

英文口頭論文報告競賽 得獎名單

英文口頭論文報告競賽

佳作

2025 TwAChE
11.29-11.30

場次	發表者	演講題目
SC01-01	Cheng-Che Wu National Cheng Kung University	High Sulfur-loading and Lean Electrolyte Lithium–Sulfur Cell with Novel Graphene/CNT Foam Cathode
SC01-06	莊璨羽 國立成功大學	Mesopores in Zirconium-Based Metal–Organic Framework for In-Situ Polymerization of Aniline toward Enhanced Rate Capability for Supercapacitors
SC02-03	Hsin-Ya Tsai National Cheng Kung University	Iron-Modified Two-Dimensional Metal–Organic Framework as an “Initiator” for Polypyrrole Synthesis toward Electrochemical Dopamine Detection
SC02-04	凌樂研 國立臺灣大學	Connecting Theory with Reality: Predictive Modeling of Mixed Ion–Electron Transport in Battery Electrodes
SC03-04	徐慧婕 國立臺灣大學	Influence of Electron-Donating and Electron-Withdrawing Substituents on the Electrochromic Behavior of Viologen-Based Materials
SC03-09	彭怡仁 國立臺灣大學	Cobalt Molybdenum Selenide-Decorated MXene Hollow Spheres for High-Performance Supercapacitors
SC04-03	何志平 國立成功大學	Polycation surface-modified Metal-Organic Framework Loaded with Pt(IV) Prodrug and Methotrexate for Synergistic Anticancer Therapy
SC04-08	呂明璋 國立臺灣科技大學	Dynamic Surface-Enhanced Raman Scattering with Multiscale Nanostructure Engineering and Artificial Intelligence-Assisted Analysis for Helicobacter pylori Detection

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SC05-01	張育慈 國立臺灣科技大學	Development of 3D-Printed Phantoms with Self-Healing and Biomimetic Ultrasonic Properties
SC05-08	陳儒奕 國立臺北科技大學	Structural characterization of Achatina Fulica mucin proteins and their influence on the kinetics of Fibrin precipitation
SC06-05	王毓淇 國立成功大學	Halogen-Induced Electronic Modulation of Iridium-Functionalized Metal–Organic Frameworks for Water Oxidation Catalysis
SC06-07	施品妤 國立成功大學	Engineering Mg-Doped and Sulfurized Prussian Blue Analogues for Solar-Driven CO ₂ Conversion to Alcohols
SC07-02	黃昱傑 東海大學	Influence of Ar and N ₂ Plasma Power Modulation on {111}-Oriented Electroless Copper Deposition and Electrochemical Properties
SC07-04	張鈞涵 國立清華大學	Residual-Based Defect Identification in Active Infrared Thermography Using Adaptive Fixed Rank Kriging
SC08-06	Ji-Nien Sung Tunghai University	Converter Slag as a Catalyst for Fenton-Like Reactions: Synergistic Effects on Wastewater Treatment and Atmospheric CO ₂ Capture
SC08-09	高如君 國立中央大學	Hydrophobic PVDF Membranes with Interconnected Microporous Structures for DCMD via NIPS and VIPS Treatment

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SC09-03	謝士宣 國立中興大學	Saharan Silver Ant-Inspired Pyramid-Shaped Structure Arrays for Light Manipulation
SC09-05	Stefanie Muliadji National Taiwan University	Numerical Modeling Approach to Capture Lipid Nanoparticle Dynamics in Microfluidic Channels
SC10-03	何承禧 國立清華大學	CALPHAD-assessment of Ag-Cu-Sb ternary system
SC10-06	Yen-Yung Wu National Taiwan University	Concentration-Dependent Adsorption-Facilitated Alcohol/Water Separation Using Nanoporous RO Membranes
SC11-06	林秉翰 國立臺灣大學	Controlled secondary growth of CAU-1-NH ₂ membranes with improved CO ₂ separation efficiency
SC11-09	Debayan Mazumdar National Cheng Kung University	Advancing Sustainable Aviation Fuels in Taiwan through Hybrid Pathways
SC12-07	范心瑀 國立成功大學	Eco-Friendly Coatings for Radiative Cooling Applications
SC12-09	Kuan-Ling Liu National Taiwan University of Science and Technology	Molecularly Dispersed Zinc on Graphene Quantum Dots as an Efficient Electrocatalyst for the Two-Electron Oxygen Reduction to Hydrogen Peroxide

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SC13-04	李柏寬 國立臺灣大學	Photocurable PEG-Based Scaffolds for Bone Repair via Digital Light Processing
SC13-07	李庭榛 國立成功大學	Using Negatively Charged Membrane Stabilizers to Modulate Interactions between Catanionic Vesicles and Chitosan
SC14-06	Wei-Jen Huang National Taiwan University	Develop a novel fluorinated low-molecular-weight PEI with Txndc5-targeting CRISPR-Cas9 plasmids for atherosclerosis gene therapy
SC14-08	劉士宏 中原大學	Development of Green Zwitterionic Bi-continuous Membranes via a Dual-Bath Method for Mitigating Biofouling in Bacterial Removal from Water
SC15-01	黃以璿 國立臺灣大學	Eco-friendly poly(butylene furanoate)/carbon nanotube fibers for high-performance wearable thermoelectric generators
SC15-03	馬滋翎 國立臺灣大學	Metal-Coordinated Porous Organic Polymer/CNTs Hybrids for Improving Thermoelectric Properties
SC16-07	Leap Wun Yip National Cheng Kung University	Waste and Wastewater Recovery Network Optimization for Hi-tech Eco-industrial Parks
SC16-08	楊承叡 國立臺灣大學	Simulation of Selective Adsorption of Copper Ions (Cu^{2+}) from Wastewater in a Fixed-bed Column
SC17-02	張恩誠 國立清華大學	Blast Furnace Top Gas Valorization and High-Efficiency Carbon Capture Process
SC17-06	Qing-Yun Chou National Taiwan University of Science and Technology	Advancing Composite Hollow Fiber Membranes via Hydrophilizing PDMS Surface with Enhanced Coatability for CO_2 Capture

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SC18-01	陳儒弘 國立臺灣大學	Preparation of Strong UTSA-16 MOF Microspheres by Spray Drying
SC18-06	林立倫 國立臺灣科技大學	Biomass-Derived Cellulose Nanofibers with Ultrahigh Conductivity for High-Performance Blue Energy Harvesting
SC19-01	Yung-Chun Tsai National Tsing Hua University	Phase equilibria of Co-Ge-Sb ternary system
SC19-08	陳冠宇 國立臺灣科技大學	Highly stable Covalent-Metal Organic Frameworks for photoreforming of low-density polyethylene into value-added products
SC20-04	李智霖 國立臺灣大學	Development of refining program model for electric arc furnace steelmaking during melting period
SC20-08	陳怡禎 國立臺灣科技大學	Development of Innovative and Sustainable Biosorption and Recovery Methods for Rare Earth Elements Utilizing Environmental Microbial Communities and Their Genetic Resources
SC21-04	Andi Magattang Gafur Muchlis National Taipei University of Technology	Inkjet-Printable Anti-Counterfeiting Ink Enabled by Microfluidic-Synthesized NIR PbS/CdS Quantum Dots
SC21-06	劉瀚遠 國立清華大學	Thermal-Controlled Synthesis of High-Entropy Alloy Nanocrystals via Autocatalytic Reduction Mechanisms

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SC22-06	Yu-Hsiang Peng National Taiwan University / National Taiwan University of Science and Technology	Enhancing Acidic Recovery and Salinity Gradient Power Generation via Axial Alignment of Sulfonated Covalent Organic Framework
SC22-08	何藝曦 國立成功大學	One-shot Evaluation of Protein Mutability and Epistasis Score Using Structure-Based Model ESM3
SC23-02	Robby Sutanto National Taiwan University of Science and Technology	Light-Responsive MOF-on-COF Membranes Toward High-Performance Blue Energy Harvesting
SC23-03	葉寶琳 國立臺灣科技大學	High-Voltage Water-Evaporation-Induced Electric Generator Enabled by Conductive Sulfonated Cellulose Hydrogel
SC24-02	Yung-Ching Chia National Taiwan University of Science and Technology	The tri-bore Pebax/PDMS/PAN multi-layer composite hollow fiber membranes for CO ₂ capture
SC24-04	周俞全 國立臺灣大學	Integrated Optimization and Sustainability Analysis of a Membrane-Based CO ₂ Capture Process
SC25-02	劉紫冰 國立臺灣大學	Mechanistic Insights into Ethanol-Assisted CO ₂ Hydrogenation over Cu/ZnO/CeO ₂ Catalyst for Low-Temperature Methanol Synthesis
SC25-07	林翌茹 國立清華大學	Tailoring Surface Facets and Lattice Strains in Pd-Based Nanocrystals via Phosphorization for Enhanced Catalytic Functionality

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SC26-03	石秉宸 國立臺北科技大學	Mo-Modified High Entropy Prussian Blue analogues as a Highly Efficient Cathode Material for Water Splitting
SC26-05	黃虹臻 國立臺灣大學	Co-Self-Assembled Monolayers Modified Me-4PACz Homogeneity and Improved Perovskite Crystallinity for Inverted Perovskite Solar Cells
SC27-02	Minh-Nhat Ngo National Taiwan University of Science and Technology	Generating Heart Organoid from Mouse Embryonic Stem Cell using Spatial Modulated Extrinsic Photobiomodulation
SC27-07	江鈺崴 國立臺灣大學	Probing Stiffness-Dependent Lung Cancer Invasion through Dynamic Optical Coherence Tomography
SC28-01	趙繼群 國立清華大學	Direct Mineralization Technology for Post-Captured CO ₂
SC28-07	Ming-Chieh Hsiao National Taiwan University of Science and Technology	Plasma-Engineered Plasmonic-Quantum Photothermal Materials for Sustainable Water Harvesting

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SC01-03	Ching-Yu Hu National Cheng Kung University	Dual Salt Fluorinated Electrolyte for High Rate and Long Life Dual-Ion Batteries
SC02-08	尤浩維 國立臺灣大學	Diketopyrrolopyrrole-Dioxo-Benzodithiophene-Based Multi-Functional Conjugated Polymers for Perovskite Solar Cells
SC03-08	周建甫 國立成功大學	Phosphazene-derived gel polymer electrolytes with enhanced flame retardancy and electrochemical stability for lithium-ion batteries safety
SC04-07	Ruei-Ming Liang National Tsing Hua University	Enhancing Indigo Production in E.coli via RBS Tuning and Low-Acid Strain Application
SC05-02	陳品諺 國立清華大學	Developing protein-based nanoparticle (PBNP) to self-package RNA for bone regeneration
SC06-09	Chi-Yun Lin National Central University	A Comparative Study of UiO-66 and UiO-66-NH ₂ Composites with Inverse Opal TiO ₂ for Methylene Blue Degradation
SC07-08	李冠芳 國立清華大學	Electrocatalytic Facet Engineering of High-Entropy-Alloy Atomic Layers for Enhanced Hydrogen Oxidation
SC08-04	陳依敏 國立清華大學	Mitigating Temperature-Induced Mass Transfer Pinch in CO ₂ Absorbers with Semi-Aqueous Solvents

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SC09-04	Pei-Yi Liu National Tsing Hua University	High-Purity CO ₂ Capture from Blast Furnace Top Gas: Optimal Design Trade-Offs between Hybrid VPSA-Cryogenic Distillation and Amine Scrubbing
SC10-04	趙偉丞 國立臺灣大學	Ultralow-Shrinkage Ceramics Using Digital Light Processing 3D Printing of High-Solid-Loading Suspensions
SC11-01	陳泓恩 國立臺灣大學	Impact of Hydrodynamic Interactions on Conformations and Dynamics in Polymer Brush Systems
SC12-04	李澔 國立臺灣大學	Sky-Blue Perovskite Light-Emitting Diodes Enhanced by Dual-Effect Engineering of Guanidinium-Based Molecules
SC13-06	Yu-Liang Chen National Taiwan University	Enhancing Photothermal-Thrombolysis using Fibrin-Targeted GCREKA Decorated Pd@MIL-100 Nanoparticles
SC14-02	Ninh-Son Pham National Tsing Hua University	Noninvasive Vagus Nerve Stimulation Modulates the Tumor Vascular-Immune Interface for Enhanced Cancer Therapy
SC15-04	賴郁芳 國立中興大學	Thermally Driven Wrinkle Realignment for Morphology-Controlled Enhancement of Dry Adhesion Performance
SC16-09	陳倍恩 National Taiwan University	Pore Size Distribution (PSD) Determination of Metal-organic Frameworks Using Machine Learning Approaches

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SC17-07	Vy Anh Truong National Tsing Hua University	Enhancing hydroxydecanoic acid production in yeast via extended hfCas13d-mediated RNA knockdown using a circular gRNA Array
SC18-02	邱鴻 國立臺灣大學	Microfluidic Approach Continuous and Ultrafast Synthesis of RT MOF
SC19-09	Chih-Hao Chen National Taiwan University	Reactive Oxygen on MnO ₂ Polymorphs: CO Pulse Methodology
SC20-09	周宥辰 國立成功大學	Integrated artificial lighting and monosodium glutamate supplementation for enhanced carbon capture and utilization in Cyanobacterium aponinum aponinum
SC21-01	Caresse Tjuatja National Taiwan University	Green Solvent-Assisted Methanolysis of Polycarbonate Catalyzed by Sodium Metasilicate
SC22-09	黃佳燕 國立臺灣大學	A Sequence-based Machine Learning Approach to Protein-Protein Binding Affinity Prediction and Antibody Screening
SC23-09	Bharanitharan Kuruchanvalasu Jambulingam National Taiwan University	A new aeration mechanism of large bubble formation for green and sustainable development
SC24-07	Annisa Istiqomah National Taiwan University	Valorization of Industrial and Insect Waste into Biodegradable Bioplastic for Functional Performance of Cellulose Nanofiber/Chitosan/Black Soldier Fly Larvae Oil Composite Films

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SC25-06	Tammy Laysandra National Taiwan University of Science and Technology	Plasma-Engineered Universal Anchoring of Single-Atom Catalysts for Multimodal Catalysis
SC26-07	楊舜智 國立臺灣大學	Investigation of Anisotropic Ion Conduction in Solid Polymer Electrolytes
SC27-08	張凱翔 國立臺灣大學	Development of an Injectable, Antioxidant, and Bioadhesive Hydrogel for Treating Retinopathy and Promoting Optic Nerve Regeneration
SC28-08	Francesca Lucy Uy Del Rosario National Taiwan University	Environmental and Economic Sustainability of Wastewater Reclamation and Reuse in Urban Areas