英文口頭論文報告競賽 (E-A1)

1 月 15 日 13:30-15:21/T2-406 (4F)

評審: 陳蓉瑤 (國立成功大學)/ 朱哲毅 (國立中興大學)

發表順序	時間	題目與發表作者
E-A1-1	13:30-13:38	**The effect of methyl-substituents on electrochemical properties and supercapacitor behavior of triarylamine-based polyamides** *何泓霖 (國立臺灣大學)*
E-A1-2	13:38-13:46	**Enhanced Thermoelectric Properties of Poly(phenylene butadiynylene)/Carbon Nanotube Nanocomposites for Wearable Thermoelectric Generator Applications** *施暐宸 (國立臺灣大學)*
E-A1-3	13:46-13:54	**Bi-Functional Photothermal and Thermoelectric Hydrogel for Water Purification and Waste Heat Harvesting** *王鈺皓 (國立臺灣大學)*
E-A1-4	13:54-14:02	**High Performance Phototransistor Memory Enabled by the Mismatch of Spontaneous Orientation Polarization at the Channel/Electret Interface** *翁逸勳 (國立臺灣大學)*
E-A1-5	14:02-14:10	**Gel Polymer Electrolyte Employing Single-Ion Conducting Pathways for Lithium-Ion Batteries** *盧昱璇 (國立清華大學)*
E-A1-6	14:10-14:18	**Construction and Application of Fully π-Conjugated, Diyne-linked Conjugated Microporous Polymers for Energy Storage** *王珮慈 (國立中山大學)*
-	14:18-14:25	Break
E-A1-7	14:25-14:33	**Unveiling the Synergistic Effect of the Incorporation of Perfluorophenyl Moiety in Benzimidazole-based Non-fullerene Acceptor for Enhanced Photovoltaic Performance and Thermal Stability** *曾啟鈞 (國立陽明交通大學)*
E-A1-8	14:33-14:41	**An integrated system utilizing blue energy to electrolyze seawater for hydrogen production** *李杰叡 (明志科技大學)*
E-A1-9	14:41-14:49	**Advanced Anti-Counterfeiting: Dual-pattern Fabrication and Moiré Animation on Azopolymer Films via Linearly Polarized Lights** *張銘軒 (國立陽明交通大學)*
E-A1-10	14:49-14:57	**Emission Gain Layer of Polycaprolactone-Silver Nanoparticles with Förster Resonance Energy Transfer for High-Performance Perovskite Light-Emitting Diodes** *顏禎里 (國立臺灣大學)*
E-A1-11	14:57-15:05	**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)*
E-A1-12	15:05-15:13	**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-A1-13	15:13-15:21	**A Multi-Scale Modeling Approach to Investigate the Coefficient of Thermal Expansion in Modified Polyimide** *楊翊正 (國立臺灣科技大學)*

英文口頭論文報告競賽 (E-A2)

1 月 15 日 15:40-17:23/T2-406 (4F)

評審: 阮至正 (國立成功大學) / 林昆翰 (國立清華大學)

發表順序	時間	題目與發表作者
E-A2-1	15:40-15:48	**Pyrene-Fused Azaacene COFs: A Platform for Enhanced Conjugation and Efficient Hydrogen Evolution** *Hoang Chau Kim Dung (國立清華大學)*
E-A2-2	15:48-15:56	**Tetrabenzonaphthalene and Triphenylamine Connecting Redox-Active Anthraquinone formed Conjugated Microporous Polymers as Organic Electrodes for Enhanced Energy Storage Efficiency** *陳念萍 (國立中山大學)*
E-A2-3	15:56-16:04	**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-A2-4	16:04-16:12	**Utilization of Crystalline Self-Assembled Monolayers in Biomimetic Photosynaptic Transistors toward Ultraviolet Light Protection** *吳亞璇 (國立臺灣大學)*
E-A2-5	16:12-16:20	**N-type Semiconducting Polymers with Improved Stretchability by Using Stereoisomers as Conjugation Break Spacers** *陳明漢 (國立成功大學)*
E-A2-6	16:20-16:28	**Pyridine-Based Conjugated Microporous Polymers for Photocatalytic Hydrogen Production** *李佩容 (國立中山大學)*
-	16:28-16:35	**Break**
E-A2-7	16:35-16:43	**Piezo-catalysis property of PVDF/Graphene@Ag membranes for carbon dioxide reduction reaction** *田新源 (國立臺灣科技大學)*
E-A2-8	16:43-16:51	**Construction of Triphenylene-Based Two-Dimensional Covalent Organic Frameworks for Boosting Photocatalytic Hydrogen Evolution** *Khanh Do Gia Huynh (國立清華大學)*
E-A2-9	16:51-16:59	**Improvement of Electro-Optical Properties of Twisted Nematic Liquid Crystal Devices via Polymeric Nanoparticle Dopants** *辛孟哲 (國立成功大學)*
E-A2-10	16:59-17:07	**Enhanced Tetracycline Removal Through a Novel PVDF/δ-MnO_2 Photocatalytic Membrane Reactor** *劉士宏 (中原大學)*
E-A2-11	17:07-17:15	**Rational Design of Ultra stable Conjugated Microporous Polymers Based on Pyrene and Perylene Units as High-Performance Organic Electrode Materials for Supercapacitor Applications** *Poonam Nagendra Singh (國立中山大學)*
E-A2-12	17:15-17:23	**Application of Electrospinning Functionalized double layer Gel-State Electrolytes for Lithium-Ion Batteries** *許淘鈞 (國立臺灣科技大學)*

英文口頭論文報告競賽 (E-A3)

1 月 16 日 9:00-10:25/T2-406 (4F)

評審: 李明家(國立陽明交通大學) / 孫亞賢 (國立成功大學)

發表順序	時間	題目與發表作者
E-A3-1	9:00-9:08	**Porous Organic Polymers (POPs) for Artificial Solid-electrolyte Interface (A-SEI) of Lithium Metal Batteries** *張雅筑 (國立臺灣大學)*
E-A3-2	9:08-9:16	**Eco-Compatible Solvent Additives for Enhancing Charge Mobility in Well-Oriented Crystalline Semiconducting Polymers** *洪偉銘 (國立臺灣科技大學)*
E-A3-3	9:16-9:24	**Metal-organic framework-derived transition metal chalcogenides Thin-film Polymer Electret and Its Application in OFET Memory** *林志穎 (國立臺灣師範大學)*
E-A3-4	9:24-9:32	**Applying Microwave Irradiation to Modify the Microstructure of Conjugated Polymers in Solution and the Corresponding Thin Films** *張明浩 (國立臺灣科技大學)*
E-A3-5	9:32-9:40	**Silicon-Based Additives on Self-Assembly of Pyridine-Based Copolymers** *黃瀠萱 (國立中山大學)*
-	9:40-9:45	**Break**
E-A3-6	9:45-9:53	**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-A3-7	9:53-10:01	**Investigating the Impact of Interfacial-Active Nanoparticles on Spinodal Decomposition in Polymer Blends** *余澔 (國立臺灣科技大學)*
E-A3-8	10:01-10:09	**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-A3-9	10:09-10:17	**Preparation of Hyperbranched Polymers by Atom Transfer Radical Self-Condensing Vinyl Polymerization for Polyurethane-based Anion Exchange Membranes** *阮紅日 (國立中興大學)*
E-A3-10	10:17-10:25	**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)*

英文口頭論文報告競賽 (E-B1)

1 月 15 日 13:30-15:21/T2-406.1 (4F)

評審: 鄭彥如 (國立陽明交通大學) / 王志逢 (國立中山大學)

發表順序	時間	題目與發表作者
E-B1-1	13:30-13:38	**Near Zero Poisson's Ratio in a Surface-based 3D Printed Perforated Lattice Structure** *伊凡 (國立臺灣科技大學)*
E-B1-2	13:38-13:46	**Efficient, High-Yield, Ionized Biopolymer-Mediated Fabrication of Exfoliated MoSe2 Nanosheets with Reversible Dispersion Properties in Water** *Kumasser Kusse Kuchayita (國立臺灣科技大學)*
E-B1-3	13:46-13:54	**High-performance NF lamellar-structured GO-Amphiphilic polymer nanocomposite membrane via synthesized polymer control interlayer spacing for enhancing water permeability and precise solute rejection for water treatment** *Gefayehu Tameru Yeserah (國立臺灣科技大學)*
E-B1-4	13:54-14:02	**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-B1-5	14:02-14:10	**Advancing Nanopore Technology: Anodic Aluminum Oxide Membranes with Anisotropic Pores through Controlled Stretching** *林于鈞 (國立陽明交通大學)*
E-B1-6	14:10-14:18	**Enhancing Conductivity and Self-Healing in PEDOT:PSS/Poly(Ionic Liquid) Elastomers for Sensor Applications** *林桓緯 (國立陽明交通大學)*
-	14:18-14:25	**Break**
E-B1-7	14:25-14:33	**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-B1-8	14:33-14:41	**Synergic Ionic Liquid Systems: Light-Responsive and Self-Healable Poly(Ionic Liquid) Films Incorporating Azobenzene-Based Ionic Liquids** *吳佳諦 (國立陽明交通大學)*
E-B1-9	14:41-14:49	**Exfoliated 2D Nanosheet-Based Conjugated Polymer Composites with P-N Heterojunction Interfaces for Highly Efficient Electrocatalytic Hydrogen Evolution** *Randy Arthur Rusli (國立臺灣科技大學)*
E-B1-10	14:49-14:57	**Enhanced the conductivity of graphene oxide through conjugated polymers for multi-stimulus responsive bilayer soft actuators** *Wei-Cheng Jhao (明志科技大學)*
E-B1-11	14:57-15:05	**Thermally-Induced Realignment of Wrinkled Patterns as Dry Adhesives** *賴郁芳 (國立中興大學)*
E-B1-12	15:05-15:13	**Fabrication of Thermochromic Cholesteric Liquid Crystalline Actuation Film with Various Bending Angles** *郭仲瑜 (國立成功大學)*
E-B1-13	15:13-15:21	**Natural Photonic Crystals Inspired for Trapping of Structural Coloration** *張鶴騰 (國立中山大學)*

英文口頭論文報告競賽 (E-B2)

1 月 15 日 15:40-17:23/T2-406.1 (4F)

評審: 趙基揚 (國立台灣大學) / 蔣酉旺 (國立中山大學)

發表順序	時間	題目與發表作者
E-B2-1	15:40-15:48	**Synthesis of Zwitterionic Dopamine Nanoparticles to Prepare Polyamide Thin-Film Composite Pervaporation Membranes for Separation of Isopropanol-Water Mixtures** *劉宜亭 (中原大學)*
E-B2-2	15:48-15:56	**3D printing ultra-tough double network ionogel with jammed microgel-poly(vinyl alcohol) ink by solvent exchange with deep eutectic solvent** *蔡志昇 (國立成功大學)*
E-B2-3	15:56-16:04	**Regulate Intra- and Intermolecular Interactions of CO_2-based Copolymers via Chemical Structure Design** *朱志緯 (國立中山大學)*
E-B2-4	16:04-16:12	**Tailoring Nanopore Geometry in Anodic Aluminum Oxide Membranes Through Physical Stretching and Controlled Anodization** *劉育君 (國立陽明交通大學)*
E-B2-5	16:12-16:20	**Mechanically Robust, Self-healable and Recyclable Polyurethane Elastomer via Incorporating Chain Extenders for Skin-inspired Sensing** *裘家安 (國立清華大學)*
E-B2-6	16:20-16:28	**Layer-by-Layer Fabrication of PEI/WS2/PSSA-co-MA Trilayer Composite Membrane for Pervaporation Dehydration of Isopropanol** *John Benedict F. Fangonil (中原大學)*
-	16:28-16:35	**Break**
E-B2-7	16:35-16:43	**Fabrication of Polyetheramide-Based Thin-Film Nanocomposite Membrane Incorporated with Zwitterionic Nanoparticles for Dye Desalination** *Faith B. Illescas (中原大學)*
E-B2-8	16:43-16:51	**Fabrication of Poly(dopamine-acrylate) Graphene Oxide Membrane for Pervaporation Separation of Isopropanol-Water Mixture** *Kristian Marcel E. Magpantay (中原大學)*
E-B2-9	16:51-16:59	**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-B2-10	16:59-17:07	**Direct ink writing of Nitrile Butadiene Rubber Assisted by Cellulose Nanocrystals and a Solvent Exchange Process** *江政穎 (國立成功大學)*
E-B2-11	17:07-17:15	**Peculiar Network Phases from Controlled Self-Assembly of Star-block Polystyrene-block-Polydimethylsiloxane** *蔡宇傑 (國立清華大學)*
E-B2-12	17:15-17:23	**Unique Network Phases and Corresponding Phase Transitions from Self-Assembly of Chiral Triblock Terpolymers** *林品樺 (國立清華大學)*

英文口頭論文報告競賽 (E-B3)

1 月 16 日 9:00-10:25/T2-406.1 (4F)

評審: 游聲盛 (國立成功大學) / 邱智瑋 (國立台灣科技大學)

發表順序	時間	題目與發表作者
E-B3-1	9:00-9:08	**The mechanism underlying the effects of metal cluster variation and aminosilane functionalization of MOF-74 on the OSN performance of AS-MOF-74(M)/P84 mixed-matrix composite membranes** *Biadglign Ayalneh Habte (國立臺灣科技大學)*
E-B3-2	9:08-9:16	**Fabrication and Characterization of Hybrid Arranged Liquid Crystal Actuators** *黃蕙靜 (國立成功大學)*
E-B3-3	9:16-9:24	**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-B3-4	9:24-9:32	**Synthesis of PDMSMA-co-MMA Random Copolymers via ATRP and Reaction-Induced Microphase Separation in Epoxy Thermosetting Resins to Form Various Self-Assembled Microstructures** *陳思齊 (國立中興大學)*
E-B3-5	9:32-9:40	**Designing Luminescent Alginate Hydrogels via Lanthanide Complex Pre-Coordination for Enhanced Properties** *蘇昱嘉 (國立臺灣大學)*
-	9:40-9:45	**Break**
E-B3-6	9:45-9:53	**Development of 3D Printed Biodegradable Composites for Coral Regeneration** *邱彥榕 (國立清華大學)*
E-B3-7	9:53-10:01	**Improving light sensing performance through ferrocene/quantum dot supramolecular design** *陳羿妏 (國立臺灣科技大學)*
E-B3-8	10:01-10:09	**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-B3-9	10:09-10:17	**Improving hydrogen production through metal deposition of conductive tubular membranes** *林暐翔 (中原大學)*
E-B3-10	10:17-10:25	**Pyrene-Containing Covalent Organic Polymers Combined with Nano-Carbon Composites for Enhanced Supercapacitive Energy Storage** *黃唯鈞 (國立中山大學)*

英文口頭論文報告競賽 (E-B4)

1 月 16 日 10:45-12:10/T2-406.1 (4F)

評審: 鄭智嘉 (國立台灣科技大學) / 楊博智 (元智大學)

發表順序	時間	題目與發表作者
E-B4-1	10:45-10:53	**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)*
E-B4-2	10:53-11:01	**Enhance the Li+ selectivity of PA/PES membranes by introducing crown ether during interfacial polymerization and surface modification with EDTA** *林承翰 (中原大學)*
E-B4-3	11:01-11:09	**Bipolarity Adjustment in Perovskite Quantum Dots via Metal Doping for High-Performance Photosynaptic Transistors** *陳威丞 (國立臺灣大學)*
E-B4-4	11:09-11:17	**Effects of Carbohydrate Block Copolymer Architectures on the properties of Nonvolatile Phototransistor Memory** *游秉叡 (國立臺灣大學)*
E-B4-5	11:17-11:25	**Exploration of Novel Biodegradable Polymer/Metal-organic Framework Compound (MOF) Composites: Crystallization Behaviors and Physical Properties in the Presence of MOF** *周書伃 (逢甲大學)*
-	11:25-11:30	**Break**
E-B4-6	11:30-11:38	**Synthesis of PDMS and 2-Vinylpyridine to Random Copolymers by RAFT Polymerization and Their Self-assembly Investigations** *劉伊純 (國立中興大學)*
E-B4-7	11:38-11:46	**Fabrication and Characterization of Thermo/Photo-Sensitive Azo-Derived Liquid Crystal Elastomeric Actuators** *林彥廷 (國立成功大學)*
E-B4-8	11:46-11:54	**Hydrogen Bonding Dynamics and Mechanical Optimization in Energetic Thermoplastic Elastomers** *蔡明諺 (國立中山大學)*
E-B4-9	11:54-12:02	**Multifunctional Porous Organic Polymer Separator in Gel-state Electrolytes for Lithium-Sulfur Batteries** *陳品翰 (中山大學)*
E-B4-10	11:02-12:10	**"Grafting to" Rubber Composite for Elastic Dielectric** *Dinda Bazliah (國立臺灣科技大學)*

英文口頭論文報告競賽 (E-B5)

1 月 16 日 13:00-14:17/T2-406.1 (4F)

評審: 林彥丞 (國立成功大學) / 鄭力誠 (國立高雄科技大學)

發表順序	時間	題目與發表作者
E-B5-1	13:00-13:08	**Preparation of Zwitterionic-modified Ceramic Fillers for Solid-state Polymer Electrolytes** *李兆翊 (國立臺灣科技大學)*
E-B5-2	13:08-13:16	**Vapor Phase Synthesis of Coordination Polymers and Parylene-Based Composite Coatings for Bioengineering** *胡書嫚 (國立臺灣大學)*
E-B5-3	13:16-13:24	**Effects of polar solvents and graphene addition on the crystalline phase formation in polyvinylidene fluoride (PVDF) membranes via non-solvent induced phase separation** *雷文晴 (國立臺灣科技大學)*
E-B5-4	13:24-13:32	**Innovative Composite Materials based PVDF-HFP Co-Polymer for Dual-Function Energy Generation and Pollution Mitigation** *何蕾娜 (國立臺灣科技大學)*
E-B5-5	13:32-13:40	**Investigation of Seawater-responsive Dissolution and Degradation Characteristics of Poly (glycerol maleate) (PGM)-Based Composite Film** *劉語恩 (國立清華大學)*
-	13:40-13:45	**Break**
E-B5-6	13:45-13:53	**Preparation of Hollow Gyroid (HG) Templates Using Photodegradable Block Copolymer Hybrid System** *孫婉旖 (國立中山大學)*
E-B5-7	13:53-14:01	**Templating Synthesis of Continuous Nanomaterials through Bottom-up Networked Films** *許芳瑀 (國立中山大學)*
E-B5-8	14:01-14:09	**Poly(Lactic Acid)-Based Composites Modified with Poly(Glycerol Maleate)** *王品媛 (國立清華大學)*
E-B5-9	14:09-14:17	**Mechanically Robust and Light-Responsive COF/ANF Nanocomposite Membranes for Enhanced Blue Energy Harvesting** *薛凱丞 (國立臺灣科技大學)*

英文口頭論文報告競賽 (E-C1)

1 月 15 日 13:30-15:13/T2-407 (4F)

評審: 詹正雄 (國立成功大學)/葉伊純 (國立台灣大學)

發表順序	時間	題目與發表作者
E-C1-1	13:30-13:38	**Development of cell sorting biomaterials: Purification of hiPSC-derived cardiomyocytes** *張家綸 (國立中央大學)*
E-C1-2	13:38-13:46	**Purification of Colon Cancer Cells Using Membrane Filtration Method via Modified Porous Polymeric Membranes** *洪聆鈞 (國立中央大學)*
E-C1-3	13:46-13:54	**CO_2-Responsive drug delivery system created by supramolecular design and assembly for safer, more effective cancer therapy** *江宜倢 (國立臺灣科技大學)*
E-C1-4	13:54-14:02	**CO_2-Responsive Water-Soluble Conjugated Polymers as a Multifunctional Fluorescent Probe for Bioimaging Applications** *王子銘 (國立臺灣科技大學)*
E-C1-5	14:02-14:10	**Tuning the Emission and Electrochromic Properties of Aromatic Polyamides through Dicarboxylic Acid Position Modifications** *林靖玹 (國立臺灣大學)*
E-C1-6	14:10-14:18	**Non-phosgene Synthesis Approach for Glycidyl Carbamate Resins Employing Amidine-based Superbases with Recycled Polycarbonate** *陳彥全 (國立臺灣大學)*
-	14:18-14:25	**Break**
E-C1-7	14:25-14:33	**Sustainable Strategy: Multiple Lifecycles Polyurethane Prepared from Waste Polycarbonate with Extreme Ductility** *徐浩倫 (國立臺灣大學)*
E-C1-8	14:33-14:41	**Photoreactive silver-containing supramolecular polymers that form self-assembled nanogels for efficient antibacterial treatment** *林耘均 (國立臺灣科技大學)*
E-C1-9	14:41-14:49	**Eco-friendly Choice: Using Deep Eutectic Solvents to Accelerate Visible Light-Induced, Catalyst-Free Single Unit Monomer Insertion Reactions** *洪伯融 (國立成功大學)*
E-C1-10	14:49-14:57	**Modification and structure development for the synthesis of long-chain branched polypropylene** *蔡尚霖 (國立中正大學)*
E-C1-11	14:57-15:05	**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-C1-12	15:05-15:13	**Guiding Tubular Dentin Regeneration by 3D-aligned Polymer Scaffold Using Vapor Sublimation and Deposition Fabrication** *陳重儒 (國立臺灣大學)*

英文口頭論文報告競賽 (E-C2)

1 月 15 日 15:40-17:31/T2-407 (4F)

評審: 吳宗明 (國立中興大學) /蕭育生 (國立臺灣科技大學)

發表順序	時間	題目與發表作者
E-C2-1	15:40-15:48	**Enhancing Thermoelectric Performance of Polymerized Non-Fullerene-Acceptor/SWCNT Composite Thin Films by central core engineering** *周哲安 (國立臺灣大學)*
E-C2-2	15:48-15:56	**Heteroatom–doped carbons based on benzoxazine polymers for CO_2 capture** *鄭昀謙 (國立中山大學)*
E-C2-3	15:56-16:04	**Conjugated Polymers Based on Diphenylthiourea, Tetraphenylethene and Dibenzofulvene for the Detection of Cuprous Ion and Hydrogen Peroxide** *潘文黃康 (國立臺灣科技大學)*
E-C2-4	16:04-16:12	**Design and Synthesis of Benzoxazine-Functionalized Octavinylsilsesquioxane for Enhanced Carbon Dioxide Adsorption via Heat Treatment** *蕭晴文 (國立中山大學)*
E-C2-5	16:12-16:20	**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)*
E-C2-6	16:20-16:28	**高熱穩定性與機械穩定性的生質來源聚醯亞胺用於可繞性電子元件** *洪永騰 (國立臺北科技大學)*
-	16:28-16:35	**Break**
E-C2-7	16:35-16:43	**Environmentally Recyclable Ionogels for Ionic Thermoelectric Supercapacitor** *鄭羽媗 (國立臺灣大學)*
E-C2-8	16:43-16:51	**Degradable and Stretchable N-Type Conjugated Random Copolymers in OFETs** *鍾佳學 (國立成功大學)*
E-C2-9	16:51-16:59	**Achieving Full Wettability of Hydrophobic Poly(vinylidene difluoride) Membranes via Surface PEGylation Spray-Coating for Improved Anti-Biofouling Performance** *陳廷瑋 (中原大學)*
E-C2-10	16:59-17:07	**Dielectric Barrier Discharge Plasma-Assisted Fabrication of Regenerative Biocidal ePTFE Membranes** *朱怡珊 (中原大學)*
E-C2-11	17:07-17:15	**Donor-Acceptor Thiazolo[5,4‑d]thiazole-Based Conjugated Microporous Polymers for Organic Pollutant Adsorption and Photocatalytic Degradation** *宋佩霓 (國立中山大學)*
E-C2-12	17:15-17:23	**Design and Synthesis of Fully Benzoxazine-based Porous Organic Polymer for CO_2 Capture** *Mohsin Ejaz (國立中山大學)*
E-C2-13	17:23-17:31	**Poly(glycerol-sebacate-dithiodipropionate-sulfone) nanoparticles encapsulating iron showed an inhibitory effect against Klebsiella pneumoniae** *江翊生 (國立成功大學)*

英文口頭論文報告競賽 (E-C3)

1 月 16 日 9:00-10:25/T2-407 (4F)

評審: 黃智峯(國立中興大學) / 吳冠毅 (國立台北科技大學)

發表順序	時間	題目與發表作者
E-C3-1	9:00-9:08	**Catalytic hemin/peptide complex initiated reversible addition-fragmentation chain transfer polymerization** *張曜宇 (國立成功大學)*
E-C3-2	9:08-9:16	**Enhancing Separation Efficiency: Breakthroughs of Graphene Oxide Membranes in Organic-Organic solvents Azeotropic Systems** *郭信佑 (國立臺灣科技大學)*
E-C3-3	9:16-9:24	**Application of MIL-53(Fe)/PVDF Mixed-Matrix Membranes in Photocatalytic Membrane Reactors for Tetracycline Degradation** *黃茂庭 (中原大學)*
E-C3-4	9:24-9:32	**Research on the Application of Layer-by-Layer Assembly Technique in the Construction of 3D Artificial Skin and Cartilage Tissue Models** *吳奕緹 (國立成功大學)*
E-C3-5	9:32-9:40	**NIR-II Responsive CNT-Alginate Hydrogels for Synergistic Photothermal-Controlled Release in Cancer Treatment** *賴頤禎 (國立臺灣大學)*
-	9:40-9:45	**Break**
E-C3-6	9:45-9:53	**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-C3-7	9:53-10:01	**Ozone-treated Lignin modified diketoenamine Vitrimers: synthesis and properties** *吳念勳 (國立清華大學)*
E-C3-8	10:01-10:09	**Antifouling Properties of Amine-Oxide Containing Zwitterionic Polymers** *Van-Sieu Luc (國立陽明交通大學)*
E-C3-9	10:09-10:17	**Hydrophobic Association Hydrogels: Engineering Low-Hysteresis and Antibacterial Performance** *歐宜臻 (國立高雄科技大學)*
E-C3-10	10:17-10:25	**Circular Economy Approach: Renewable Polyurethane/SiO_2 Nanohybrids via Reclaimed Waste Polycarbonate for Carbon Dioxide Fixation and Separation Application** *陳易陞 (國立臺灣大學)*

英文口頭論文報告競賽 (E-C4)

1 月 16 日 10:45-12:10/T2-407 (4F)

評審:鍾宜璋 (國立高雄大學) / 石健忠 (國立雲林科技大學)

發表順序	時間	題目與發表作者
E-C4-1	10:45-10:53	**Modulation of the Conformation, Segment Compatibility, and Coplanarity Conjugated Polymers by Aldol Condensation for Efficient Ambipolar Organic Field-Effect Transistors** *吳冠霖 (國立臺灣大學)*
E-C4-2	10:53-11:01	**Novel Low-k and Biobased Photosensitive Polyimides** *劉瑜 (國立臺灣大學)*
E-C4-3	11:01-11:09	**Synthesis of Carbon Quantum Dot/Hydrogel Hybrids for Boosted Photodegradation Efficiency of Methyl Red** *林雅嫻 (南臺科技大學)*
E-C4-4	11:09-11:17	**Layer-by-Layer Self-Assembled Membrane Using Sulfonated Polyethyleneimine and Tannic Acid for Highly Selective Pervaporation Dehydration of Butanol** *李馬文 (中原大學)*
E-C4-5	11:17-11:25	**Low-energy Zwitterionization of Expanded Polytetrafluoroethylene Membranes using Dopamine: Biocompatibility and Thermostability** *李珮瑄 (中原大學)*
-	11:25-11:30	**Break**
E-C4-6	11:30-11:38	**Sterilizable Self-Cleaning Polycationic PVDF Membranes with Sustainable Bacteria-Killing and Releasing Capabilities for Water Treatment** *Kuan-Chin Lu (中原大學)*
E-C4-7	11:38-11:46	**Study on the Regulation of KW Gel to Keloid Fibroblasts and its Healing for Keloid Scars** *吳育昕 (國立成功大學)*
E-C4-8	11:46-11:54	**Zwitterionic Surface Modification of Polypropylene Nonwoven Fabric via Dielectric Barrier Discharge Plasma for Enhanced Leukodepletion Efficiency** *張巧羚 (中原大學)*
E-C4-9	11:54-12:02	**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-C4-10	11:02-12:10	**The surface modification of pure titanium micro-arc oxidation coating antibacterial ions and low-temperature plasma treatment with UV-grafting thermosensitive hydrogel for enhancing osseointegration and antibacterial properties** *謝旻哲 (淡江大學)*

英文口頭論文報告競賽 (E-C5)

1 月 16 日 13:00-14:25/T2-407 (4F)

評審: 王潔 (國立清華大學) / 曹峯溢 (國立彰化師範大學)

發表順序	時間	題目與發表作者
E-C5-1	13:00-13:08	**Study on the Synthesize Polyamides via Ugi-type Multicomponent Polymerization and Functionalizing with Disulfide Bonds for Crosslinking and Vitrimer Materials** *許均睿 (國立中興大學)*
E-C5-2	13:08-13:16	**Synthesis and Characterization of Polymer Containing Phenothiazine Derivatives by Suzuki-Miyaura Coupling** *黃柏儒 (國立臺灣科技大學)*
E-C5-3	13:16-13:24	**Synthesis and Application of Zwitterionic Cross-linked Core-shell Block Copolymers for Solid-state Electrolyte** *曾靚 (國立臺灣科技大學)*
E-C5-4	13:24-13:32	**Photoinduced Controlled Radical Polymerization Mediated by BiOCl Nanosheets** *王笠安 (國立陽明交通大學)*
E-C5-5	13:32-13:40	**Preparation of N,O-maleoyl-functional chitosan/ poly(ethylene oxide) hydrogels with a Schiff-base cross-linked structure and their controlled release application** *廖元晧 (國立中山大學)*
-	13:40-13:45	**Break**
E-C5-6	13:45-13:53	**Vapor-Phase Fabrication of Porous Parylene Coatings for A Interstitial Fluid Filtration Device** *張育銘 (國立臺灣大學)*
E-C5-7	13:53-14:01	**An in vitro study of fibrinogen conversion to fibrin using various combinations of snail mucin protein fractions** *蔡宥榆 (國立臺北科技大學)*
E-C5-8	14:01-14:09	**Light-Tailorable Hydrogels Prepared from Polypeptide Block Copolymers for Nerve Regeneration** *林軒宇 (國立臺灣大學)*
E-C5-9	14:09-14:17	**Microplasma-Induced Radical Polymerization for Green Elastic Polymer and Luminescent Nanocomposite** *Daniel Muara Sentosa (國立臺灣科技大學)*
E-C5-10	14:17-14:25	**Development of Functional Porous Materials via Vapor-Phase Polymerization for Biomolecule Encapsulation** *徐亦辰 (國立臺灣大學)*

英文口頭論文報告競賽 (E-C6)

1 月 16 日 13:00-14:25/T2-406 (4F)

評審: 李思禹 (國立中興大學) / 邱昱誠 (國立臺灣科技大學)

發表順序	時間	題目與發表作者
E-C6-1	13:00-13:08	**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-C6-2	13:08-13:16	**Synthesis of Adamantane-modified PS-b-PMMA for controlling microphase-separated structure** *馬場江麻 (北海道大學)*
E-C6-3	13:16-13:24	**Bio-Inert Chitosan Membranes Functionalized with Zwitterionic Polymers for Diabetic Wound Recovery** *馬振倫 (中原大學)*
E-C6-4	13:24-13:32	**Ionic Gradient Power Generation from Seawater and CO_2 Absorption Using Light-Responsive Covalent Organic Framework** *李雅淳 (國立臺灣科技大學)*
E-C6-5	13:32-13:40	**Enhancing Vascularization of 3D-Printed Glycerol-Based Biodegradable Scaffolds through Optimized Cell Culture Conditions** *李捷菱 (國立清華大學)*
-	13:40-13:45	**Break**
E-C6-6	13:45-13:53	**3D biomimetic hybrid scaffold of Glycidyl methacrylate modified Silk Fibroin /(poly(propylene glycol)diacrylate) for Cyclic Stretching cell culture of lung cancer line** *陳隽翊 (國立臺灣科技大學)*
E-C6-7	13:53-14:01	**Evaluation of factors on hair development and regeneration** *許文哲 (國立成功大學)*
E-C6-8	14:01-14:09	**Syntheses of Low Molecular Weight Poly(ethylene oxide) Block Polyisoprene with Precise Structural and Molecular Weight Control** *莊詠筌 (國立中正大學)*
E-C6-9	14:09-14:17	**Development of Water-Soluble Biodegradable Polymer Films Using Ionic Liquids** *范譯元 (國立清華大學)*
E-C6-10	14:17-14:25	**Crosslinking-enabled core-shell nanostructure based on conductive polymer hydrogels/carbon nanotubes for salivary glucose biosensor** *劉謦豪 (國立清華大學)*

英文口頭論文報告競賽 (E-D1)

1 月 16 日 10:45-12:10/T2-406 (4F)

評審: 孫一明 (元智大學) / 卓家榮 (義守大學)

發表順序	時間	題目與發表作者
E-D1-1	10:45-10:53	**Highly Efficient Self-Floatable $WO_{2.72}$/B-TiO_2@CF/Rayon/PU Janus Membrane for Full-Spectrum Solar Desalination, Simultaneous Water Evaporation and Photocatalysis** *Wubetu Belay Yeshaneh (國立臺灣科技大學)*
E-D1-2	10:53-11:01	**Intrinsic Self-Healing and Environmental Sensing Textiles: Developing Electrospun Fibers for Durability and Adaptability** *駱則瑜 (國立陽明交通大學)*
E-D1-3	11:01-11:09	**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-D1-4	11:09-11:17	**Electrospun Biomass Polyethylene Furanoate Nonwoven Substrates for Flexible Thermoelectric Generators** *黃以璿 (國立臺灣大學)*
E-D1-5	11:17-11:25	**Self-Healing Commercial Fibers via Dual Solvent Dip-Coating: Advancing Smart Textiles** *蔡宗宏 (國立陽明交通大學)*
-	11:25-11:30	**Break**
E-D1-6	11:30-11:38	**Fabricating 3D Printable Nanoporous Polymer by Photopolymerization and Flash-freezing** *陳語蓁 (國立成功大學)*
E-D1-7	11:38-11:46	**Digital Light Processing for Tough Poly-acrylates Damping Polymer Fluid Gel** *陳飛帆 (國立成功大學)*
E-D1-8	11:46-11:54	**Development and Application of an Environmentally Friendly Photocatalytic Polymer Upcycling System** *呂柏毅 (國立臺灣大學)*
E-D1-9	11:54-12:02	**3D Printing of Nanoporous Polymers Enabled by Flash-Freezing** *王俊叡 (國立成功大學)*
E-D1-10	11:02-12:10	**Effect of Various Membrane Fabrication Parameters on the Wettability and DCMD Performance of Poly(vinylidene difluoride) Membranes** *Yuan Chen Huang (中原大學)*