



中華民國高分子年會

2026 Annual Meeting of  
The Polymer Society, Taipei (PST)

2026/1/8-9

新竹 Hsinchu

# 海報發表及競賽

P1  
佳作

| 海報編號    | 發表者   | 演講題目   |
|---------|---|--|
| P1-A-10 | 林佳翰<br>大同大學   | 具雙極電活性單元之聚醯亞胺的合成及其有機電池材料之應用  |
| P1-A-23 | 鄧宏<br>明志科技大學  | <b>Organic Interface Engineering of the Electron Transport Layer to Boost the Efficiency of Hybrid Perovskite Solar Cells</b>  |
| P1-B-09 | 張育璋<br>國立臺灣大學   | <b>Janus bilayer poly(vinyl alcohol)-based composite hydrogels with tunable photothermal and thermoelectric properties for photothermoelectric energy conversion</b> |
| P1-B-22 | 范柏新<br>國立陽明交通大學                                       | <b>Designing Amphiphilic AAO Membranes by Using UV-Induced Thiol-Yne Chemistry: Fabrication and Anti-Counterfeiting Applications</b>                                 |
| P1-C-02 | 許翎妤<br>國立清華大學   | <b>Development of a photoactivated nitric oxide donor with in situ release and real-time monitoring through NIR-II fluorescence imaging</b>                          |
| P1-C-31 | Kai Terami<br>Osaka Institute of<br>Technology, Japan | <b>Preparation of Novel polymers with a Maleimide Derivatives and Evaluation of its Molecular Aggregation State</b>  |
| P1-D-03 | 黃柏嘉<br>國立陽明交通大學                                       | <b>Highly Conductive and Self-Healing PDES/PEDOT:PSS Elastomers for Flexible and Wearable Electronics</b>  |
| P1-D-09 | 何承恩<br>國防大學   | <b>Corrosion-Resistant, Self-Healing, and UV-Curable Poly(Urea-Urethane Acrylate) Coatings Constructed via Glycerol Crosslinking and Hindered Urea Bonds</b>         |

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佳作

| 海報編號    | 發表者   | 演講題目   |
|---------|---|--|
| P2-A-13 | 林信華<br>國立中興大學                                 | Self-Assembly of Serpent Coral-Inspired Hierarchical Structures for Heat Dissipation   |
| P2-A-17 | 鐘佐麟<br>國立陽明交通大學                               | 自組裝單層型空穴選擇材料之硫基團修飾與界面作用調控  |
| P2-B-08 | 陳銘儀<br>長庚大學                                   | Development and Self-Monitoring Application of Green Polymer Nanocomposites for Smart Sealing Gaskets                                    |
| P2-B-23 | 周琮翰<br>國立臺北科技大學                               | 以尼龍10,6與尼龍6,6為基礎之聚酯醯胺共聚物結構設計與熱熔膠性能關聯研究   |
| P2-C-03 | Jen-Yi Lee<br>Chung Yuan Christian University | Thermostable Zwitterionic Copolymer Coatings for Durable Antifouling PVDF Membranes  |
| P2-C-26 | 許喬甯<br>元智大學                                   | Synthesis and characterization of temperature- and redox-responsive poly(NIPAm-co-PEGA3-co-BAC) hydrogels for drug delivery applications |
| P2-C-34 | 黃王貞<br>國立臺灣科技大學                               | 新型脂環族二酸酐應用於光敏聚醯亞胺樹脂之可行性研究  |
| P2-D-11 | 劉昶諒<br>國立成功大學                                 | Sulfonated Polyimide with An End-Capping Crosslinking in Block Copolymers for Proton Exchange Membranes in Vanadium Redox Flow Batteries |
| P2-D-15 | 陳彥至<br>國立臺北科技大學                               | Development of Flexible Electrospun Triboelectric Acoustic Sensing Devices   |

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佳作

| 海報編號    | 發表者             | 演講題目   |
|---------|-----------------|--|
| P3-A-05 | 吳佳怡<br>國立中山大學   | Composite polymer electrolyte composed of liquid metal decorated PIL@ANF hybrid materials as lithium polysulfide trapper and catalyzer in Li-S batteries |
| P3-A-27 | 孫振捷<br>國立高雄科技大學 | Marangoni-Induced Patterning of Azopolymer Films: A Novel Route to Surface Relief Gratings and Periodic Structures                                       |
| P3-B-18 | 吳亭葦<br>國立臺灣科技大學 | Core-Shell Au@AgNPs/Nano Mica Platelets-Carbon Quantum Dots Hybrid Material for Surface-Enhanced Raman Scattering Applications                           |
| P3-B-21 | 陳泓伸<br>國立清華大學   | Complex Lattice Packing Structures of Oligosaccharide-Polyhedral Oligomeric Silsesquioxanes Block Co-oligomers   |
| P3-C-04 | 廖宥煊<br>國立清華大學   | Conductive PGSA-PVP Microgrooved Scaffolds for Enhanced Peripheral Nerve Regeneration  |
| P3-C-19 | 邱建樺<br>國立陽明交通大學 | Multifunctional Upcycled TPEE Films with MXene Multilayers via Layer-by-Layer Assemblies for Strain Sensors  |

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佳作

| 海報編號    | 發表者  | 演講題目   |
|---------|--|--|
| P4-A-14 | Ching-Wei Yang<br>National Taiwan University | Self-Assembled Amphiphilic Glycoconjugates for Bioelectronic and Photonic Applications   |
| P4-A-24 | 黃竣聖<br>國立臺北科技大學                              | Enhancing Photodetector Performance via MXene and Quasi-2D Perovskite Integration  |
| P4-B-01 | 黃傳翔<br>國立臺北科技大學                              | 含有喹啉二酮結構之聚醯亞胺的合成與性質研究  |
| P4-B-24 | 毛彥婷<br>國立宜蘭大學                                | Study on Titanium Dioxide Quantum Dots-Polyamide Composite Membrane for Nanofiltration Separation of Dye/Salt Solution             |
| P4-C-29 | 蔡明諺<br>國立臺灣大學                                | Supramolecular host-guest complexation of $\alpha$ -cyclodextrin and triiodide for high-performance ionic thermoelectric hydrogels |
| P4-C-31 | 林崧豪<br>國立中山大學                                | Application of Bioelastic Polymer-modified Photocurable Resin in 3D Printing of Medical Sinus Surgery Simulators                   |
| P4-C-12 | 曼蒞亞<br>元智大學                                  | Diffusion Dynamics of Adenosine Monophosphate (AMP) in Novel DDA-Based Anion Exchange Hydrogel Membranes                           |

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優勝

| 海報編號    | 發表者             | 演講題目   |
|---------|-----------------|--|
| P1-A-06 | 陳柏辰<br>國立陽明交通大學 | Development of an Adhesive, Self-healable, Conductive, and Photo-Responsive Poly(ionic liquid) Film  |
| P1-A-17 | 張紹強<br>國立中山大學   | Constructing Ordered Ion Channels in Ionic-Liquid-Based Electrolyte for Highly Stable Lithium-Sulfur Batteries                                     |
| P1-B-01 | 林柏廷<br>國立臺灣科技大學 | Zr <sup>4+</sup> -Coordination Strengthened Polyelectrolyte Conductive Hydrogels for Enhanced Mechanical Stability and Anti-Swelling Properties    |
| P1-B-21 | 賴柔含<br>國立清華大學   | Supramolecularly Engineered Polyurethane Ion-Conductive Elastomers with Hierarchical Phase Structures and Self-Healing Ability                     |
| P1-C-15 | 姚律銘<br>國立臺灣科技大學 | 新型負型感光性聚醯亞胺的開發   |
| P1-C-21 | 易韋廷<br>國立清華大學   | Effect of double hydrophilic block copolymer composition on folic acid-functionalized BCNO nanodrug assembly                                       |
| P1-D-15 | 張家齊<br>國立臺灣科技大學 | Polyacrylonitrile/Terpolymer Self-Healing Flexible Nanofiber Electrodes Based Fabricated by Coaxial Electrospinning for Smart Clothing Application |

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優勝

| 海報編號    | 發表者           | 演講題目   |
|---------|---------------|--|
| P2-A-08 | 林豐祐<br>國立清華大學 | Reveal the Structure-Packing-Mobility Relationship in ortho-Benzodipyrrole-Based Non-fullerene Acceptors           |
| P2-A-24 | 蕭晴文<br>國立中山大學 | Functionalized Imine Covalent Organic Frameworks with Tunable Azide Content and C60 Conjugation via Click Reaction |
| P2-B-11 | 邱子杰<br>國立清華大學 | Microfluidic Synthesis Integrated with Real-time Analytical Technologies for Controlled Hydrogel Production        |
| P2-B-28 | 蔡瑜芳<br>國立中興大學 | 無電電鍍製備金屬@聚氨酯核殼結構複合材料之水下吸聲性能研究  |
| P2-C-15 | 張嘉俱<br>國立中興大學 | Upcycling waste PET into benzoxazines with simultaneously low curing temperatures and high thermal stability       |
| P2-C-32 | 林伯禧<br>國立清華大學 | Prebiotic Modulation of the Gut Microbiota Enhances Anti-PD1 Immunotherapy and Neurobehavioral Recovery            |
| P2-D-09 | 許展豪<br>國防大學   | Functional Waterborne Polyurethane Interlayers for Improved Adhesion in Electroless Metallization                  |

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|---------|--|---|
| P3-A-04 | 吳秉祐<br>國立臺灣科技大學  | Enhanced Piezoelectric Properties of rGO/PVDF Composite Nanofibers for Self-Powered Human Motion Sensors  |
| P3-A-22 | 陳彥璉<br>國立臺灣科技大學  | Synthesis of Bisphenol A Monomers with Different Side Groups for Poly(ether ether ketone) Proton Exchange Membranes Applied in Vanadium Redox Flow Battery  |
| P3-B-01 | Kawinnapat Pimsorn<br>National Taipei University of Technology | Engineering long-range ionogels for biocompatible and durable wearable ionotronic health care system  |
| P3-B-33 | 王筠婷<br>國立中央大學  | Formation of Zwitterionic and Self-Healable Hydrogels via Amino-yne Click Chemistry for Development of Cellular Scaffold and Tumor Spheroid Phantom for MRI |
| P3-C-06 | 林佑容<br>國立臺北科技大學  | Development of a Bio-Based Dynamic Crosslinking Network System for High-Performance EMI Shielding   |
| P3-C-27 | 陳彥全<br>國立臺灣大學  | A Non-phosgene Synthetic Route to Glycidyl Carbamate Resins from Wasted Polycarbonate   |

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|---------|-----------------|---|
| P4-A-10 | 洪睿祺<br>國立臺灣科技大學 | Application of Functionalized Polybenzimidazole Membranes in Vanadium Redox Flow Batteries                  |
| P4-B-12 | 吳泰霖<br>國立臺灣大學   | Crosslinking of Zr-MOC Alginate Hydrogels via a Stepwise Gelation Strategy                                  |
| P4-C-23 | 許靜柔<br>國立臺灣科技大學 | 核心-殼層型兩性嵌段共聚物之分子設計與其在固態電解質的應用   |
| P4-A-23 | 施依岑<br>國立中央大學   | Using Graphene as Radical Scavengers to Reduce Radiation Damage to Polymers                                 |
| P4-C-02 | 張博閔<br>國立臺北科技大學 | Rare-Earth Modification for Enhanced Antibacterial Performance in Self-Healing Hydrogel Sensing Application |
| P4-B-25 | 陳怡安<br>臺中榮民總醫院  | 以新穎三元複合材料建構三維微電極並應用於細胞外囊泡表面蛋白之高靈敏檢測   |

P1  
特優

| 海報編號    | 發表者             | 演講題目  |
|---------|-----------------|---|
| P1-A-05 | 黃渝凱<br>國立臺灣大學   | High-Performance Organic Phototransistor Memory Based on Brønsted-Acid Charge-Transfer Mechanism                                |
| P1-A-24 | 李偌璋<br>國立臺灣大學   | Ion Exchange Engineering for Stable and Stretchable Donor-Acceptor Conjugated Polymer Thermoelectrics                           |
| P1-B-05 | 章祐華<br>國立臺灣大學   | Recombinant Spider Silk and Graphene Oxide Synergized PEO-based Solid Electrolytes for High-Performance Lithium Metal Batteries |
| P1-B-24 | 高于琇<br>國立中正大學   | Effects of Mixed-solvent Media on Solution Microstructure and Thin-film Performance of Thermoplastic Polyurethanes              |
| P1-C-06 | 管采榆<br>明志科技大學   | 雙功能電化學與拉曼放大之高分子可撓式生醫檢測晶片  |
| P1-C-27 | 王德恩<br>國立臺灣大學   | Bio-based Aramid Fiber Paper Containing Purine Moiety via Bottom-up Strategy  |
| P1-D-14 | 歐俊顯<br>國立臺北科技大學 | 自癒合與導電兼具：面向新世代軟性電子的靜電紡絲纖維   |

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特優

| 海報編號    | 發表者   | 演講題目   |
|---------|---|--|
| P2-A-06 | 施暉宸<br>國立臺灣大學   | Investigation on Doping Behavior of Thiophene Based Rod-Rod Block Copolymer through Morphology Control                           |
| P2-A-26 | 梁云嫻<br>國立清華大學   | Dibenzo[b,d]thiophene Sulfone Substituted Polyacetylene for Enhanced Photocatalytic Hydrogen Evolution                           |
| P2-B-03 | 蔡宗祐<br>國立成功大學   | Effect of Thiophene Bridge Length on the Molecular Packing and Field-Effect Transistor Performance of N-type Conjugated Polymers |
| P2-B-27 | 陳建勛<br>國立臺灣科技大學   | 利用PDA表面改質ZnO/GO/P(VDF-TrFE)柔性壓電奈米發電機之製備及其應用於人體運動與自行車能量回收   |
| P2-C-11 | Mayu Mine<br>Osaka Institute of Technology,<br>Japan            | Photon Upconversion Circularly Polarized Luminescence using Polymethylmethacrylate Stereocomplex                                 |
| P2-C-28 | Archana Pandiyan<br>National Taipei University of<br>Technology | MXene reinforced spontaneously polarized PVDF-HFP nanofiber for energy generation and environmental remediation                  |
| P2-D-12 | 孫宇辰<br>國立成功大學   | 電紡尼龍6/甲酸溶液時液柱擺動行為研究  |

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特優

| 海報編號    | 發表者                                    | 演講題目  |
|---------|--|---|
| P3-A-09 | 劉兆恒<br>國立臺灣科技大學                        | 探討利用全原子分子動力學研究高分子發泡材料的可行性   |
| P3-A-23 | 甘宜禾<br>國立高雄科技大學                        | 非對稱孔洞結構及磷酸預處理之氫氧化鉀摻雜聚苯并咪唑薄膜用於鹼性水電解產氫  |
| P3-B-05 | 曾洛琳<br>國立臺灣大學                          | <b>Efficient Integration of Conjugated Polymer/SWCNT Nanocomposites into Interfacial Photo-Thermoelectric Modules for Concurrent Water and Power Generation</b> |
| P3-B-27 | Jia-Mao Chang<br>Chang Gung University | <b>Floatable Photothermal - Photocatalyst Sheet for Highly Selective Solar-Driven Carbon Dioxide to Methane Conversion</b>                                      |
| P3-C-14 | 蘇于烜<br>國立高雄科技大學                        | <b>Hybrid Type I/II benzophenone-triphenylamine oxime esters: High performance photoinitiators for visible-light photopolymerization</b>                        |
| P3-C-32 | 宋國任<br>國立臺灣大學                          | <b>Luminescent Laponite-Containing Nanocomposite Double-Network Hydrogels for Gas Sensing Applications</b>  |

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特優

| 海報編號    | 發表者             | 演講題目   |
|---------|-----------------|--|
| P4-A-02 | 楊淮旭<br>國立臺灣大學   | Single-Ion Conducting Latex Binders for Silicon-Carbon Anodes of Lithium-Ion Batteries   |
| P4-A-27 | 陳欽昱<br>國立清華大學   | Unveiling the Mechanism of Pt Photodeposition on Organic Photocatalysis via First-Principle Simulations  |
| P4-B-10 | 廖唯翔<br>國立清華大學   | High-Entropy Crosslinked Polymers for Balancing Strength and Self-Healing via Diels-Alder, Hydrogen Bonding, and $\pi$ - $\pi$ Interactions  |
| P4-B-30 | 楊欣宜<br>國立中興大學   | Vapor Pressure-Responsive Photonic Crystals with Reversibly Tunable Colors for Optical Encryption  |
| P4-C-17 | 游舒媛<br>國立臺灣科技大學 | Hydrophilic-Hydrophobic Nanohybrids of Gold Nanorods, Nano Mica platelets, and ZnO Quantum Dots as Flexible Substrates for High-Efficiency and High-Selectivity SERS Microbe Detection |
| P4-C-26 | 黃昱璇<br>國立臺灣大學   | Design and Development of Sustainable Thermoplastic Polymalonamide Membranes for CO <sub>2</sub> /N <sub>2</sub> Separation  |