

學生英文口頭論文發表競賽

化工系館 自強校區

SC01

學生英文口頭論文發表競賽 1

Nov. 29, 09:50-11:30

Room 93223 (2F)

演講時間	發表者	演講題目
SC01-01 09:50-10:00	Cheng-Che Wu National Cheng Kung University	High Sulfur-loading and Lean Electrolyte Lithium–Sulfur Cell with Novel Graphene/CNT Foam Cathode
SC01-02 10:00-10:10	王瑀康 國立臺灣大學	MIL-101(Cr)-Based Sensor for the Selective Adsorption and Electrochemical Detection of PFOS
SC01-03 10:10-10:20	Ching-Yu Hu National Cheng Kung University	Dual Salt Fluorinated Electrolyte for High Rate and Long Life Dual-Ion Batteries
SC01-04 10:20-10:30	Tzu-Ching Chan National Cheng Kung University	Enhance Electrochemical Stability of Lithium–Sulfur Cells with a Sandwich-Structured Separator/Electrolyte
SC01-05 10:30-10:40	Yung-Chieh Liao National Taiwan University	Boosting the Power Output of Gel-Based Thermogalvanic Cells: Utilizing Metal Oxide-Carbon Cloth Electrodes for Low-Grade Heat Harvesting
SC01-06 10:40-10:50	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
SC01-07 10:50-11:00	黃柏維 國立成功大學	Synergistic Design of Gel Polymer Electrolytes via PFPN Bridging for Next-Generation Li-Ion Batteries
SC01-08 11:00-11:10	Ching-Hsun Wu National Cheng Kung University	Ceramic-induced polymer electrolyte reconstruction for durable solid-state lithium batteries
SC01-09 11:10-11:20	方景儀 中原大學	PVP-Modified CuS SEI Layer for Enhanced Anode-Free Aqueous Zinc-Ion Batteries

SC02

學生英文口頭論文發表競賽 2

Nov. 29, 09:50-11:30

Room 93252 (2F)

演講時間	發表者	演講題目
SC02-01 09:50-10:00	Chun-Yen Yang National Taiwan University	Emergent Lithium Storage in Metal-Organic Frameworks Driven by Electrochemically Structural Transformation
SC02-02 10:00-10:10	廖沂敬 國立中興大學	Rapid Detection of Swine Diseases Using Nanobrush-Structured Biosensors
SC02-03 10:10-10:20	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 10:20-10:30	凌樂研 國立臺灣大學	Connecting Theory with Reality: Predictive Modeling of Mixed Ion–Electron Transport in Battery Electrodes

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學生英文口頭論文發表競賽 2

Nov. 29, 09:50-11:30
Room 93252 (2F)

演講時間	發表者	演講題目
SC02-05 10:30-10:40	張家瑜 國立臺灣科技大學	From CuPc to Dual Single-Atoms: An Electrochemical Strategy for CO ₂ RR and EGO
SC02-06 10:40-10:50	劉昶諒 國立成功大學	Sulfonated Polyimide with A Crosslinked Block Copolymer Architecture for Proton Exchange Membranes in Vanadium Redox Flow Batteries
SC02-07 10:50-11:00	張凱翔 國立清華大學	Cation Disorder-Driven d-Band Center Engineering and Dual-Mode Phonon Coupling Enable Ultrastable, High-Rate K ⁺ Storage in Ge-Sn Chalcogenides
SC02-08 11:00-11:10	尤浩維 國立臺灣大學	Diketopyrrolopyrrole-Dioxo-Benzodithiophene-Based Multi-Functional Conjugated Polymers for Perovskite Solar Cells
SC02-09 11:10-11:20	許博舜 國立臺灣大學	Alkyl-Substituted PProDOT Derivatives as High-performance Counter Electrodes for Copper-neocuproine-mediated Dye-sensitized Solar Cells

SC03

學生英文口頭論文發表競賽 3

Nov. 29, 09:50-11:30
Room 93256 (2F)

演講時間	發表者	演講題目
SC03-01 09:50-10:00	謝玉堃 國立臺灣大學	Fabrication and Performance of Mid-Temperature n-Type Bi ₂ Te ₃ -CuSe Thermoelectric Materials via Melt Spinning and Spark Plasma Sintering
SC03-02 10:00-10:10	Sarin Sajjadu Krishna National Tsing Hua University	Mechanistic Insights into Electrochemical Growth of Cu ₃ (HHTP) ₂ Thin Films: Unraveling Dual-Site Nucleation and Potential-Governed Morphology
SC03-03 10:10-10:20	林鼎鈞 國立陽明交通大學	Nickel-copper-based electrocatalysts for efficient hydrogen production via ammonia electrolysis in alkaline media
SC03-04 10:20-10:30	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
SC03-05 10:30-10:40	林合彥 國立臺灣大學	EQCM Analysis of Ionic Behavior in a Complementary PolyFe/PANI Electrochromic Device
SC03-06 10:40-10:50	林妤珊 國立臺北科技大學	Keratin-Polyacrylamide Composite Hydrogels as High-Performance Separators for Super capacitors
SC03-07 10:50-11:00	Andrean Liangga National Taiwan University	Two-Dimensional Amorphous Silicon Nanosheets Synthesized from Zintl Phase CaSi ₂ via Gas-Phase Decalcification
SC03-08 11:00-11:10	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
SC03-09 11:10-11:20	彭怡仁 國立臺灣大學	Cobalt Molybdenum Selenide-Decorated MXene Hollow Spheres for High-Performance Supercapacitors

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Nov. 29, 09:50-11:30

Room 93352 (3F)

演講時間	發表者	演講題目
SC04-01 09:50-10:00	Lin Po-Hsi National Tsing Hua University	Improving Antitumor Immunity and Neurobehavior via Microbiota-Targeted Oral Prebiotic Intervention
SC04-02 10:00-10:10	許雅婷 國立中興大學	Ferulic Acid from Alpinia Officinarum Alleviates Atopic Dermatitis by Downregulating TRPV1/HMGB1 Signaling
SC04-03 10:10-10:20	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
SC04-04 10:20-10:30	Uyen Khanh Pham National Taiwan University of Science and Technology	A Bio-Safe BC@CMCS/Iodine Hydrogel Exhibiting Water Uptake and Antibacterial Ability for Burn Wound Healing
SC04-05 10:30-10:40	鄧喬云 國立臺灣科技大學/中央 研究院	Application of Fluorescent Nanodiamond Technology in the Development of an Immunoassay for Cortisol Detection
SC04-06 10:40-10:50	Pei-Yi Huang National Tsing Hua University	Developing novel endogenous protein-based nanoparticles (PBNPs) that can self-package RNA and improve neuron cells targeting
SC04-07 10:50-11:00	Ruei-Ming Liang National Tsing Hua University	Enhancing Indigo Production in E.coli via RBS Tuning and Low-Acid Strain Application
SC04-08 11:00-11:10	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
SC04-09 11:10-11:20	蔡承哲 國立臺灣科技大學	Fabrication of Piezoelectric 3D-Printed Scaffolds and Evaluation of Their Osteoconductivity

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Nov. 29, 09:50-11:30

Room 93356 (3F)

演講時間	發表者	演講題目
SC05-01 09:50-10:00	張育慈 國立臺灣科技大學	Development of 3D-Printed Phantoms with Self-Healing and Biomimetic Ultrasonic Properties
SC05-02 10:00-10:10	陳品諺 國立清華大學	Developing protein-based nanoparticle (PBNP) to self-package RNA for bone regeneration
SC05-03 10:10-10:20	Jing-Ting Lin National Cheng Kung University	Aromatic-Modified Three-Armed Poly(L-lysine) as Antibacterial Nanopolymers Against Drug-Resistant Bacteria

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學生英文口頭論文發表競賽 5

Nov. 29, 09:50-11:30
Room 93356 (3F)

演講時間	發表者	演講題目
SC05-04 10:20-10:30	廖漢霖 中原大學	Stable and Versatile Fabrication of Bio-Resistant Porous Polymeric Films via Ring-Opening Reaction of Maleic Anhydride with Amino-Terminated Sulfobetaine Methacrylate
SC05-05 10:30-10:40	許昊均 國立臺灣科技大學	Injectable Hydrogel with High Adhesivity for Drug Delivery
SC05-06 10:40-10:50	Hsin-Jung Lee Chung Yuan Christian University	Enhanced Biocompatibility of PTFE Membranes via Dopamine-Induced Zwitterionic Modification
SC05-07 10:50-11:00	尹姿云 中原大學	Bioinert Zwitterionic Sulfobetaine Interfaces with High Thermal Stability for Sterilizable Medical Applications
SC05-08 11:00-11:10	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
SC05-09 11:10-11:20	施竣鄴 中原大學	Optimized Charge Spacing of Zwitterionic 4-Vinylpyridine Carboxybetaine for Enhanced Blood Compatibility in Amphiphilic Phases

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Nov. 29, 09:50-11:30
Room 93416 (4F)

演講時間	發表者	演講題目
SC06-01 09:50-10:00	林子翔 國立清華大學	Bimetallic η -phase carbides as high performance electrocatalysts for highly efficient anion exchange membrane water electrolysis
SC06-02 10:00-10:10	溫子弘 國立成功大學	Data-Driven Design of Hierarchical ZSM-5 via Bayesian Optimization
SC06-03 10:10-10:20	Kai-Yu Wu National Central University	Photocatalytic Properties of Polyimide Covalent Organic Frameworks (COF-PM)
SC06-04 10:20-10:30	鄭富全 國立中央大學	Reaction Pathway Exploration of HCHO Oxidation on W-doped δ -MnO ₂
SC06-05 10:30-10:40	王毓淇 國立成功大學	Halogen-Induced Electronic Modulation of Iridium-Functionalized Metal–Organic Frameworks for Water Oxidation Catalysis
SC06-06 10:40-10:50	姚奕帆 國立中興大學	Prussian Blue Analogue-Derived Fiber Composite Catalysts for Low-Temperature Decomposition of Nitrous Oxide
SC06-07 10:50-11:00	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
SC06-08 11:00-11:10	林鐸軒 國立成功大學	Highly Selective Ethanol-to-Butadiene Conversion over a MOF-Derived Catalyst with Synergistic Acid and Basic Sites
SC06-09 11:10-11:20	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

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Nov. 29, 09:50-11:30
Room 93420 (4F)

演講時間	發表者	演講題目
SC07-01 09:50-10:00	Chutithep Rochpuang Chung Yuan Christian University	Tube-based Reinforcement Control for Semiconductor Manufacturing
SC07-02 10:00-10:10	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
SC07-03 10:10-10:20	Bangkit Gotama National Taiwan University of Science and Technology	Advancing drop-in biofuels via non-adiabatic hydrocracking/ isomerization reactors
SC07-04 10:20-10:30	張鈞涵 國立清華大學	Residual-Based Defect Identification in Active Infrared Thermography Using Adaptive Fixed Rank Kriging
SC07-05 10:30-10:40	蘇逸仁 國立中央大學	DFT Investigation of Fe/Pd Co-Doping Synergy in g-C ₃ N ₄ for Enhanced CO ₂ Photocatalytic Reduction
SC07-06 10:40-10:50	Phuong-Tran Quach- Tran National Ilan University	Artificial Intelligence-Driven Prediction and Optimization of Electrospun Nanofiber Diameter
SC07-07 10:50-11:00	王笠安 國立陽明交通大學	Light-Driven Synthesis of Degradable Copolymers from α-Lipoic Acid via Photoiniferter Polymerization
SC07-08 11:00-11:10	李冠芳 國立清華大學	Electrocatalytic Facet Engineering of High-Entropy-Alloy Atomic Layers for Enhanced Hydrogen Oxidation

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學生英文口頭論文發表競賽 8

Nov. 29, 09:50-11:30
Room 93422 (4F)

演講時間	發表者	演講題目
SC08-01 09:50-10:00	Shih-Ni Pan National Central University	Preparation of nanosized liquid-like clusters of irinotecan hydrochloride trihydrate for injection concentrate to reduce carbon footprint
SC08-02 10:00-10:10	Chun-Hung Chiang National Central University	Chemical Recycling Development of Poly(ethylene terephthalate) by Glycolysis and Cooling Crystallization with Water
SC08-03 10:10-10:20	Chia-En Lee Tunghai University	Spent Coffee Ground-Derived Soluble Organic Substances for Smart Color-Changing Interior Decorative Building Materials
SC08-04 10:20-10:30	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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SC08

學生英文口頭論文發表競賽 8

Nov. 29, 09:50-11:30
Room 93422 (4F)

演講時間	發表者	演講題目
SC08-05 10:30-10:40	張銜群 國立中央大學	Investigation of CO ₂ Adsorption Properties of ZIF-90 Synthesized in a Water–Acetone Mixed Solvent System
SC08-06 10:40-10:50	Ji-Nien Sung Tunghai University	Converter Slag as a Catalyst for Fenton-Like Reactions: Synergistic Effects on Wastewater Treatment and Atmospheric CO ₂ Capture
SC08-07 10:50-11:00	Jamshid Hussain Yuan Ze University	Recycling of Calcium Fluoride (CaF ₂) from Fluoride Sludge and Its Adsorptive Efficiency Toward Reactive Blue 21 Dye for Contaminated Wastewaters
SC08-08 11:00-11:10	廖泓任 東海大學	Renewable energy recovery from waste algal biomass: advancing biogas production via anaerobic digestion
SC08-09 11:10-11:20	高如君 國立中央大學	Hydrophobic PVDF Membranes with Interconnected Microporous Structures for DCMD via NIPS and VIPS Treatment

SC09

學生英文口頭論文發表競賽 9

Nov. 29, 13:00-14:40
Room 93223 (2F)

演講時間	發表者	演講題目
SC09-01 13:00-13:10	Jhe-Wei Wu National Central University	A Mathematically Simplified Solid–Solid–Liquid Ternary Phase Diagram with Tie-Lines for Early Process Development Validated by Chiral Resolution of Racemic Ibuprofen
SC09-02 13:10-13:20	楊岳 國立臺灣大學	TeNNet-SAC: Thermodynamics-Embedded Neural Network for Segment Activity Coefficients
SC09-03 13:20-13:30	謝士宣 國立中興大學	Saharan Silver Ant-Inspired Pyramid-Shaped Structure Arrays for Light Manipulation
SC09-04 13:30-13:40	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
SC09-05 13:40-13:50	Stefanie Muliadji National Taiwan University	Numerical Modeling Approach to Capture Lipid Nanoparticle Dynamics in Microfluidic Channels
SC09-06 13:50-14:00	許兆翔 國立臺灣科技大學	SoC-dependent chemical and oxidative instabilities at cathode interfaces in all-solid-state lithium batteries
SC09-07 14:00-14:10	李冠穎 國立臺北科技大學	Morphology-Controlled Keratin Nanoparticle Films: Phonon Scattering and Thermal Transport Regulation
SC09-08 14:10-14:20	朱彥如 國立臺灣大學	The Role of Pore Connectivity in Water Adsorption Properties of Metal-Organic Frameworks
SC09-09 14:20-14:30	吳晟右 國立臺灣大學	Design of RO Membranes for Separation of Organic Molecules

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SC10

學生英文口頭論文發表競賽 10

Nov. 29, 13:00-14:40
Room 93252 (2F)

演講時間	發表者	演講題目
SC10-01 13:00-13:10	黃智煒 中原大學	Numerical Analysis of Thermal Flow and Oxygen Distribution under Different CUSP Magnetic Field Positions and Crystal Lengths in CZ Silicon Growth Process
SC10-02 13:10-13:20	莊璧謙 國立臺灣大學	Insights into Chiral Separation Using Metal-Organic Frameworks
SC10-03 13:20-13:30	何承禧 國立清華大學	CALPHAD-assessment of Ag-Cu-Sb ternary system
SC10-04 13:30-13:40	趙偉丞 國立臺灣大學	Ultralow-Shrinkage Ceramics Using Digital Light Processing 3D Printing of High-Solid-Loading Suspensions
SC10-05 13:40-13:50	黃奕竣 國立臺灣大學	Adsorption and Retention Mechanism of Polystyrene Divinylbenzene Resin in Reverse-Phase Liquid Chromatography
SC10-06 13:50-14:00	Yen-Yung Wu National Taiwan University	Concentration-Dependent Adsorption-Facilitated Alcohol/Water Separation Using Nanoporous RO Membranes
SC10-07 14:00-14:10	陳冠辰 國立成功大學	PDMS–Pebax Mixed-Matrix Membranes with In-Situ ZIF-8 for Enhanced CO ₂ /N ₂ Separation
SC10-08 14:10-14:20	李柏諺 國立臺灣大學	Reusable Silver Nanotriangle-Based SERS Chips for Cell Membrane-Associated Biomolecular Detection
SC10-09 14:20-14:30	歐妍佳 國立臺北科技大學	Investigating the effect of friction behaviors of lysozyme adsorbed on tooth surfaces on oral astringency

SC11

學生英文口頭論文發表競賽 11

Nov. 29, 13:00-14:40
Room 93256 (2F)

演講時間	發表者	演講題目
SC11-01 13:00-13:10	陳泓恩 國立臺灣大學	Impact of Hydrodynamic Interactions on Conformations and Dynamics in Polymer Brush Systems
SC11-02 13:10-13:20	莊翔麟 國立臺灣大學	Structural Refinements of Metal-Organic Frameworks by Hybrid Reverse Monte Carlo Method
SC11-03 13:20-13:30	陳芝伶 國立成功大學	Co-assembly of Polymer and Ion Pair Amphiphile Systems
SC11-04 13:30-13:40	顏哲揚 國立成功大學	Critical Parameters for the Formation of Interpenetrating Polymer Networks
SC11-05 13:40-13:50	吳尚宇 國立成功大學	Synergistic Ubiquitination of Aβ ₄₂ by LPS for Early-Stage Clearance of Aβ ₄₂ Oligomer
SC11-06 13:50-14:00	林秉翰 國立臺灣大學	Controlled secondary growth of CAU-1-NH ₂ membranes with improved CO ₂ separation efficiency

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SC11

學生英文口頭論文發表競賽 11

Nov. 29, 13:00-14:40
Room 93256 (2F)

演講時間	發表者	演講題目
SC11-07 14:00-14:10	龍家安 國立臺灣科技大學	Mechanically Strong and Ion-Conductive Composite Membrane for Highly Efficient Blue Energy Harvesting
SC11-08 14:10-14:20	周國鼎 國立臺灣科技大學	Comprehensive Characterization of Rotating Zigzag Bed for CO ₂ Capture
SC11-09 14:20-14:30	Debayan Mazumdar National Cheng Kung University	Advancing Sustainable Aviation Fuels in Taiwan through Hybrid Pathways

SC12

學生英文口頭論文發表競賽 12

Nov. 29, 13:00-14:40
Room 93322 (3F)

演講時間	發表者	演講題目
SC12-01 13:00-13:10	張亦賢 國立臺灣大學	Large-Scale Fabrication of Silica@Graphene Oxide Nanosheets to Facilitate the Sodiothermic Reduction of Silica into Amorphous Silicon
SC12-02 13:10-13:20	鍾家家 國立臺灣大學	Alloying Electroplated Lithium on Copper Foil Through Liquid Phase Reaction
SC12-03 13:20-13:30	吳軒寧 國立臺灣大學	Continuous Roll-to-Roll Electroplating of Lithium on Copper Foil for Lithium-Metal Batteries
SC12-04 13:30-13:40	李濤 國立臺灣大學	Sky-Blue Perovskite Light-Emitting Diodes Enhanced by Dual-Effect Engineering of Guanidinium-Based Molecules
SC12-05 13:40-13:50	羅昱安 東海大學	Metal-TCPP MOF Nanosheet-Based Ion-Gated FETs and Stress-Responsive Packaging Interface Films
SC12-06 13:50-14:00	湯元聖 國立臺灣科技大學	Development of Highly Performance Electrochemical-based Biosensors Using Plasma-treated Electrospun Sn/SnO ₂ Nanocomposites
SC12-07 14:00-14:10	范心瑀 國立成功大學	Eco-Friendly Coatings for Radiative Cooling Applications
SC12-08 14:10-14:20	Zhi-Yu Jiang National Taiwan University of Science and Technology	Immobilization of Transition-Metal Molecular Catalysts on Graphene Quantum Dots to Boost Hydrogen Evolution in Alkaline Water Splitting
SC12-09 14:20-14:30	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

學生英文口頭論文發表競賽 13

Nov. 29, 13:00-14:40

Room 93352 (3F)

演講時間	發表者	演講題目
SC13-01 13:00-13:10	賴盈蓁 國立臺灣科技大學	Development of 3D Biomimetic Gastric Dynamic Model
SC13-02 13:10-13:20	徐葦婷 中原大學	Zwitterionic Epoxylated Copolymer Grafting on PVDF Membranes for Superior Antifouling, Hemocompatibility, and Water Permeability
SC13-03 13:20-13:30	蕭勝中 中原大學	Stable Antifouling Properties of Zwitterionic Poly(4-vinylpyridine propylsulfobetaine) Under Clinical Sterilization Conditions
SC13-04 13:30-13:40	李柏寬 國立臺灣大學	Photocurable PEG-Based Scaffolds for Bone Repair via Digital Light Processing
SC13-05 13:40-13:50	徐瑞翌 國立中興大學	Cancer suppression by Antrodia cinnamomea extracellular vesicles
SC13-06 13:50-14:00	Yu-Liang Chen National Taiwan University	Enhancing Photothermal-Thrombolysis using Fibrin-Targeted GCREKA Decorated Pd@MIL-100 Nanoparticles
SC13-07 14:00-14:10	李庭榛 國立成功大學	Using Negatively Charged Membrane Stabilizers to Modulate Interactions between Catanionic Vesicles and Chitosan
SC13-08 14:10-14:20	Fang-Chen Lin Chung Yuan Christian University	Asymmetric Cellulose Acetate Membranes Fabricated by VIPS and Electrospinning for Efficient Blood Cell Separation
SC13-09 14:20-14:30	尤涵憶 國立臺北科技大學	Enhancing the Adhesive Performance of Keratin Nanoparticles through Marine A

SC14

學生英文口頭論文發表競賽 14

Nov. 29, 13:00-14:40

Room 93356 (3F)

演講時間	發表者	演講題目
SC14-01 13:00-13:10	Spoorti MM National Taipei University of Technology	Investigating the effect of friction behaviors of α -amylase adsorbed on tooth surfaces on oral astringency
SC14-02 13:10-13:20	Ninh-Son Pham National Tsing Hua University	Noninvasive Vagus Nerve Stimulation Modulates the Tumor Vascular-Immune Interface for Enhanced Cancer Therapy
SC14-03 13:20-13:30	Yung-Yi Liang National Taiwan University	Investigation of the Therapeutic Effects of Ferric Citrate-Loaded MIL-100 (Fe) on Organ Fibrosis
SC14-04 13:30-13:40	王奕惟 國立臺灣大學	Dual-mode plasmonic imaging system for studying transport behaviors of membrane transporters
SC14-05 13:40-13:50	Chia-Hung Hung Chung Yuan Christian University	Dopamine-Assisted Zwitterionic Glass Surfaces with Blood Compatibility, and Resistance to Fogging, Frosting, and Bacterial Adhesion

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SC14

學生英文口頭論文發表競賽 14

Nov. 29, 13:00-14:40

Room 93356 (3F)

演講時間	發表者	演講題目
SC14-06 13:50-14:00	Wei-Jen Huang National Taiwan University	Develop a novel fluorinated low-molecular-weight PEI with Txndc5-targeting CRISPR-Cas9 plasmids for atherosclerosis gene therapy
SC14-07 14:00-14:10	Zi-Xiang Yan Chung Yuan Christian University	One-Step Fabrication of Bioinert Fibrous Polypropylene Membranes through In-Situ Polymerization of Poly(sulfobetaine methacrylate)
SC14-08 14:10-14:20	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
SC14-09 14:20-14:30	Kai-Yuan Tan National Cheng Kung University	Efficient Sampling of Skin Interstitial Fluid Using Chitosan Microneedle Patches for Biomarker Detection

SC15

學生英文口頭論文發表競賽 15

Nov. 29, 13:00-14:40

Room 93406 (4F)

演講時間	發表者	演講題目
SC15-01 13:00-13:10	黃以濤 國立臺灣大學	Eco-friendly poly(butylene furanoate)/carbon nanotube fibers for high-performance wearable thermoelectric generators
SC15-02 13:10-13:20	詹宇詮 中原大學	Development of Microstructure Flexible Pressure Sensors for Measurement of Mobility
SC15-03 13:20-13:30	馬滋翎 國立臺灣大學	Metal-Coordinated Porous Organic Polymer/CNTs Hybrids for Improving Thermoelectric Properties
SC15-04 13:30-13:40	賴郁芳 國立中興大學	Thermally Driven Wrinkle Realignment for Morphology-Controlled Enhancement of Dry Adhesion Performance
SC15-05 13:40-13:50	Chia-Hsun Nieh National Taiwan University	Enhancing Charge Transport and Fast Non-Volatile Memory in 2D Tin-Based Perovskite Transistors through Porphyrin-like Additives
SC15-06 13:50-14:00	吳冠霖 國立臺灣大學	The Influence of Interlocking Effects in Conjugated Polymers Synthesized by Aldol Polycondensation on Field-Effect Transistor Properties and Morphology
SC15-07 14:00-14:10	盧大中 國立雲林科技大學	Bicontinuous mixed ionic–electronic conduction enables fast and stable organic electrochemical transistors
SC15-08 14:10-14:20	楊宗諺 國立臺灣大學	Pseudo-Halide Buried Interface Engineering for High-Mobility 2D Tin Perovskite Transistors Exhibiting Enhanced Photonic Synaptic Functionality
SC15-09 14:20-14:30	莊詠舜 National Chung Hsing University	Multifunctional Hydrogel with Antimicrobial and Healing Properties for Chronic Wound Treatment

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SC16

學生英文口頭論文發表競賽 16

Nov. 29, 13:00-14:40
Room 93416 (4F)

演講時間	發表者	演講題目
SC16-01 13:00-13:10	吳東峻 國立清華大學	Accurate Prediction of Amine pKa and Carbamate Stability for CO ₂ Capture Solvents Using Improved Solvation Coupled with Quantum-Informed Delta-Learning
SC16-02 13:10-13:20	饒菡書 國立臺灣大學	Materials-to-Process Mapping of Equilibrium TVSA for CO ₂ Capture across Flue Gas and DAC with RH-Dependent Feeds
SC16-03 13:20-13:30	陳振元 國立中央大學	Strain-Tunable Topological Properties of Non-Centrosymmetric LiBaBi
SC16-04 13:30-13:40	李居熹 國立中央大學	Atomistic Investigation of 〈110〉 Symmetric Tilt Grain Boundaries in Al _{0.5} CoCr _{0.5} FeNi High-Entropy alloys
SC16-05 13:40-13:50	蘇庭葳 國立中央大學	A Comparative Analysis of Adsorbate Models for Ethane/ Ethylene Adsorption in Metal–Organic Frameworks
SC16-06 13:50-14:00	連聖錡 國立臺灣大學	Development of a Low-Carbon Energy Supply Chain Based on Synthesis and Reforming of Dimethyl Ether
SC16-07 14:00-14:10	Leap Wun Yip National Cheng Kung University	Waste and Wastewater Recovery Network Optimization for Hi-tech Eco-industrial Parks
SC16-08 14:10-14:20	楊承勳 國立臺灣大學	Simulation of Selective Adsorption of Copper Ions (Cu ²⁺) from Wastewater in a Fixed-bed Column
SC16-09 14:20-14:30	陳倍恩 National Taiwan University	Pore Size Distribution (PSD) Determination of Metal-organic Frameworks Using Machine Learning Approaches

SC17

學生英文口頭論文發表競賽 17

Nov. 29, 13:00-14:40
Room 93420 (4F)

演講時間	發表者	演講題目
SC17-01 13:00-13:10	任廷宜 國立中央大學	PES Membrane Composites for 4-chlorophenol Removal
SC17-02 13:10-13:20	張恩誠 國立清華大學	Blast Furnace Top Gas Valorization and High-Efficiency Carbon Capture Process
SC17-03 13:20-13:30	Tzu-Ching Chen National Central University	A Strategic Approach to 5-HMF Production from Glucose: Combining Synergistic Hydrogel Catalysts with a Dual Deep Eutectic Solvent System
SC17-04 13:30-13:40	王鐸諭 國立成功大學	Development and Application of Inorganic Aqueous Coatings for Passive Daytime Radiative Cooling
SC17-05 13:40-13:50	沈玗妤 國立中央大學	Deep Eutectic Gels (DEGs) : Novel Poly(methacrylamide) Hydrogels for CO ₂ Capture

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SC17 學生英文口頭論文發表競賽 17

Nov. 29, 13:00-14:40

Room 93420 (4F)

演講時間	發表者	演講題目
SC17-06 13:50-14:00	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
SC17-07 14:00-14:10	Vy Anh Truong National Tsing Hua University	Enhancing hydroxydecanoic acid production in yeast via extended hfCas13d-mediated RNA knockdown using a circular gRNA Array
SC17-08 14:10-14:20	張喬晴 東海大學	Enhanced Biohydrogen Production by Clostridium butyricum Immobilized in Alginate-Based Beads: Effects of Activated Carbon and Nickel Nanoparticles
SC17-09 14:20-14:30	張宸睿 東海大學	Optimizing Carbon Source Strategies for Enhanced Lipid and Pigment Production in <i>Pavlova</i> sp.

SC18 學生英文口頭論文發表競賽 18

Nov. 29, 13:00-14:40

Room 93422 (4F)

演講時間	發表者	演講題目
SC18-01 13:00-13:10	陳儒弘 國立臺灣大學	Preparation of Strong UTSA-16 MOF Microspheres by Spray Drying
SC18-02 13:10-13:20	邱鴻 國立臺灣大學	Microfluidic Approach Continuous and Ultrafast Synthesis of RT MOF
SC18-03 13:20-13:30	潘柔綺 國立中興大學	Preparations of Tough Double Network Hydrogels containing PNVP-modified ZIF-8@EECR95 for Antibacterial Applications
SC18-04 13:30-13:40	周柏志 國立中興大學	Synthesis of viologens-based electrochromic material and its properties after curing with vitrimer
SC18-05 13:50-14:00	黃天祈 國立臺灣科技大學	Self-Operating and Highly Efficient Moisture Electricity Generator Enabled by Two-Dimensional MXene-Based Composite Aerogel
SC18-06 14:00-14:10	林立倫 國立臺灣科技大學	Biomass-Derived Cellulose Nanofibers with Ultrahigh Conductivity for High-Performance Blue Energy Harvesting
SC18-07 14:10-14:20	Syeda Fareesa Hassan Yuan Ze University	Rice Husk Ash-Derived ZrO ₂ -MCM-41 Nanocomposites for Sustainable Boron Adsorption Applications
SC18-08 14:20-14:30	藍律涵 國立中興大學	NAPA-Pd(II) Precatalysts in Secondary Alcohol Oxidation: Exploring Electronic and Halide Effects under Mechanochemical Conditions

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學生英文口頭論文發表競賽 19

Nov. 29, 13:00-14:40

Room 93456 (4F)

演講時間	發表者	演講題目
SC19-01 13:00-13:10	Yung-Chun Tsai National Tsing Hua University	Phase equilibria of Co-Ge-Sb ternary system
SC19-02 13:10-13:20	李冠霖 國立中山大學	Donor-acceptor hetero[6]radialene-based three-dimensional covalent organic frameworks for hydrogen production activity
SC19-03 13:20-13:30	孫偉瀚 國立中山大學	Synergistic Structural Engineering of Donor-Acceptor-Acceptor Type Conjugated Microporous Polymers as Photocatalysts for Boosting Sunlight-driven Hydrogen Evolution
SC19-04 13:30-13:40	Zhe-Jie Li National Taiwan University of Science and Technology	Mechanically Constructed Niobate Nanosheet/g-C ₃ N ₄ Heterostructures for Enhanced Charge Separation and Photocatalytic Hydrogen Production
SC19-05 13:40-13:50	吳宇倫 國立中興大學	Study on Perovskite Catalysts for Low-Temperature Photothermal Oxidation of Toluene
SC19-06 13:50-14:00	Yu-Syuan Liou National Taiwan University of Science and Technology	Engineering Oxygen Vacancies in MnOx for Enhanced Photothermal Catalytic Degradation of Formaldehyde
SC19-07 14:00-14:10	湯筠筠 國立臺灣科技大學	NH ₂ -modified defective MOF-808(Zr) for enhancing adsorption and photocatalytic degradation of Tetracycline
SC19-08 14:10-14:20	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
SC19-09 14:20-14:30	Chih-Hao Chen National Taiwan University	Reactive Oxygen on MnO ₂ Polymorphs: CO Pulse Methodology

SC20

學生英文口頭論文發表競賽 20

Nov. 30, 08:30-10:10

Room 93223 (2F)

演講時間	發表者	演講題目
SC20-01 08:30-08:40	王梓茵 國立臺灣科技大學	Microplasma-Synthesized Ag-MOF/GQD Biohybrid Sponges: Interface-Enhanced Properties for Sustainable Solar Water Treatment
SC20-02 08:40-08:50	黃偉誠 東海大學	Enhancing Hydrogen Production via Dark Fermentation Using Waste Lignocellulosic Biomass as Immobilization Carriers
SC20-03 08:50-09:00	Mao-Ting Huang Chung Yuan Christian University	Utilizing a PVDF/ δ -MnO ₂ Photocatalytic Membrane Reactor for the Complete Remediation of Water Contaminated with Tetracycline
SC20-04 09:00-09:10	李智霖 國立臺灣大學	Development of refining program model for electric arc furnace steelmaking during melting period

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SC20

學生英文口頭論文發表競賽 20

Nov. 30, 08:30-10:10
Room 93223 (2F)

演講時間	發表者	演講題目
SC20-05 09:10-09:20	鍾忻妤 逢甲大學	Recovery as α -Al(OH) ₃ Crystals from Aluminum-Containing Water via Fluidized-Bed Homogeneous Crystallization Technology
SC20-06 09:20-09:30	楊品榆 東海大學	Pelletized <i>Trametes versicolor</i> - <i>Chlorella</i> Co-cultures for Efficient Biomass Harvesting and Bioproduct Valorization
SC20-07 09:30-09:40	楊書羽 國立中興大學	Organic Semiconductor Heterojunction Nanoparticles (PM6:Y12) Coupled with CeO ₂ for Efficient Visible-Light-Driven Dye Degradation
SC20-08 09:40-09:50	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
SC20-09 09:50-10:00	周宥辰 國立成功大學	Integrated artificial lighting and monosodium glutamate supplementation for enhanced carbon capture and utilization in <i>Cyanobacterium aponinum aponinum</i>

SC21

學生英文口頭論文發表競賽 21

Nov. 30, 08:30-10:10
Room 93706 (7F)

演講時間	發表者	演講題目
SC21-01 08:30-08:40	Caresse Tjuatja National Taiwan University	Green Solvent-Assisted Methanolysis of Polycarbonate Catalyzed by Sodium Metasilicate
SC21-02 08:40-08:50	張侑嘉 國立臺灣大學	Few-Walled Carbon Nanotube Synthesis from LDPE over LDH-Derived Fe/Mg/Al Catalysts
SC21-03 08:50-09:00	陳明璋 國立成功大學	Enhancing VOC Degradation with Chitosan-Based Photocatalysts in Fluidized Bed Reactors
SC21-04 09:00-09:10	Andi Magattang Gafur Muchlis National Taipei University of Technology	Inkjet-Printable Anti-Counterfeiting Ink Enabled by Microfluidic-Synthesized NIR PbS/CdS Quantum Dots
SC21-05 09:20-09:30	Po-Rong Lin National Taiwan University of Science and Technology	Direct Hydrogen Peroxide Formation Induced by Contact Electrification at the Water-Solid Interface and Its Role in Silver Nanoparticle Synthesis
SC21-06 09:30-09:40	劉瀚遠 國立清華大學	Thermal-Controlled Synthesis of High-Entropy Alloy Nanocrystals via Autocatalytic Reduction Mechanisms
SC21-07 09:40-09:50	Chieh-Wei Shao National Cheng Kung University	Nickel-based Organic Materials for CO ₂ Capture and Electrochemical Reduction Reaction
SC21-08 09:50-10:00	陳靖宇 國立成功大學	Nitrogen Doped Carbon Materials Derived from Nickel-organic Materials as the Catalyst for Electrochemical Reduction of Carbon Dioxide

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學生英文口頭論文發表競賽 22

Nov. 30, 08:30-10:10

Room 93806 (8F)

演講時間	發表者	演講題目
SC22-01 08:30-08:40	王俊叡 國立成功大學	3D Printing Of Mesoporous Polymer Composites Enabled by Flash-Freezing
SC22-02 08:40-08:50	施暉宸 國立臺灣大學	Investigation on Doping Behavior of Thiophene Based Rod-Rod Block Copolymer through Morphology Control
SC22-03 08:50-09:00	溫祐辰 國立臺灣大學	Development of mussel-inspired carboxymethyl cellulose hydrogel doped with PEDOT:PSS for biosensing in human sweat
SC22-04 09:00-09:10	Michael Christopher Jerrell National Taiwan University	An Easily Fabricated Flexible Organic Electrochemical Transistors Device for Sensing and Electrical Stimulation in In-Vitro Wound Healing Models
SC22-05 09:10-09:20	林沁儀 國立臺北科技大學	Evaluation of Metal Ion Adsorption Using Mussel Protein / Poly(ethylene glycol) diacrylate Hydrogel on Quartz Crystal Microbalance
SC22-06 09:20-09:30	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
SC22-07 09:30-09:40	Jing-Ju Ho National Taiwan University of Science and Technology	Design Graphene Quantum Dots modified CuFe Prussian Blue Analogues for Highly Sensitivity Nitrate Sensors
SC22-08 09:40-09:50	何藝曦 國立成功大學	One-shot Evaluation of Protein Mutability and Epistasis Score Using Structure-Based Model ESM3
SC22-09 09:50-10:00	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

學生英文口頭論文發表競賽 23

Nov. 30, 10:25-12:05

Room 93223 (2F)

演講時間	發表者	演講題目
SC23-01 10:25-10:35	陳語萱 東海大學	Non-hydrolytic Sol-Gel Synthesis of Ti-Doped ZrV ₂ O ₇ for Epoxy Composite Underfills in Advanced Electronic Packaging
SC23-02 10:35-10:45	Robby Sutanto National Taiwan University of Science and Technology	Light-Responsive MOF-on-COF Membranes Toward High-Performance Blue Energy Harvesting
SC23-03 10:45-10:55	葉寶琳 國立臺灣科技大學	High-Voltage Water-Evaporation-Induced Electric Generator Enabled by Conductive Sulfonated Cellulose Hydrogel

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學生英文口頭論文發表競賽 23

Nov. 30, 10:25-12:05

Room 93223 (2F)

演講時間	發表者	演講題目
SC23-04 10:55-11:05	Joeseeph Marvin National Taiwan University of Science and Technology	Investigation of Temperature Bulge in Rotating Packed Bed Equipped With Blade and Baffle
SC23-05 11:05-11:15	林柏陞 國立臺灣科技大學	Simulation Study of CO ₂ Capture with Sodium Hydroxide Aqueous Solution in Rotating Packed Beds Under Continuous and Semi-Batch Operations
SC23-06 11:15-11:25	Fery Prasetyo National Taiwan University of Science and Technology	Hierarchically Engineered 2D MOF/Bacterial Nanocellulose Composite Membranes with Enhanced Ion Transport for Efficient Osmotic Energy Conversion
SC23-07 11:25-11:35	蕭于紘 國立臺灣科技大學	Study on the Phase Equilibrium of NaOAc-H ₂ O-ACN
SC23-08 11:35-11:45	薛凱丞 國立臺灣科技大學	Self-Assembled COF Membranes with Mechanical Robustness for High-Efficiency Blue Energy Harvesting
SC23-09 11:45-11:55	Bharanitharan Kuruchanvalasu Jambulingam National Taiwan University	A new aeration mechanism of large bubble formation for green and sustainable development

SC24

學生英文口頭論文發表競賽 24

Nov. 30, 10:25-12:05

Room 93706 (7F)

演講時間	發表者	演講題目
SC24-01 10:25-10:35	李宸熙 東海大學	Integrated Flocculation-Air Flotation Using Natural Polymers for Efficient Harvesting of Chlorella sorokiniana
SC24-02 10:35-10:45	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
SC24-03 10:45-10:55	Heng-Yi Liu National Taiwan University of Science and Technology	Green Fabrication of Garamite-Modified PVDF Membranes via SANIPS: Toward Robust, Superhydrophobic, and Anti-Fouling MD Performance
SC24-04 10:55-11:05	周俞全 國立臺灣大學	Integrated Optimization and Sustainability Analysis of a Membrane-Based CO ₂ Capture Process
SC24-05 11:05-11:15	賴珮瑜 靜宜大學	Investigation of Green and High-Performance Exciplexes for OLED Applications
SC24-06 11:15-11:25	周家卉 東海大學	Influence of Carrier Materials on Attachment Efficiency and Growth of Chlorella sorokiniana

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學生英文口頭論文發表競賽 24

Nov. 30, 10:25-12:05
Room 93706 (7F)

演講時間	發表者	演講題目
SC24-07 11:25-11:35	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
SC24-08 11:35-11:45	林暉 國立臺北科技大學	Electrospun Cellulose Acetate/Keratin Composite Nanofiber Membranes for Efficient Oil-Water Separation

SC25

學生英文口頭論文發表競賽 25

Nov. 30, 10:25-12:05
Room 93806 (8F)

演講時間	發表者	演講題目
SC25-01 10:25-10:35	李昀蓉 靜宜大學	Molecular Design of Iridium(III) Complexes Enabling Blue-Green and Near-Infrared Emission in LECs
SC25-02 10:35-10:45	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
SC25-03 10:45-10:55	黃春穆 國立臺灣科技大學	使用離子交換樹脂催化劑 SP112 進行 50wt% 乳酸與乙醇酯化反應及乳酸乙酯水解反應之動力學研究
SC25-04 10:55-11:05	Thi Kim Cuong Nguyen Yuan Ze University	Synthesis and Surface Modification of Nano Zero-Valent Iron for Efficient Cr(VI) Removal from Wastewater
SC25-05 11:05-11:15	Abhay Raju Academia Sinica	Effect of Fe-based Catalyst Supports on the Upcycling of Plastic into Few-Walled Carbon Nanotubes
SC25-06 11:15-11:25	Tammy Laysandra National Taiwan University of Science and Technology	Plasma-Engineered Universal Anchoring of Single-Atom Catalysts for Multimodal Catalysis
SC25-07 11:25-11:35	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
SC25-08 11:45-11:55	Viet-Phuong Bui National Taiwan University	Integrated Extraction of Lignin and SiO ₂ from Rice Husk using Deep Eutectic Solvent and NiZn/SiO ₂ -Catalyzed Lignin Liquefaction for Vanillin-rich Bio-oil Production

SC26

學生英文口頭論文發表競賽 26

Nov. 30, 13:10-14:50
Room 93223 (2F)

演講時間	發表者	演講題目
SC26-01 13:10-13:20	顏貫軒 國立臺灣大學	Molten Salt Assisted Sodium Reduction and Morphology Control: A Facile Route to Amorphous Silicon Anodes for Lithium-Ion Batteries
SC26-02 13:20-13:30	蘇頌淮 國立成功大學	Building an Ultra-thin and Solvent-free Polymer Electrolyte Architecture for Lithium Metal Batteries

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學生英文口頭論文發表競賽 26

Nov. 30, 13:10-14:50

Room 93223 (2F)

演講時間	發表者	演講題目
SC26-03 13:30-13:40	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
SC26-04 13:40-13:50	葉亭君 國立臺北科技大學	Built-in Elastomeric Thiol-ene-Crosslinked Solid-state Polymer Electrolytes for Lithium-ion Batteries
SC26-05 13:50-14:00	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
SC26-06 14:00-14:10	曾祈瑞 淡江大學	Enhanced Improvement of Salinity Gradient Energy Conversion by TiO ₂ / Anodized Aluminum Oxide Composite Substrate
SC26-07 14:10-14:20	楊舜智 國立臺灣大學	Investigation of Anisotropic Ion Conduction in Solid Polymer Electrolytes
SC26-08 14:20-14:30	Iqra Shaheen National Chang Gung University	Nanostructured g-C ₃ N ₄ -Decorated Heterogeneous Graphite Felt Electrodes for Enhanced Redox Kinetics in Vanadium Redox Flow Batteries
SC26-09 14:30-14:40	林建仲 國立成功大學	Development of the high-performance electrocatalytic system for the synthesis of Nylon monomer based on bismuth-modified electrode

SC27

學生英文口頭論文發表競賽 27

Nov. 30, 13:10-14:50

Room 93706 (7F)

演講時間	發表者	演講題目
SC27-01 13:10-13:20	Zhu-Xin Ng National Taiwan University	Transdermal Delivery System for Keloid Scar Treatment Using a Microneedle System Based on HA/Pluronic F127 Hydrogel Combined with MIL-100(Fe)
SC27-02 13:20-13:30	Minh-Nhat Ngo National Taiwan University of Science and Technology	Generating Heart Organoid from Mouse Embryonic Stem Cell using Spatial Modulated Extrinsic Photobiomodulation
SC27-03 13:30-13:40	蘇心怡 國立臺灣科技大學	Surface display of hydrolyzed proteins using comamonas sp. E6 to generate high-priced specialty chemicals
SC27-04 13:40-13:50	簡熏鋐 中原大學	Enhancing Leukodepletion Performance through Zwitterionic Surface Functionalization of Polypropylene Nonwoven Membranes using Dielectric Barrier Discharge Plasma
SC27-05 13:50-14:00	Hansdersen Irawan National Taiwan University of Science and Technology	Integration of Collagen Scaffold as An Extracellular Matrix and Cardiomyocytes Cells in Functional Recovery System for Development of Heart Ventricle Transplantation

學生英文口頭論文發表競賽

化工系館 自強校區

SC27 學生英文口頭論文發表競賽 27

Nov. 30, 13:10-14:50

Room 93706 (7F)

演講時間	發表者	演講題目
SC27-06 14:00-14:10	Yu-Chen Chen National Taiwan University of Science and Technology	Exploring the Antiviral Potential of SR11 Against White Spot Syndrome Virus via M13 Phage Display
SC27-07 14:10-14:20	江鈺崴 國立臺灣大學	Probing Stiffness-Dependent Lung Cancer Invasion through Dynamic Optical Coherence Tomography
SC27-08 14:20-14:30	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
SC27-09 14:30-14:40	侯芝綺 國立成功大學	Engineering chaperone system and redirect carbon flux for effective production of 5-aminolevulinic acid in E. coli

SC28 學生英文口頭論文發表競賽 28

Nov. 30, 13:10-14:50

Room 93806 (8F)

演講時間	發表者	演講題目
SC28-01 13:10-13:20	趙繼群 國立清華大學	Direct Mineralization Technology for Post-Captured CO ₂
SC28-02 13:20-13:30	張凱鈞 國立中央大學	Green Synthesis of ZIF-90 Using Cyrene for Polysulfone-Based Mixed-Matrix Membranes in CO ₂ /N ₂ Separation
SC28-03 13:30-13:40	涂碩予 國立中央大學	Amino-Functionalized MOF and MXene Hybrid Fillers in Pebax Mixed Matrix Membranes for Enhanced CO ₂ /N ₂ Separation
SC28-04 13:40-13:50	陳彥妘 逢甲大學	Efficient Removal and Recovery of Copper Ions from Copper- Containing Wastewater Using Fluidized Bed Homogeneous Crystallization (FBHC) Technology
SC28-05 13:50-14:00	韓佩家 東海大學	Spent Coffee Grounds-Derived Soluble Organic as an efficient chemical absorbent in a CDI-integrated flow-through CO ₂ capture system
SC28-06 14:00-14:10	廖柏任 東海大學	Investigation of Microalgae-Derived Dissolved Organic Matter in CO ₂ Capture
SC28-07 14:10-14:20	Ming-Chieh Hsiao National Taiwan University of Science and Technology	Plasma-Engineered Plasmonic-Quantum Photothermal Materials for Sustainable Water Harvesting
SC28-08 14:20-14:30	Francesca Lucy Uy Del Rosario National Taiwan University	Environmental and Economic Sustainability of Wastewater Reclamation and Reuse in Urban Areas
SC28-09 14:30-14:40	Adityas Agung Ramandani Yuan Ze University	Kinetic and Machine Learning-Based Modeling of Hydrogen Production from Four Microalgae Cultivated in Food Waste Culture Medium