolecular Elastomer through End-Capping Agent Crosslinked by Metallic Salt (賴柔含、陳亦安、裘家安、陳彥亨、余曼翰、周鶴修 | 國立清華大學)
- (P4-B-52) Magnetic-Field Induced Face-Centered Cubic Spheres in Diblock Copolymer/Nanoparticle Nanocomposites (林芷瑤、朱哲毅 | 國立中興大學)
- (P4-A-16) A poly(diallyl dimethylammonium chloride) functionalized aramid nanofiber as a new dispersing agent for stabilizing hybrid solid-state Li ion conductor ("1. 郭芷妤、林群益、葉昀昇、郭紹偉 | 國立中山大學)



# 海報論文競賽

特 優

- (P4-C-9) Application of Carbazole-based Conjugated Polymers on Light-driven Hydrogen Evolution Reaction (張程豪、葉仔健、賴育英 | 國立臺灣大學)
- (P4-B-27) 生質型光固化不飽和聚酯合成與應用 (饒芝語、徐嘉偉、陳錦文 | 國立臺北科技大學)

