

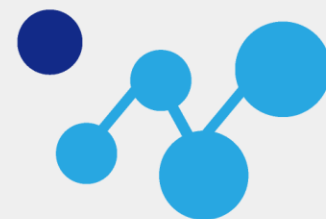
2025

中華民國 高分子學會年會

1/15 – 1/16 朝陽科技大學



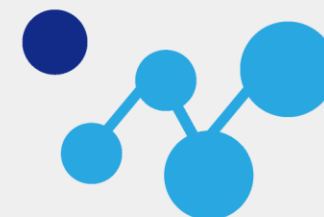
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佳作

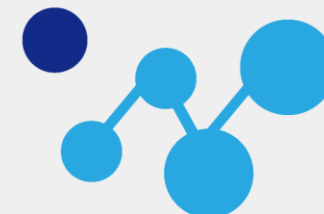
- **(E-B1-11)** Thermally-Induced Realignment of Wrinkled Patterns as Dry Adhesives (賴郁芳 | 國立中興大學)
- **(E-C1-1)** Development of cell sorting biomaterials: Purification of hiPSC-derived cardiomyocytes (張家綸 | 國立中央大學)
- **(E-A1-12)** Aromatic Side Chain effect of C-shaped ortho-Benzodipyrrole-based Nonfullerene Acceptors for Efficient Organic Photovoltaics (呂佳芳 | 國立陽明交通大學)
- **(E-A2-3)** Investigating the Influence of Metal Introduction Methods via Ionization and Coordination on the Properties of Covalent Organic Frameworks (黃翊展 | 國立清華大學)
- **(E-B2-9)** Low hygroscopic cocrystal of ammonium dinitramide(ADN) and novel dibenzo-18-crown-6 derivatives with a promising application for increasing energetic content of cocrystallization (林旻杰 | 國立中山大學)
- **(E-C2-5)** Efficient Synthesis of Poly(methyl methacrylate) via Photo-Induced ATRP Polymerization Mediated by Deep Eutectic Solvents (李惟如 | 國立成功大學)



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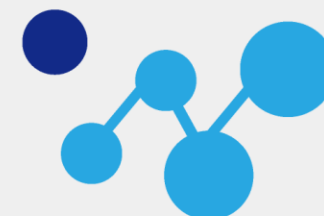
- **(E-A3-6)** Mechanically Robust and Ultrastable 2D-MOF/1D-Aramid Nanofiber Composite Membrane for Highly Efficient Osmotic Power Harvesting (龍家安 | 國立臺灣科技大學)
- **(E-B3-3)** Inducing Charge Polarity Control with Solvent Effect in Sugar-based Block Copolymer and Carbon Nanotube Composites in Thermoelectric Application (陳彥宇 | 國立臺灣大學)
- **(E-C3-1)** Catalytic hemin/peptide complex initiated reversible addition-fragmentation chain transfer polymerization (張曜宇 | 國立成功大學)
- **(E-D1-4)** Electrospun Biomass Polyethylene Furanoate Nonwoven Substrates for Flexible Thermoelectric Generators (黃以璿 | 國立臺灣大學)
- **(E-C4-9)** Printable Polypeptide-Poly(ethylene glycol)-Polypeptide Triblock Copolymer Hydrogels Based on Poly(O-benzyl-L-serine) and Poly(O-benzyl-L-tyrosine) (潘氏霞媚 | 國立成功大學)
- **(E-B4-4)** Effects of Carbohydrate Block Copolymer Architectures on the properties of Nonvolatile Phototransistor Memory (游秉叡 | 國立臺灣大學)



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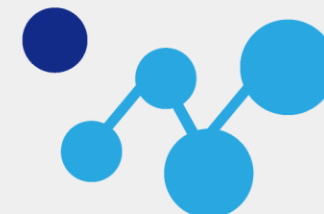
- **(E-A3-6)** Mechanically Robust and Ultrastable 2D-MOF/1D-Aramid Nanofiber Composite Membrane for Highly Efficient Osmotic Power Harvesting (龍家安 | 國立臺灣科技大學)
- **(E-B5-2)** Vapor Phase Synthesis of Coordination Polymers and Parylene-Based Composite Coatings for Bioengineering (胡書嫻 | 國立臺灣大學)
- **(E-C6-10)** Crosslinking-enabled core-shell nanostructure based on conductive polymer hydrogels/carbon nanotubes for salivary glucose biosensor (劉警豪 | 國立清華大學)
- **(E-C5-4)** Photoinduced Controlled Radical Polymerization Mediated by BiOCl Nanosheets (王笠安 | 國立陽明交通大學)
- **(E-A1-11)** Shear-Induced Alignment of Polystyrene-b-Poly (Lactic Acid) with Cylindrical Morphology and Its Impact on Grain Boundary Defects and Mechanical Properties (游子毅 | 國立中央大學)



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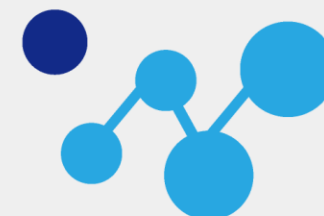
- **(E-B1-7)** Surface Functionalization of Zr-Based 2D-MOFs for Optimized Thermoelectric Properties in Carbon Nanotube Composites (林政遠 | 國立臺灣大學)
- **(E-C1-12)** Guiding Tubular Dentin Regeneration by 3D-aligned Polymer Scaffold Using Vapor Sublimation and Deposition Fabrication (陳重儒 | 國立臺灣大學)
- **(E-A1-2)** Enhanced Thermoelectric Properties of Poly(phenylene butadiynylene)/Carbon Nanotube Nanocomposites for Wearable Thermoelectric Generator Applications (施暉宸 | 國立臺灣大學)
- **(E-A2-10)** Enhanced Tetracycline Removal Through a Novel PVDF/ δ -MnO₂ Photocatalytic Membrane Reactor (劉士宏 | 中原大學)
- **(E-B2-5)** Mechanically Robust, Self-healable and Recyclable Polyurethane Elastomer via Incorporating Chain Extenders for Skin-inspired Sensing (裴家安 | 國立清華大學)
- **(E-C2-7)** Environmentally Recyclable Ionogels for Ionic Thermoelectric Supercapacitor (鄭羽嬋 | 國立臺灣大學)



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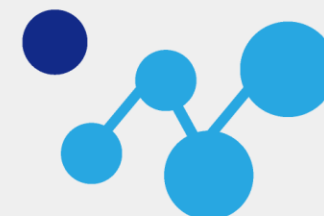
- **(E-A3-10)** Exploring the Impact of Conjugated Polymers Immobilized by Stretchable Matrix and 3D Layering for Enhanced Photocatalytic Hydrogen Production (孫語恩 | 國立清華大學)
- **(E-B3-6)** Development of 3D Printed Biodegradable Composites for Coral Regeneration (邱彥榕 | 國立清華大學)
- **(E-C3-6)** Structurally Defined Amphiphilic AAO Membranes Using UV-Assisted Thiol-Yne Chemistry: Applications in Nanopatterning, Anti-Counterfeiting, and Electronics (李林叡 | 國立陽明交通大學)
- **(E-D1-3)** Intrinsically Healable and Photo-Responsive Electrospun Fabrics: Integrating PVDF-HFP, TPU, and Azobenzene Ionic Liquids (張峻齊 | 國立陽明交通大學)
- **(E-C4-6)** Sterilizable Self-Cleaning Polycationic PVDF Membranes with Sustainable Bacteria-Killing and Releasing Capabilities for Water Treatment (Kuan-Chin Lu | 中原大學)
- **(E-B4-1)** Analysis and exploration of introducing various metal compounds into different coordination sites to improve the meshed self-healing elastomers (陳彥亨 | 國立清華大學)



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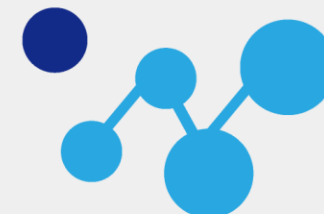
- **(E-B5-8)** Poly(Lactic Acid)-Based Composites Modified with Poly(Glycerol Maleate) (王品媛 | 國立清華大學)
- **(E-C6-1)** Gold Nanocubes/Nanoscale Mica Platelets as Flexible Substrates for High-Efficiency SERS Bacterial Biosensor (呂明璋 | 國立臺灣科技大學)
- **(E-C5-5)** Preparation of N,O-maleoyl-functional chitosan/ poly(ethylene oxide) hydrogels with a Schiff-base cross-linked structure and their controlled release application (廖元皓 | 國立中山大學)



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特優

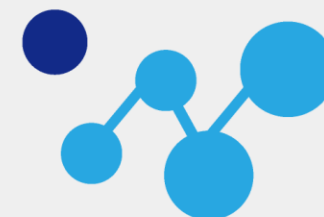
- **(E-B1-4)** Alkaline-Responsive, Self-Healable, and Conductive Copolymer Composites with Enhanced Mechanical Properties Tailored for Wearable Tech (張家維 | 國立陽明交通大學)
- **(E-C1-11)** Lab-on-the-Needles: A microneedle patch-based SenBox as mobile healthcare unit for highly sensitive ex vivo and in vivo detection of protein biomarkers (許盈培 | 國立中山大學)
- **(E-A1-7)** Unveiling the Synergistic Effect of the Incorporation of Perfluorophenyl Moiety in Benzimidazole-based Non-fullerene (曾啟鈞 | 國立陽明交通大學)
- **(E-A2-4)** Utilization of Crystalline Self-Assembled Monolayers in Biomimetic Photosynaptic Transistors toward Ultraviolet Light Protection (吳亞璇 | 國立臺灣大學)
- **(E-B2-12)** Unique Network Phases and Corresponding Phase Transitions from Self-Assembly of Chiral Triblock Terpolymers (林品樺 | 國立清華大學)
- **(E-C2-12)** Design and Synthesis of Fully Benzoxazine-based Porous Organic Polymer for CO₂ Capture (Mohsin Ejaz | 國立中山大學)



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特優

- **(E-A3-8)** A New Method to Fabricate the Squarely Packed Cylinders in Diblock Copolymer/Nanoparticle Nanocomposite Films by Low-Intensity Magnetic Field (邱文聖 | 國立中興大學)
- **(E-B3-8)** Enhanced Pervaporation Performance of Dimethyl Carbonate/Methanol Mixtures Using UIO-66-NH₂/Polyvinyl Alcohol (PVA) Composite Membranes (邱俊翔 | 中原大學)
- **(E-C3-5)** NIR-II Responsive CNT-Alginate Hydrogels for Synergistic Photothermal-Controlled Release in Cancer Treatment (賴頤禎 | 國立臺灣大學)
- **(E-D1-9)** 3D Printing of Nanoporous Polymers Enabled by Flash-Freezing (王俊叡 | 國立成功大學)
- **(E-C4-2)** Novel Low-k and Biobased Photosensitive Polyimides (劉瑜 | 國立臺灣大學)
- **(E-B4-3)** Bipolarity Adjustment in Perovskite Quantum Dots via Metal Doping for High-Performance Photosynaptic Transistors (陳威丞 | 國立臺灣大學)
- **(E-B5-6)** Preparation of Hollow Gyroid (HG) Templates Using Photodegradable Block Copolymer Hybrid System (孫婉旖 | 國立中山大學)



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- **(E-C6-5)** Enhancing Vascularization of 3D-Printed Glycerol-Based Biodegradable Scaffolds through Optimized Cell Culture Conditions (李捷菱 | 國立清華大學)
- **(E-C5-8)** Light-Tailorable Hydrogels Prepared from Polypeptide Block Copolymers for Nerve Regeneration (林軒宇 | 國立臺灣大學)

