

壁報展示與學生競賽

一般壁報展示

A. 生化與生醫工程 (P-1)

時間 : 10/24 PM 13:00-16:00

地點 : 旺宏館壁報區

壁報展示與學生競賽 D

報告編號	作者	單位	題目
A-P-001	蔡雨利	國立臺南大學	A Novel Process for Production of Ganoderma Saponins
A-P-002	劉瀚晟	國立成功大學	Surface modification of polyurethane membrane with hydrophilic monomer and N-halamine: Surface characterization and antimicrobial properties evaluation
A-P-003	高志朋	長庚大學	Highly Fluorescent Green and Near-Infrared Emissions from Boron- and Nitrogen-Codoped Graphene Quantum Dots
A-P-004	吳治宇	國立臺灣大學	Parylene-Based Porous Scaffold for Tissue Engineering and Regenerative Medicine
A-P-005	曾紳睿	國立成功大學	Studies of surface grafted collagen and transforming growth factor β 1 combined with cyclic stretching as a dual chemical and physical stimuli approach for rat adipose-derived stem cells (rADSCs) chondrogenesis differentiation
A-P-006	郭家宏	國立高雄科技大學	Continuous synthesis of DHA and EPA ethyl esters using immobilized lipase-packed-bed bioreactor
A-P-007	鄭維萱	臺北科技大學	The treatment of the free radical-induced chondrocyte injury by Piper kadsura(Choisy)Ohwi in Taiwan
A-P-008	蕭湘凌	國立中正大學	Enhanced proliferation of human mesenchymal stem cells by transducing Notch 1 intracellular domain-coupled magnetic nanoparticles
A-P-009	Yu-Shan Wu	國立雲林科技大學	Electrospray-assisted encapsulation of green tea catechin in jelly fig polysaccharide microhydrogels
A-P-010	王迺詒	食品工業發展研究所	Production of Monacolin K with monascus ruber by use of coffee by-product
A-P-011	吳亭瑤	國立臺北科技大學	The effects of light-emitting diodes on the inflammatory gene expression of osteoarthritis-like cartilage cells
A-P-012	蘇真瑩	國立臺北科技大學	Establishment of an in vitro lubrication testing system for mimicking oral soft tissue biotribology
A-P-013	林士閔	臺北科技大學	Preparation of lyophilized porcine platelet-rich plasma and its repair for in vitro osteoblast culture
A-P-014	林文琳	財團法人 塑膠工業技術發展中心	The polymer coating material for invasive medical devices to improve surface properties - The application of hydrophilic lubricious coating on Foley catheter
A-P-015	蔡東霖	財團法人 金屬工業研究發展中心	The Study of After-Surface for Ceramics Additive Manufacturing
A-P-016	張育華	輔英科技大學	Statistical Optimization of Culture Conditions for Enhanced Ectoine Production
A-P-017	李宓璇	東海大學	Development of forced-aeration solid-state culture bioreactor and its application in the production of active metabolites of <i>Antrodia cinnamomea</i>
A-P-018	黃品萱	國立臺北科技大學	Investigating the adsorption of tear proteins and lipids on orthokeratology lenses
A-P-019	顏銘宏	國立清華大學	Novel development of Multi-antibiotic Susceptibility Power- Free Testing Chip for Real-time Drug Screening.
A-P-020	Feng-Sheng Wang	國立中正大學	Oncogene inference optimization using constraint-based modelling incorporated with protein expression in normal and tumor tissues
A-P-021	方吳博	國立宜蘭大學	Possibility analysis of preparing liposomes by high hydrostatic pressure technology
A-P-022	許涵茹	國立臺灣科技大學	Application of aptamer-purp membrane complex photoelectric biosensors in antibiotic detection
A-P-023	陳福祥	國立聯合大學	Development of Oxygen Permeability Instrument for Customized Dressings
A-P-024	劉書羽	工業技術研究院	Study on conductivity of different conductive proteins and electro-fermentation system
A-P-025	劉凱綸	大同大學	Preparation of bacterial cellulose dressing containing Zicao extracts for wound healing
A-P-026	郭佩璇	中國文化大學	Utilization of low-cost complex amino acids as nitrogen sources for bacterial cellulose production
A-P-027	龍思妤	義守大學	Inhibitory Effect on Proliferation and Migration of Vascular Smooth Muscle Cells by <i>Glossogyne tenuifolia</i> Extracts
A-P-028	Szu-Hung Chen	國立臺北科技大學	Discovery of novel TLR2 agonists for the treatment of obesity
A-P-029	林典樟	國立清華大學	Solution Structures of an Intrinsic Disordered Protein Studied by X-Ray Scattering and Molecular Structure Simulation
A-P-030	張明銳	國立臺北科技大學	Structure-based development of novel drugs for treating hepatitis B
A-P-031	黃喬盈	財團法人 食品工業發展研究所	Reusing coffee by-product in the solid-state fermentation of <i>Monascus ruber</i>
A-P-032	陳人愷	國立成功大學	Hydroxyapatite formation with the interface of Chitin and Chitosan
A-P-033	黃惟甄	國立臺灣大學	Selection of MUC1 Aptamer and On-Chip Impedimetric Aptasensing
A-P-034	李坤城	國立臺灣科技大學	Extraction of <i>Chenopodium formosanum</i> and percutaneous permeation study of its extract
A-P-035	許哲寧	大同大學	Studies on the Optimal Liquid Medium for Culturing two <i>Streptomyces</i> Strains and Their Antagonistic Activities against <i>Fusarium oxysporum</i> f. sp. <i>cupense</i>
A-P-036	張家哲	明志科技大學	A medium formula study for reducing <i>Spirulina cost</i>
A-P-037	曾偉庭	國立雲林科技大學	Development of mini mealworm farming system for home biorefinery and education

B. 輸送現象與分離程序 (P-1)

時間 : 10/24 PM 13:00-16:00

地點 : 旺宏館壁報區

壁報展示與學生競賽 D

報告編號	作者	單位	題目
B-P-001	陳珠修	工業技術研究院	Hydrodynamics of dual fluidized bed
B-P-002	Yu-Cheng Ton	國立臺北科技大學	Nucleation Control and Solid State Property Modification of a Developing New Drug Using Sonocrystallization Process
B-P-003	林育賢	淡江大學	Preparation of Janus Membrane in Application of Membrane Distillation
B-P-004	柯韋名	長庚大學	Preparation of Porous Mixed-Matrix Polyethersulfone Fibrous Membranes for the Removal of Small Uremic Toxins from Simulated Serum
B-P-005	柯韋名	長庚大學	Preparation of Porous Polyethersulfone Membranes by Non-solvent Induced Phase Inversion for Selective Clearance of Protein-Bound Uremic Toxin p-Cresol
B-P-006	Chung-Pao Chiou	淡江大學	The Absorption Enhancement of CO ₂ in Gas-Liquid Membrane Contactors with Inserting the 3D Printed Turbulence Promoters
B-P-007	陳建宏	核能研究所	Scale-up of Hydrogen Production for Steam Reforming of Ethanol
B-P-008	李俊翰	逢甲大學	Synovial fluid analysis by a centrifugal viscometer for patients with joint diseases
B-P-009	陳茂維	核能研究所	Simulation analysis of desiccant wheel dehumidifier system
B-P-010	鍾盈蓁	中原大學	Preparation of Melamine Formaldehyde Aerogel and their Composite Melamine Formaldehyde Aerogel/Chitosan Membranes for Pervaporation Separation of Water/ Ethanol Mixtures
B-P-011	高敏傑	國立宜蘭大學	Effects of Interfacial Disturbance on Mass Transfer Performance for Absorber System Analyzed by the Micro Point of View
B-P-012	廖偉智	國立臺灣大學	Multiphase Eulerian Modeling of Biomass Pyrolysis in a Fluidized Bed Reactor
B-P-013	陳朝鈺	臺灣中油 煉製研究所	The Study of Two Kinds of C ₅ -rich Feed in Ethylene Plant
B-P-014	莊竣閔	龍華科技大學	Absorption and mass-transfer phenomena of CO ₂ in the different mixed-amine solutions
B-P-015	陶方廷	國立臺灣大學	Fabrication of High Temperature Filters from Waste Solar Panels via Atmospheric Plasma Spraying
B-P-016	黃安妮	長庚大學	Preparation of granular TiO ₂ secondary particles using spray drying
B-P-017	張幼珍	元智大學	Sources of Condensate of Room Air Conditioners for a Laboratory Space: Experiments and ANSYS Simulation
B-P-018	薛安	元智大學	Modeling of Particle Filtration Through Respirator Nanofiber Layer

C. 熱力及界面工程 (P-1)

時間 : 10/23 09:00-12:00

地點 : 化工館壁報區

壁報展示與學生競賽 A

報告編號	作者	單位	題目
C-P-001	王懷軒	國立臺灣科技大學 康橋國際學校	An examination of the mixed-controlled short-time approximation
C-P-002	周鉞翰	輔英科技大學	A study on extraction and separation of active ingredient from sesamin residual cake by through supercritical fluidization bed
C-P-003	黃姿晴	萬能科技大學	Emulsification Properties of Modified Betaine Surfactants
C-P-004	曾梨子	中國文化大學	Synthesis of Porous Biocompatible Scaffold Poly(2-hydroxyethyl methacrylate) with Hydroxylapatite as an Additive Using the Supercritical Carbon Dioxide Technology
C-P-005	陳延平	國立臺灣大學	Determination of the Phase Equilibrium and Kinetic Data for the Formation of Carbon Dioxide Hydrate with Additives of Acetamide and 1,3-Dioxane
C-P-006	張式鈺	國立中央大學	Solubility of Gliclazide and Captopril in Supercritical Carbon Dioxide
C-P-007	吳冠青	國立中央大學	First Principles Calculations on Lithium Diffusion near Surface and in Bulk of Fe-doped LiCoPO ₄
C-P-008	林漢權	明志科技大學	Formulation of inhalable beclomethasone dipropionate-mannitol composite particles through low-temperature supercritical assisted atomization
C-P-009	王暄文	國立中央大學	Prediction of Drug Solubility in Supercritical Carbon Dioxide from Molecular Structure
C-P-010	謝佳樺	國立中興大學	Macroporous Photonic Crystal-Based Fruit Maturity Detector by Doctor Blade Coating
C-P-011	Dalip Kumar	國立臺灣大學	Methane Hydrate Nucleation Mechanism in the presence of growing Ice front: A MD Simulation Study
C-P-012	莊淑婷	國立清華大學	Silver- Manganese Oxide Hybrid Nanoparticle Clusters for Supercapacitor Applications
C-P-013	江孟庭	國立清華大學	Quantifying hyaluronic acid and its crosslinking using gas-phase electrophoresis
C-P-014	Po-Yi Lin	國立臺北科技大學	Particle Design of Probenecid and Allopurinol Using Supercritical Antisolvent Process
C-P-015	許仁勇	中國鋼鐵股份有限公司	Effect of chemical compositions of carbonaceous powder on thermal conductivity coefficient of graphite blocks

D. 材料在化工的應用 (P-1)

時間 :10/24 13:00-16:00

地點：化工館壁報區

壁報展示與學生競賽 D

報告編號	作者	單位	題目
D-P-001	李柏翰	財團法人塑膠工業技術發展中心	Methods for Improving the Barrier Properties Applied in Research of Biodegradable Film
D-P-002	李俊民	國立臺灣科技大學	Improving the performance of perovskite light-emitting diode by of organic cations incorporation
D-P-003	蘇韶偉	國立臺北科技大學	Study on the synthesis of copper nanoparticles and its application to flexible substrates
D-P-004	陳靈睿	國立臺灣科技大學	The Strategies for Enhancing the Performance of Perovskite Quantum Dot Light-Emitting Diodes
D-P-005	孫嘉良	長庚大學	Tailoring Compositions of Reduced Graphene Oxide for the Electrochemical Detection of Flutamide
D-P-006	田承右	國立臺北科技大學	Study on the Impact Resistance and Various Properties of Polyurethane Foam Enhanced by Shear Thickening Gel
D-P-007	鐘筱竹	國立臺北科技大學	Study on Properties of Polyurethane Foam Prepared by Shear Thickening Fluid
D-P-008	蔡婉鈴	朝陽科技大學	Effects of the Usage of Wasted Diatomite and Phase Change Materials as Partial Replacement of Cement on the Mechanical Properties of Concrete
D-P-009	黃介銘	萬能科技大學	Preparation and Characterization of Nanocomposites
D-P-010	張順欽	國立清華大學	Precious-metal-free high entropy alloys as electrolytic water splitting catalysts in acidic media
D-P-011	張晴淵	國立清華大學	Metal-Organic Framework-derived Hybrid Nanocatalyst for Biodiesel Production via Transesterification
D-P-012	謝佩芳	國立清華大學	Aerosol Spray Controlled Synthesis of Nanoparticle using Differential Mobility Analysis coupled to Fourier-Transform Infrared Spectroscopy
D-P-013	劉上銘	明志科技大學	Synthesis CMK-1 Carbons Using MCM-48 Template in the Presence of a Cationic and Neutral Surfactant Mixture
D-P-014	劉芮廷	明志科技大學	The Effect of Calcination Temperature on the Adsorption Capacity of GO/SBA-15 Nanocomposite Materials
D-P-015	王筱菁	義守大學	Study of photovoltaic properties for dye sensitized solar cells based on carbon counter electrode
D-P-016	陳慧茵	國立中興大學	Leafhopper-Inspired Omnidirectional Antireflection Coatings
D-P-017	許丁文	國立宜蘭大學	Effect of UV excited fluorescent colorants on the properties of waterborne polyurethane dispersions
D-P-018	柯景中	財團法人塑膠工業技術發展中心	Preparation and Study of oriented crystallization film for processing of recycled polyolefin materials
D-P-019	張芳瑜	國立宜蘭大學	Effect of graphene on the properties of waterborne polyurethane dispersions derived from a PTMEG
D-P-020	陳茹毓	國立中興大學	Omnidirectional Antireflection Coatings Inspired by Dragonfly Wings
D-P-021	鍾芳宜	元智大學	Deposition of SiO _x film by Cyclonic Atmospheric Pressure Plasma
D-P-022	王淇樂	國立成功大學	Preparation of Nitrogen Doped Carbon Quantum Dots Using ZnO Nanoparticles in Heterogeneous Synthesis Systems
D-P-023	阮建龍	國家中山科學研究院	Fabrication and property of regenerated Si ₃ N ₄ ceramic substrates from discarded silicon wafer
D-P-024	陳昀柔	國立雲林科技大學	Preparing silver nanowires and titania-coated core-shell nanocomposites for photovoltaic application
D-P-025	林律瑩	國立雲林科技大學	Preparing bismuth-platinum deposited graphene oxides for glucose sensing application
D-P-026	王瀟諠	國立高雄科技大學	Preparatory Conditions Optimization and Characterization of Hierarchical Porous Carbon for Application of Supercapacitor
D-P-027	陳玟惠	行政院原子能委員會核能研究所	Investigation of steam reforming of alcohols over a nickel-based alkaline
D-P-028	林秀慈	國立高雄大學	Effect of inorganic additives on the foaming of poly (lactic acid)
D-P-029	賴聖旻	國立勤益科技大學	Study on the characteristics in polyurethane dispersion and thermoplastic polyurethane with different structures of polycarbonate polyol
D-P-030	張子峻	逢甲大學	The synthesis and morphological control of TiO ₂ nanocrystals
D-P-031	許鈞璋	逢甲大學	Effect of different substituents in series of Tetraphenylethylene-based AIEgen
D-P-032	陳玉浩	國防大學理工學院	Evaluation of batch production of boron carbide powder prepared by sol-gel and thermal cracking methods
D-P-033	陳玉浩	國防大學理工學院	Characteristic analysis and effect evaluation of VO ₂ powder prepared by chemical precipitation method
D-P-034	魏才景	國立勤益科技大學	Study on the Preparation and Characteristics of Optical Grade Polyurethane Elastomer for TwiChE Annual Meeting
D-P-035	陳柏逸	國立臺灣科技大學	A one-pot synthesis of 1-phenylbenzimidazoles by a blue-light irradiation of 4-methoxyazobenzenes in acidic N,N-dimethylformamide
D-P-036	林庭宇	國立高雄大學	The study on the fabrication of membrane separator for aluminum ion battery
D-P-037	陳若霖	國立清華大學	Improved visible photo-catalysis of electronspun ZnO anchored by UV-light reduced silver
D-P-038	蔡清屹	國立臺灣科技大學	2,6-Diheterocyclic naphthalenes photophysics and fluorescence enhancement effect
D-P-039	林盈穎	逢甲大學	Synthesized and analyzed the solvatochromic effects and AIE properties in a series of triphenylamine(TPA) derivatives with D-A structure

D-P-040	彭彥城	明志科技大學	Application of Crosslinked Polyimide Copolymer Nanocomposite Materials as the Gate Dielectrics on Organic Thin Film Transistors
D-P-041	彭彥城	明志科技大學	Technical Development of PPS/CNT Composites Prepared by Twin Screw Process
D-P-042	楊承翰	國立高雄大學	Porous carbon with high specific surface area
D-P-043	俞佳佑	財團法人 塑膠工業技術發展中心	Developing Extrusion Technology of Circulating Long Fiber Composite on Material Modular Wall
D-P-044	林嘉鼎	國家中山 科學研究院	Study on batch scale synthesis of hydroxyl-terminated polyether
D-P-045	沈明慧	逢甲大學	Morphology characterization of ternary blended organic thin films with indacenodithiophene-based electron acceptors
D-P-046	李忠洲	工業技術研究院	Accelerated Weathering Studies on Polyurethane Containing Additives
D-P-047	枋啟豪	財團法人 塑膠工業技術發展中心	Feasibility study of conductive carbon black modified formula preparation by blending method
D-P-048	枋啟豪	財團法人 塑膠工業技術發展中心	Preparation and characterization of conductive carbon black and graphene films with different concentrations
D-P-049	廖顯倫	中原大學	Synthesis of CuO/MnO ₂ Aerogels for Organic Dye Removal in Advanced Oxidation Process
D-P-050	葉世傑	國立臺灣大學	Transferring a petroleum cracking byproduct to polyimide gas membranes
D-P-051	胡真瑜	逢甲大學	Synthesis of Flexible Electrochromic WFe ₂ O ₇ /ZnO Thin Films by Low Temperature Atmospheric Pressure Plasma Polymerization
D-P-052	萬祥宇	逢甲大學	Study on Surface Modification of Low-temperature Atmospheric Electric Paste to Improve Adhesion Properties of Non-stick Mucosal Laminates
D-P-053	王伯元	國立臺灣科技大學	Investigation of the characteristic properties of facet-dependent photocatalysis of TiO ₂ nanoparticles
D-P-054	蔡子揚	國立高雄科技大學	Preparation and Thermal Insulation of Silicate Aerogel - Hollow Glass Microspheres/Sodium Silicate Composites
D-P-055	吳宗憲	國立高雄科技大學	Preparation and Optoelectric Characteristics of PEDOT:PSS/Silver Nanowire as Flexible Transparent Conducting Hybrid Films for Capacitive Touch Screen Application
D-P-056	陳楷	國立清華大學	Self-Assembly Behavior of Sugar-Based High- χ Block Copolymers in the Complex Phase Window
D-P-057	李偉丞	國立成功大學	The superior physicochemical ambience provided by chitin/carboxylated chitosan for the formation of hydroxyapatite film
D-P-058	莊禮環	行政院原子能委員會 核能研究所	Study on solidification treatment of simulated radioactive phosphoric acid waste liquid
D-P-059	蔡沛均	國立高雄科技大學	Preparation and Characteristics of Sodium Silicate-Based Aerogel
D-P-060	黃鈺婷	國立清華大學	Stacking faults of close-packed lattices in block copolymer/selective solvent mixture
D-P-061	李鼎翰	國立高雄大學	Effect of inorganic additives on the foaming of poly (lactic acid)
D-P-062	黃琬茹	國立高雄科技大學	Toughening of Epoxy Thermosets with Poly(ethylene oxide)-b-Poly(butadiene-co-acrylonitrile)-b-Poly(ethylene oxide) Synthesized Using Room-Temperature Ester Coupling Reaction
D-P-063	林育昇	國立清華大學	Revealing the Metal-Ligand Coordination effects on the Structure modifications for Balanced Tensile Modulus and Self-Healing of Polyurethane Films
D-P-064	蕭郁樺	國立成功大學	Carboxylated chitosan induced mineralization of hydroxyapatite
D-P-065	Jing-Ting Su	國立清華大學	Applications of Core-Shell Silicon-Carbon Composites as Anode Materials for Lithium Ion Capacitors
D-P-066	鄭泳慶	逢甲大學	The electromagnetic interference shielding properties of poly(trimethylene terephthalate) composites filled with the carbonized graphene oxide-MIL-101(Fe)
D-P-067	陳麒安	國防大學理工學院	Study on Electroless Nickel-phosphorus Plating on Magnesium Lithium Alloy (LZ91) Micro-arc Oxidation layer
D-P-068	陳正皓	國立清華大學	MOF-derived Cobalt Sulfide Interlaced with Multi-walled Carbon Nanotubes as Sulfur Hosts for Lithium-Sulfur Batteries
D-P-069	林彥廷	國立成功大學	Mineralization of phosphorylated chitosan/hydroxyapatite nanocomposites
D-P-070	曹建偉	國立臺灣科技大學	Study on silicon/germanium wafer bonding using Metallic nanoparticles array as immediate layer
D-P-071	徐士逸	明新科技大學	High transparent In ₂ O ₃ /Ag/In ₂ O ₃ electrode with heat mirror through sputtering deposition
D-P-072	劉一平	臺灣中油股份有限公司	Ternary Composite Anodes Based on Spray-Dried Li ₄ Ti ₅ O ₁₂ for Lithium-Ion Batteries

E. 電化學技術 (P-1)

時間 : 10/24 13:00-16:00

地點 : 化工館壁報區

壁報展示與學生競賽 D

報告編號	作者	單位	題目
E-P-001	陳柏勸	南臺科技大學	The Effect of Applied Potential on the Response Current of Detecting Hydrogen Peroxide for the Carbon Paste Electrode Modified by Ferrocene and Nano Silver Powder
E-P-002	李柏賢	南臺科技大學	The Effect of pH on Detecting Hydrogen Peroxide for the Electrode Modified by Cobalt Hexacyanoferrate and Nano Silver Powder
E-P-003	戴啟祐	南臺科技大學	The Factorial Effects of Parameters on Detecting Hydrogen Peroxide for the CPE Modified by Chromium Hexacyanoferrate and Nano Silver Powder
E-P-004	田家豪	國立中興大學	Label-free electrochemical immunosensor for detecting CA19-9 based on Zn-Co-S@rGO composite
E-P-005	陳威廷	明志科技大學	Preparation and characterization of NCM111 cathode material

E-P-006	廖韋倫	明志科技大學	Preparation of NCM811 cathode material with core-shell structure for application in lithium ion battery
E-P-007	林晏慈	交通大學	Image Fusion of Scanning Electrochemical Microscopic Pictures of Oral Cancer Tissues
E-P-008	劉豫川	臺北醫學大學	Surface-enhanced Raman scattering-active substrates prepared using innovative plasmon-activated water (1/3)
E-P-009	劉豫川	臺北醫學大學	Innovative Applications of Plasmon-Activated Water in Green Chemistry and Neuro-Related Medicine (2/3)
E-P-010	莊程勛	國立成功大學	Redox Hopping and Electrochemical Behavior of Metal-Organic Framework Thin Films Fabricated by Various Approaches
E-P-011	何長洲	國立臺灣科技大學	Solid polymer electrolytes of acrylonitrile-based copolymers and LiFSI
E-P-012	Lieu Ming Shiue	國立勤益科技大學	Improved performance of microbial fuel cells with anode modifications and the resultant bioanodes
E-P-013	全茂傑	國立臺灣科技大學	The high-surface-area-carbon electrode and its associated hybrid capacitor
E-P-014	劉育丞	國立臺灣科技大學	Lithium solid polyurethane acrylate electrolyte and its probable battery application
E-P-015	嚴詩佳	國立臺北科技大學	Novel Design of TiO ₂ Goober Structure/Microcone Array Photoanode for Fiber-type Dye-Sensitized Solar Cell: Effect of Peanut Growth Duration and TiO ₂ Precursor Concentration
E-P-016	Yuan-Yu Peng	國立高雄科技大學	Nanostructured catalyst electrode featuring 3D hierarchical porous structure for high-performance electrolysis of urea
E-P-017	許維璿	國立交通大學	Self-charging ingestible polysaccharide battery for controllable disinfection system
E-P-018	林尉聖	國立雲林科技大學	Enhancing Zn-Ion Storage of Layered V ₂ O ₅ by Electrolyte Engineering
E-P-019	梁維原	國立雲林科技大學	Low-Temperature Synthesis Spinel ZnMn ₂ O ₄ as the Cathode Material for High-Rate Zinc-Ion Batteries
E-P-020	楊延樟	國立交通大學	Circuit design for studying electrical stimulation targeting swallowing disorders
E-P-021	林泓彰	南臺科技大學	Fabrication and characterization of superhydrophobic 6061aluminium alloys
E-P-022	鍾政賢	南臺科技大學	Influence of sintering structure on the conductivity of SDC/carbonate composite electrolyte for IT-SOFC
E-P-023	吳哲元	元智大學	Synthesis and Material Characteristics of PVDF-HFP-TiO ₂ Solid Electrolytes for Lithium-ion Battery
E-P-024	張哲斌	國立清華大學	Red Phosphorus Potassium-Ion Battery Anodes
E-P-025	何佳錡	國立聯合大學	The Study of Rapid Self-Assembly Method on Copper Micro-Electroplating
E-P-026	廖承浩	國立臺北科技大學	Efficient Pore Engineering in Carbonized ZIF-8 via Chemical and Physical Methods as Active Materials for Supercapacitors
E-P-027	陳建霖	國立中興大學	Integrating electrochemical and X-ray spectroscopic techniques into Ni-Co based materials for supercapacitors
E-P-028	黃梓庭 曾暄凱	國立高雄大學	The study on synthesizing quaternary ammonium ionic liquids
E-P-029	游宗諭	國立台灣大學	Organic/inorganic SiO ₂ networks with specific polar functional groups for polymer electrolytes
E-P-030	何金澤	逢甲大學	Crosslinking reaction of electronspun polyacrylonitrile/polybenzoxazine fibers with ultra-fine carbon nanofibril structures
E-P-031	朱宥銘	明志科技大學	The effect of adding super absorbent polymers to the catalyst layer on the performance of fuel cell membrane electrode assembly
E-P-032	潘俊仁	國立高雄科技大學	Aluminum-lithium mixed ionic liquids as electrolyte system for aluminum-ion batteries
E-P-033	羅志弘	國立成功大學	Poly(2-Hydroxyethyl Methacrylate) with Immobilized Pair Ions as Hydrogel Electrolytes for High-Performance Supercapacitors
E-P-034	何治圻	國立成功大學	Chitosan with various degrees of carboxylation as hydrogel electrolyte for pseudo solid-state supercapacitors
E-P-035	曾立翔	國立成功大學	Graphene Oxide-Incorporated Hydrogel Electrolytes with the Immobilized Pair Ions for Superior Performance Supercapacitors
E-P-036	呂鈞淵	明志科技大學	Electrochemical investigation of 2D material using scanning electrochemical microscopy
E-P-037	李浩宇	國立成功大學	Supercapacitor Electrode derived from Microwave-activated Paecilomyces-saturatus Mycelium
E-P-038	廖浩平	長庚大學	Magneto-electrochemical detection of immunoglobulins by magnetic nanoparticles and disposable electrodes
E-P-039	古鴻賢	行政院原子能委員會 核能研究所	kW grade of Vanadium Redox Flow Battery through electrolysis restoring method
E-P-040	林志修	國立清華大學	Spinel NiCo ₂ O ₄ synthesized by hydrothermal method as electrocatalyst for flexible zinc-air batteries
E-P-041	江建志	龍華科技大學	The characteristics between electrode structure and non-flammable electrolyte of lithium battery

F. 綠色化工技術與程序系統工程 (P-1)

時間 : 10/23 09:00-12:00

地點 : 化工館壁報區

壁報展示與學生競賽 A

報告編號	作者	單位	題目
F-P-001	李瑞元	國立臺北科技大學	An Improved Model for Designing a Hydrolysis Sugar Membrane Purification System
F-P-002	楊承翰	國立高雄大學	The adsorption behavior of poly (lactic acid) in supercritical carbon dioxide
F-P-003	施權晉	長庚大學	Application of First-Principle Model and Data-based Model on the Chemical Plant Operation
F-P-004	游佩蓉	工業技術研究院	Multi-component Feedstock Hydrolysis in ITRI's Ionic Solution

F-P-005	張詠詞	中原大學	Process monitoring using convolution neural network variation autoencoder
F-P-006	陸藝嫻	國立清華大學	Causality Analysis for Root Cause Diagnosis of Process Disturbances Using Symbolic Transfer Entropy Methods
F-P-007	林秀慈	國立高雄大學	The adsorption behavior of poly (lactic acid) in supercritical carbon dioxide
F-P-008	游俊翔	淡江大學	Optimization study of an industrial high-purity extractive distillation column
F-P-009	呂居樺	臺灣中油 綠能科技研究所	High-Value Petrochemical of Pyrolysis Fuel Oil-Upgrading Oil and Enhancing Combustion Efficiency after Deasphalting
F-P-010	簡仲麟	國立成功大學	Heat integration study of calcium looping process for CO2 capture in cement plants
F-P-011	林彥廷	國立成功大學	Optimal allocation and economic analysis of waste biomass-based polygeneration process using interconnected fuel storage system
F-P-012	劉致維	臺灣科技大學	Basic-oxygen-furnace (BOF) slag oxygen carrier in 100 kWth multi-stage fluidized bed in chemical looping process simulation and feasibility evaluation
F-P-013	張君詠	臺灣科技大學	Application in GRU Model for Copolymer Process
F-P-014	陳建穎	義守大學	Recovery of Phosphoric Acid from Spent Aluminum Etchant by Pyrolysis
F-P-015	張家銘	國立雲林科技大學	Deep learning technology applied to the prediction of steam flow rate of power plant boilers
F-P-016	李亭毅	國立臺灣大學	Design and control of extractive distillation processes for the separation of maximum-boiling azeotropes
F-P-017	楊子杭	國立雲林科技大學	Boiler Level Control Using Deep Deterministic Policy Gradient Model
F-P-018	王翰奕	工業技術研究院	Green Synthesis of Metal-Organic Frameworks for Moisture Adsorption

G. 觸媒與反應工程 (P-1)

時間 : 10/24 09:00-12:00

地點 : 化工館壁報區

壁報展示與學生競賽 C

報告編號	作者	單位	題目
G-P-001	薛裕安	國立清華大學	Bimetallic Metal-Organic Framework-derived Hybrid Nanostructures as High-Performance Catalysts for Methane Dry Reforming
G-P-002	黃登瑞	臺灣中油股份有限公司	Reaction monitoring for the isomerization of oleic acid to methyl-branched chain products By LC-MS
G-P-003	Nguyen Hoang Thanh Truc	國立清華大學	Cu-ZnO-Al2O3 hybrid nanostructure for CO2 conversion to Methanol
G-P-004	王聖擘	明志科技大學	Mesoporous Activated Carbons with High Adsorption Capacity Obtained from Two-Stage Activation Procedure
G-P-005	劉芮廷	明志科技大學	Utilizing TiO2 Immobilized on SBA-15 Materials to Enhance Photocatalysis Activity
G-P-006	王筱菁	義守大學	Microwave assisted transesterification of cottonseed oil in sodium methoxide promoted by ion powder absorbent
G-P-007	尤貫綸	逢甲大學	The glycolysis of refrigerator and automobile pulverizing residue for compressed board production.
G-P-008	鐘慶修	國立臺灣大學	Effect of Calcination Temperature on Surface Properties of Cerium Oxide Nanorod Catalyst for Non-Reductive Conversion of Carbon Dioxide
G-P-009	Cheng-Jhe Tsai	國立臺中教育大學	Production of glycerol triacetate through esterification of glycerol using tungstophosphoric acid.
G-P-010	邱宇禎	國立臺北科技大學	Synthesis of Graphene Oxide-Zinc/Nanosheet-Based Spherical ZnO Nanocomposite for Electrochemical Detection of Promethazine Hydrochloride
G-P-011	陳偉	中原大學	Photoluminescence quenching of thermal treated waste-derived carbon dots for selective metal ions sensing
G-P-012	黃俊豪	中原大學	Polymeric g-C3N4 Derived from the Mixture of Dicyandiamide and Mushroom Waste for Photocatalytic Degradation and cytotoxic test
G-P-013	劉韋德	國立臺北科技大學	Visible Light-Enhanced Formaldehyde Gas Sensing Based on Pd-Decorated Three-Dimensional Tin Oxide
G-P-014	曾德心	國立臺北科技大學	Structurally Modified Graphitic Carbon Nitride with Enhanced Photocatalytic Activity under Visible Light
G-P-015	Shiou-Hung Lin	工業技術研究院	The study on high-efficiency catalysts for biomass syngas cleaning
G-P-016	陳懋源	大同大學	Multi-Walled Nanotubes Supported Palladium based Metal Catalysts for Direct Formic Acid Fuel Cell
G-P-017	林雨璇	逢甲大學	The Studies of Bio-Oil Production from the Lignocellulosic Feedstocks by the Liquid Phase Reforming
G-P-018	曾堯宣	國立臺灣科技大學	Study on Degradation of Aqueous Tetramethyl Ammonium Chloride via Composite Oxidation Process
G-P-019	許志維	國立中央大學	Preparation of β -Ni(OH) ₂ electrode using ultrasonic-assisted hydrolysis co-precipitation method for rechargeable Ni-based batteries
G-P-020	周孟函	國立中興大學	Study of the active sites in ethylene oligomerization catalyzed by Ni/M-MCM-41(M=B, Al, Ga)
G-P-021	孫祥耀	臺灣中油	Research on using hydrodesulfurization Catalyst to improve the quality of RFCC slurry oil
G-P-022	王鈴	臺灣中油 煉製研究所	The Survey of the Performance and Characteristics for Acetylene Selective Hydrogenation Catalyst
G-P-023	廖偉戎	明新科技大學	Enhancement of H ₂ production from NaBH ₄ via Modification of Al ₂ O ₃ with Mg
G-P-024	林煒	財團法人塑膠 工業技術發展中心	The Degradation Behavior of Thermoset Carbon Fiber Epoxy Composites in the Catalyst Solvent
G-P-025	Avinash B. Lende	國立清華大學	Hydrogenation of Polybutylene Terephthalate over Rh-Pt Catalysts Supported on Carbon Black and Recovery by Compressed CO ₂ Anti-Solvent Technique
G-P-026	Saurav Bhattacharjee	國立清華大學	Strategies for the Selective Hydrotreatment of Oleic Acid and Castor Oil to Biofuels via Pressurized CO ₂ Directed Hydrodeoxygenation

H. 能源與環境工程 (P-1)

時間 : 10/23 15:20-18:00

地點 : 化工館壁報區

壁報展示與學生競賽 B

報告編號	作者	單位	題目
H-P-001	謝欣如	工業技術研究院	Microbial community optimization of high feedstock concentration in livestock farm
H-P-002	Laurensia Irmayani	工業技術研究院	Enhanced Biogas Production from Co-digestion of Pig Manure and Agricultural Wastes
H-P-003	陳彥旭	臺灣中油煉製研究所	Pore Structure Adjustment of Carbon Materials for High-Power Supercapacitor Applications
H-P-004	陳逸航	淡江大學	Process Design of an Integrated Acetic Acid and Methanol Production System from Methane Reforming
H-P-005	余梓睿	國立臺北科技大學	A new type of the rice bran adsorbent for adsorption of cation dyes
H-P-006	蔡宜穎	工業技術研究院	Crucial components and parameter optimization of vanadium redox flow batteries
H-P-007	高志朋	長庚大學	Highly Luminescent Carbon Quantum Dot Clusters Prepared by Solvothermal Method in Presence of Polyethylene Glycol with Different Molecular Weights
H-P-008	吳承威	國立臺灣科技大學	Improving the Performance of SnO ₂ -based Planar Perovskite Solar Cells via Hot Pressing Method
H-P-009	莊易庭	國立成功大學	Performance Enhancements of Dye-sensitized Solar Cells by Electrochemical Adsorption
H-P-010	林立婕	國立臺北科技大學	Colorimetric Detection of Glyphosate Based on Modified Gold Nanoparticles
H-P-011	龔祐民	國立成功大學	Preparation of PEDOT/Pt Composite Counter Electrodes by Electrochemical Methods for Dye-Sensitized Solar Cells
H-P-012	曾宦雄	工業技術研究院	Performance Evaluation of Electrolyte Rebalancing on Vanadium Redox Flow Battery
H-P-013	張順傑	國立雲林科技大學	Combustion and Explosion Characteristics of Incense Dust Under Diverse Moisture Content
H-P-014	陳榕諭	國立雲林科技大學	Oxidation and Thermal Stability Analysis of Hexadecyl Mercaptan Added to Engine Oil
H-P-015	許梓賢	國立成功大學	Bifacial-Light-Illuminated Dye-Sensitized Solar Cells Based on Sandwich-Type Thin Film Photoelectrodes
H-P-016	歐陽心玫	雲林科技大學	Spontaneous Combustion Assessment of Oil in Porous Substrates
H-P-017	李步昇	國立雲林科技大學	Titanium Dioxide Mixed Diatomaceous Earth for Ionic Liquid Effects on Stain Resistance and Corrosion Resistance of Wind Turbine Coatings
H-P-018	謝宜晏	國立清華大學	Phosphorus-sulfur/graphene composites as flexible lithium-sulfur battery cathodes with super high volumetric capacity
H-P-019	Sheng-Feng Ho	國立清華大學	Aluminum phosphide as a high-performance lithium-ion battery anode
H-P-020	林威成	國立清華大學	Flexible Nanostructured Potassium-Ion Batteries
H-P-021	張兆鴻	國立清華大學	Colloidal synthesis of porous red phosphorus nanoparticles as a metal-free electrocatalyst for the hydrogen evolution reaction
H-P-022	陳佳欣	行政院原子能委員會核能研究所	The study of microbial fermentation for medium chain Triglyceride production
H-P-023	Anbalagan Ramakrishnan	國立清華大學	Electrochemical performance of dealloyed decagonal Al-Co-Ni quasicrystals
H-P-024	吳佩芬	工業技術研究院	Study on enhancing lipid content of oleaginous microorganisms
H-P-025	王重棋	明志科技大學	Study on the Enhancement of Performance for Perovskite Solar Cells with Organic Small Molecule Interface Modification Layer
H-P-026	王重棋	明志科技大學	Research on the Preparation of High-Efficiency Ternary Small Molecule Organic Solar Cells
H-P-027	史鎧瑜	明志科技大學	Preparation and Properties of Ternary Compound Organic Solar Cells
H-P-028	史鎧瑜	明志科技大學	Preparation of High-Efficiency Non-Fullerene Organic Solar Devices Using Non-Halogenated Solvent
H-P-029	Shiou-Hung Lin	工業技術研究院	The study on pyrolysis for waste of crystalline silicon photovoltaic modules and recycling the materials
H-P-030	賴侑諄	國立臺北科技大學	Impact of Carbon Nanotubes and Hard Carbon on the Cycling Performance of Si/C Anode for Lithium-Ion Battery
H-P-031	鄭亦婷	國立臺北科技大學	Influences of Electrolyte Additives on the Cycling Stability of Si/C Lithium-Ion Battery Anode
H-P-032	劉漢章	工業技術研究院	The anti-aging analysis of HDPE for floating PV system
H-P-033	劉漢章	工業技術研究院	The study of CTSI in Floating photovoltaic Systems
H-P-034	胡蒨傑	國立臺灣科技大學	Photocatalytic Reduction of Carbon Dioxide by Pt/TiO ₂ Composite Membranes
H-P-035	張藝齡	工業技術研究院	Study on the application of kilowatt vanadium redox flow battery system
H-P-036	柯大恩	國立中正大學	Electrospun nanofiber mat as CO ₂ adsorption membrane for zinc-air battery
H-P-037	王郁芸	國立高雄科技大學	Preparation of Zeolite from the Resources of Waste Aluminum Dross
H-P-038	溫尚燁	工業技術研究院	New shingled solar module technology
H-P-039	陳冠宇	國立清華大學	Applications of microalgae on the removal of Au ³⁺ ions from waterbody
H-P-040	王振諧	工業技術研究院	The feasibility study of Micractinium sp. by digestate of extracted-lipid microalgae
H-P-041	陳信宇	國立臺北科技大學	Suppression of Coke Formation by Adding Ammonia to Methane in Intermediate Temperature Solid Oxide Fuel Cells
H-P-042	胡譚心	核能研究所	Analysis of charge and discharge characteristics of kW-level vanadium redox flow battery

學術壁報競賽

A. 生化與生醫工程 (TP-1)

時間 : 10/23 09:00-12:00

地點 : 旺宏館壁報區

壁報展示與學生競賽 A

報告編號	作者	單位	題目
A-TP-001	林子涵	南臺科技大學	Construction of Escherichia coli Nissle 1917 cryptic plasmids for recombinant protein production
A-TP-002	王威程	南臺科技大學	Analysis of antioxidant capacity of lactic acid bacteria fermented broth using agricultural waste as nutrient source
A-TP-003	游家祥	國立清華大學	A conductive cell-delivery construct as a bioengineered patch that can improve electrical propagation and synchronize cardiomyocyte contraction for heart repair
A-TP-004	朱只耕	國立成功大學	Study of Photopolymerized 2-Hydroxyethyl methacrylate (HEMA) Based Hydrogel with Alendronate Functionality for Chronic Wound Dressing Application
A-TP-005	許哲瑜	國立中央大學	Generation and differentiation of universal pluripotent stem cells
A-TP-006	朱昱如	國立中央大學	Human Pluripotent Stem Cell Differentiation into RPE Progenitors on ECM-coated dishes
A-TP-007	蔣孝鴻	國立臺北科技大學	Pre-lubricated Polypropylene injector for breast implant delivery
A-TP-008	陳方榕	國立臺灣大學	Promotion of Neural and Osteogenic Differentiation Achieved by PEDOT:PSS/MWCNTs 3D Scaffolds with Electrical Stimulation
A-TP-009	盧韋帆	國立臺灣大學	Fabrication of keratin-based scaffolds for hemostasis and antimicrobial photodynamic therapy on wound healing
A-TP-010	馮子庭	國立臺灣大學	Alginate-catechol Hydrogel for Controlled Drug Release
A-TP-011	汪佳樺	國立中央大學	Establishment of Patient-Specific Cancer Cell Lines by Membrane Filtration Method via Nylon Mesh Filter and PLGA-Silk Screen Membranes
A-TP-012	張佺豪	國立清華大學	Development of Self-replicating mRNA Vaccine Against Porcine Reproductive and Respiratory Syndrome Virus
A-TP-013	李昀芸	中原大學	Analysis of the Enzymatic Hydrolysis Process of peanut protein by Experimental Design Method
A-TP-014	朱昱如	國立中央大學	Differentiation of Human Pluripotent Stem Cells into Retinal Pigmented Epithelium Progenitors Cultured on ECM-coated Surface
A-TP-015	許哲瑜	國立中央大學	Hypoimmunogenic human induced pluripotent stem cells prepared from amniotic fluid stem cells
A-TP-016	余紫瑄	國立成功大學	Deciphering 5-aminolevulinic acid production in Escherichia coli from the aspect of codon shuffling and Timer
A-TP-017	吳芸臻	國立宜蘭大學	Deciphering electron-shuttling characteristics of Parkinson's disease medicines via bioenergy extraction in microbial fuel cells
A-TP-018	Fitriani Jati Rahmania	國立臺灣科技大學	Preparation of Carbon Nanohorns Embedded Samarium, Gadolinium, and Iron Oxide Nanoparticles
A-TP-019	王君閣	國立中央大學	Effects of different xeno-free biomaterial for mesenchymal stem cells derived from human pluripotent stem cells
A-TP-020	Nina Hartini	國立雲林科技大學	Microencapsulation of Curcumin in Jelly Fig Polysaccharide by Vacuum Spray Drying as a Health Supplement
A-TP-021	許書愷	國立成功大學	Fabrication of paper-based microfluidic chips by spray on printing paper
A-TP-022	劉冠霆 Liu Kuan Ting	國立臺灣大學	A precise dual-targeting/modality photo-driven hyperthermia nanocarrier system through P-selectin/acidic microenvironment for effective thrombolytic therapy
A-TP-023	Hoang Nam Nguyen	國立中央大學	Full Phosphocholine Hydrogel with Biodegradability for Biomedical Applications
A-TP-024	蔡孟儒	國立雲林科技大學	The Impact of Mixed Surfactant A/Surfactant T Surfactants on Physicochemical Properties of Mixed Black Soldier Fly Larvae Oil/Candelilla Wax Nanocarriers
A-TP-025	譚世一	國立成功大學	CRISPRi-mediated programming essential gene can as a Direct Enzymatic Performance Evaluation & Determination (DEPEND) system
A-TP-026	Thi Kieu Nuong Nguyen	國立清華大學	CRISPR Activation of Long Non-coding RNA Dancr Promotes Chondrogenic Differentiation and Bone Regeneration by Upregulating Smad3 via Sponging miR-203-3p and miR-214-3p
A-TP-027	曾琮祐	元智大學	Development of a Serum-free induced way to differentiate Human Hematopoietic Stem Cells to Dendritic Cells
A-TP-028	郭柏緯	中央大學	Poly (2-methacryloyloxyethyl phosphorylcholine-b-serinyl acrylate) Block Copolymer for the Treatment of Copper Poison
A-TP-029	林湘庭	國立臺灣科技大學	Synthesis Thermo-responsive Block Copolymer by Using Reversible Addition-Fragmentation Chain Transfer Polymerization for Cell detachment
A-TP-030	陳宛辰	國立中央大學	Surface Modification of Thermoplastic Polyurethane Catheter by Photografting Zwitterionic Copolymers
A-TP-031	詹皓群	中原大學	Optimization and testing of new antibacterial protein coating and modified PEEK
A-TP-032	劉昱瑄	國立臺北科技大學	Determination of the adsorption free energy for mussel-inspired peptide at the different surface by QCM
A-TP-033	盧昶竹	中原大學	Technology for rapid detection of anammox bacteria in wastewater treatment system
A-TP-034	阮黃光耀	國立臺灣科技大學	Characteristics of Extracellular Matrix Hydrogels Derived from Decellularized Porcine Urinary Bladder Matrix
A-TP-035	邱奕翔	國立臺灣科技大學	Application of 3D printed microfluidic for sodium alginate microbeads encapsulation
A-TP-036	許鈞智	國立臺灣科技大學	Developing a Novel Culture Platform for Helicobacter Pylori under Simulated Gastric Conditions
A-TP-037	張奕詮	明志科技大學	Tris(hydroxymethyl)aminomethane affinity Membrane for adsorption of lysozyme
A-TP-038	張奕新	明志科技大學	Optimization of three-phase fluidized bed cell disruptor for the release of alcohol dehydrogenase from baker's yeast

A-TP-039	李佩容	明志科技大學	Study on immobilization and characteristics of carbonic anhydrase
A-TP-040	劉桂彰	國立高雄科技大學	Carnosine on inflammation of human colon cancer cells (HCT-116)
A-TP-041	劉上維	東海大學	Multifunctional Stretchable And Waterproof Chitosan-based Composite Hydrogel Membrane As Wound Dressing
A-TP-042	李家慧	國立高雄科技大學	Regulation mechanism of carnosine nanoparticles on apoptosis and autophagy of human colon cancer cells (HCT-116)
A-TP-043	蔡育維	明志科技大學	Antibacterial efficacy of quaternized chitosan/poly (vinyl alcohol) nanofiber membrane crosslinked with blocked diisocyanate
A-TP-044	徐偉翔	國立宜蘭大學	Feasibility study on maximal target production of onion pulp via electrochemical treatment
A-TP-045	Maria Janina Carrera Espinoza	元智大學	Synthesis and Characterization of Iron Oxide-Silica core-shell nanoparticles as a Nanocarrier for Doxorubicin Delivery for the Treatment of Hepatocellular Carcinoma
A-TP-046	莊舜皓	國立臺灣科技大學	Fabrication of Core Crosslinked Polymeric Micelles as Nanocarriers for Drug Delivery: Self-Assembly, In Situ Diselenide Metathesis and Redox-Responsive Drug Release
A-TP-047	盧廷瑜	國立臺灣大學	Systemic tumor-targeted and nitric oxide generated keratin based nanoparticle enhanced photodynamic therapy of breast cancer
A-TP-048	張以承	明志科技大學	Antibacterial efficacy of poly (hexamethylene biguanide) fixed on chitosan/dye modified nanofiber membrane: Choice of reactive dye
A-TP-049	林秀芳	中原大學	Investigation of Bio-inert ePTFE Membranes using Ultrasonic Surface Modification for Chronic Wound Recovery
A-TP-050	許雅婷	中原大學	Charge effect of copolymer-grafted PTFE dressing for wound healing
A-TP-051	Ting-Ying Wu	國立臺灣大學	Vapor-Stripping and Encapsulating to Construct Particles with Controlled Asymmetry and Anisotropy in the Nanometer Regime
A-TP-052	金奕彤	中原大學	Nanofibrous Membranes of Poly(vinylidene fluoride) and P(styrene-r-acrylic acid) for the Production of Cell-free Plasma and the Concentration of Growth Factors
A-TP-053	陳躍陞	明志科技大學	Removal of dye waste by weak cation-exchange nanofiber membrane immobilized with egg white protein wastes
A-TP-054	徐暉翔	國立臺灣大學	Glutathione-Sensitive Doxorubicin-Coupled Glycated Bovine Serum Albumin Nanoparticles as Targeted Drug Delivery Carriers: Synthesis, Characterization and in vitro Biological Properties of the Conjugates.
A-TP-055	林建佑	高雄大學	Preparation of Magnetic Peptid-imprinted Nanoparticles vector for CRISPR/dCas9 gene activation
A-TP-056	許雨晴	國立臺灣科技大學	Controlled drug delivery by using photocured composites scaffold with various porous structures
A-TP-057	高品茨	國立宜蘭大學	Feasibility study on green sustainable application of pineapple peel via electrochemical treatment
A-TP-058	周雯萱	國立臺灣大學	Injectable biomimetic hydrogel for cartilage tissue engineering
A-TP-059	葉時鉉	逢甲大學	Novel Targeted Anticancer 5-fluorouracil Delivery System based on Pluronic® blending materials
A-TP-060	施傑允	長庚大學	Extended Gate CD4007 Field Effect Transistor Biosensor for fast detection of Pseudomonas aeruginosa exotoxin A
A-TP-061	陳玟伶	國立臺灣科技大學	3D Printed Photo-curable Resins with Sustaining Antibacterial Ability
A-TP-062	蔡尚恬	國立臺灣大學	Synthesis and Application of MOF with Anti-Fouling Agent
A-TP-063	林育秀	國立宜蘭大學	Deciphering interactive synergy of electron-transfer characteristics for microbial fuel cell-steered dye decolorization
A-TP-064	江子庠	國立清華大學	Rapid Formation of Hanging drop Arrays for Culturing 3D Spheroids
A-TP-065	何敏杏	輔仁大學	Anti-inflammatory mechanisms of ethanol extract from Nostoc commune on LPS-induced RAW264.7 cell model
A-TP-066	楊顥伊	義守大學	Preparation of Lanosterol Magnetic Molecularly Imprinted Polymer Composite Nanoparticles to Extract Ginsenosides from the Panax ginseng Callus
A-TP-067	楊顥伊	義守大學	Extraction of Ginsenoside Rb1 from Ginseng Roots with Magnetic Molecularly Imprinted Polymer Composite Nanoparticles and their Effect on Hypoxia-Reoxygenation Injury of Cardiomyocytes
A-TP-068	陳彥妤	國立臺灣科技大學	The electrospinning and electrospraying of pH-sensitive polyketal and Poly(D,L-Lactic Acid) for drug delivery
A-TP-069	廖泰詰	國立中正大學	Dual functional liposomes carrying antioxidants against tau hyperphosphorylation and apoptosis of neurons

時間 :10/23 15:20-18:00

A. 生化與生醫工程 (TP-2) 地點：旺宏館壁報區

壁報展示與學生競賽 B

A-TP-070	陳羿綸	國立成功大學	Tacrolimus-loaded γ -PGA/PLGA Microneedles for Ameliorating Atopic Dermatitis Symptoms in Nc/Nga Mice
A-TP-071	林恩霆	國立成功大學	Optimizing hot water extraction of fucoidan from Sargassum cristaefolium
A-TP-072	林佳穎	國立成功大學	Optimizing fucoxanthin extraction conditions from Pavlova sp. and analyzing the biological activity of fucoxanthin
A-TP-073	Sikhumbuzo Charles Kunene	元智大學	Magnetic Graphene Quantum Dots Nanovectors for Targeted Drug Delivery System
A-TP-074	黃冠銘	國立雲林科技大學	Application of Hermetia illucens Defatted Larvae Protein Hydrolysate as a Nitrogen Source for Microbial Culture Bacteria
A-TP-075	余祐陞	國立臺灣大學	Synthesis of Hf-Containing MIL-100 and its Application in Radiation Therapy
A-TP-076	陳瑋絮	國立臺北科技大學	In vitro study on the relationships between keratins concentration from human hair and hemostatic properties after thermal treatment
A-TP-077	王瑜甄	國立臺北科技大學	Preparation of mussel adhesive protein nanoparticles by spray-drying and nanoparticles properties characterization
A-TP-078	Saitong Muneekaew	國立臺灣科技大學	Modulated Transdermal Delivery Of Nonsteroidal Anti-Inflammatory Drug By Macroporous Poly(Vinyl Alcohol)-Graphene Oxide Nanocomposite Films
A-TP-079	陳冠綸	國立臺灣大學	Brownian Dynamics Simulations of Electrophoretic DNA Separation by the Normal Stress Effect
A-TP-080	王麒翰	元智大學	Investigation of Fermentation Conditions for The Production of Echinone by <i>Gordonia terrae</i> TWRH01
A-TP-081	莊芝瑜	元智大學	Comparison of ectoine production from different carbon sources by <i>Kytococcus sedentarius</i>

A-TP-082	林廷翰	長庚大學	Solar-triggered Silver Doped Titanium Oxide Nanofibers with Efficient Photothermal Therapy for Tumor Ablation
A-TP-083	丁柏茹	大同大學	The application of silver sulfide quantum dot biological probe combined with magnetic beads for rapid detection of Pseudomonas aeruginosa exotoxin A
A-TP-084	陳彥丞	元智大學	To Prepare an Elastomer Scaffold by Using Poly (Glycerol Sebacate) to Culture Mesenchymal Stromal Cells
A-TP-085	黃賢琮	國立臺北科技大學	Effect of varied hair protein fractions on the properties of spray-dried keratin nanoparticles
A-TP-086	Trong-Nghia Le	國立臺灣科技大學	Evaluation of The pH-Sensitive Linker Using Norbornene Derived Polymers
A-TP-087	Yen Chen Shen	國立臺灣科技大學	Hyaluronic Acid Based Hypoxia-Responsive Nanoparticles for Doxorubicin Drug Delivery
A-TP-088	施淳彥	國立成功大學	Ascorbic Acid-assisted Graphene Oxide Dots for Photodynamic Cancer Therapy
A-TP-089	邱鈺洋	國立臺北科技大學	Effects of different proportions of human hair proteins on the nanoparticle properties and drug delivery at different pH values
A-TP-090	吳雅玉	國立中正大學	Synthesis, Characterization and Biomedical Applications of Graphene Oxide Quantum Dots
A-TP-091	鄧如婷	國立中正大學	Preparation of Thermoplastic Polyurethane Core-Sheath Nanofibers and Its Application in Antimicrobial Photodynamic Therapy
A-TP-092	洪佩芝	國立中央大學	The Development of Composite Dressings to Promote Wound Healing
A-TP-093	蔡宜蓁	國立成功大學	Molecular Simulation of the Bisubstrate Binding Loops within Rhamnosyl 4'-O-Methyltransferase
A-TP-094	穆宣佑	國立清華大學	Triple Selection Strategy for In Situ Labeling of Circulating Tumor Cells with High Purity and Viability toward Preclinical Personalized Drug Sensitivity Analysis
A-TP-095	楊宜勳	南臺科技大學	Anti-biofouling modification of poly sulfobetaine acrylamide on nylon textiles
A-TP-096	潘仰信	大同大學	Improving the thermal stability of Sulfurihydrogenibium yellowstonense carbonic anhydrase by encapsulation in biomimetic silica
A-TP-097	傅威東	大同大學	Preliminary results of carbon dioxide sequestration using immobilized Sulfurihydrogenibium azorensis carbonic anhydrase
A-TP-098	謝佳蓉	大同大學	A novel fusion protein of silicification peptide and carbonic anhydrase
A-TP-099	洪慧珍	中原大學	Surface zwitterionization of polypropylene substrates for reduced blood cell adhesion
A-TP-100	余祐慈	國立清華大學	Phase-Changeable Nanoemulsions for Oral Delivery of a Therapeutic Peptide Directly Targeting Pancreas via Lymphatic Transport for Glycemic Control in Diabetes
A-TP-101	翁勛明	國立成功大學	DNA-based Nanogels for payload encapsulation
A-TP-102	林祐生	元智大學	Synthesis and Characterization of Graphene Quantum Dots Targeting Neuroblastoma Cells
A-TP-103	王珮庭	國立成功大學	Graphene oxide dots-controlled Release of CO in Combination of Photodynamic Therapy for Synergistic Anticancer Therapy
A-TP-104	楊子儀	國立清華大學	Metabolic engineering of Escherichia coli for the enhancement of indirubin biosynthesis
A-TP-105	李蘭軒	國立清華大學	Continuous cell encapsulation in liquid core hydrogel droplet for drug development and cell therapy
A-TP-106	蔡冠英	國立臺灣科技大學	Cell Behaviors on Micro-Patterns Prepared by Plasma Polymerization
A-TP-107	洪季嬋	國立交通大學	Metabolic engineering of Escherichia coli using nonphosphorylative xylose metabolism for 5-aminolevulinic acid production as a photodynamic therapy
A-TP-108	黃貞齊	國立交通大學	Biosynthesis of 3-Hydroxy-3-methylbutyrate as dietary supplement by engineered Escherichia coli
A-TP-109	梁宇睿	中原大學	DFT Calculation on Hydrogen Bond Strength of Water Cluster around Pyridinocarboxylate with Different Carbon Spacer Length
A-TP-110	陳怡君	長庚大學	Gene transfer using cationic oligo-chitosan modified magnetic nanoparticle
A-TP-111	林承翰	長庚大學	Magnetofection using biocompatible chitosan modified magnetic nanoparticles
A-TP-112	楊浚良	元智大學	Levulinic acid as precursor for synthesis of polyhydroxyalkanoates (P3HB-co-3HV-co-4HV) by Raistonia eutropha B101
A-TP-113	李宜樺	國立成功大學	Mechanism and Free Energy Analysis of β -hairpin Protein Folding
A-TP-114	許博凱	國立雲林科技大學	Utilization of defatted Hermetia illucens larva meal as the nitrogen source in solid culture of Cordyceps militaris for fruit body production
A-TP-115	葉曉敏	元智大學	Fermentation of Haematococcus pluvialis in synthetic brewery wastewater for biomass and protein production
A-TP-116	詹惟評	國立臺灣科技大學	Preparation the Piezoelectric Polyvinylidene Fluoride Film as Intestinal Sleeve Implants Installed in Digestive Tract for Blood Glucose Control
A-TP-117	張恆睿	國立清華大學	Optimization of violacein and deoxyviolacein production by tuning gene expression using RBS library
A-TP-118	涂家齡	國立清華大學	Preparation of PEG/PCL photocrosslinked hydrogel scaffold applying to three-layer structure and adding PRP with the study of the properties
A-TP-119	陳怡蓁	國立清華大學	Drug Delivery System for Oral Octreotide Based on Polypeptide Hydrogel mPEG-p(Ala)-p(Lys)
A-TP-120	李佳錦	國立清華大學	Study of Elastase-loaded microspheres in Polypeptide hydrogel for Drug Delivery System
A-TP-121	曾鑑儀	大同大學	Comparison the extraction method and anti-oxidation activity of Cistanche tubulosa
A-TP-122	柳昭瑜	國立清華大學	Development of a Cyclic Breathing Lung Platform toward Pulmonary Drug Screening
A-TP-123	凌銘陽	國立臺北科技大學	A Method in Noise Regulation in Genetic Networks : Analyzing The Importance of Dimerization Reactions by Stochastic Simulation Algorithm
A-TP-124	林佑瑄	國立臺灣科技大學	Synthesis thermo-responsive microspheres by using reversible addition-fragmentation chain transfer polymerization for three-dimensional cell detachment
A-TP-125	陳怡螢	元智大學	The Evaluation of Single-Chamber Electro-Fermentation to Enhance Echinone Production
A-TP-126	李承恩	國立臺北科技大學	Developing a Method to Filter Out the Upstream Noise in Gene Regulation by The DNA Switching Frequency
A-TP-127	郭許宏	元智大學	Bubble Formation in Microfluidic Channels: An ANSYS CFD Study

B. 輸送現象與分離程序 (TP-1)

時間 : 10/24 09:00-12:00

地點 : 旺宏館壁報區

壁報展示與學生競賽 C

報告編號	作者	單位	題目
B-TP-001	汪佳樺	國立中央大學	Isolation of Primary Human Colon Tumor Cells from Surgical Tissues by Membrane Filtration Method
B-TP-002	林冠霖	國立臺灣大學	Effect of Receptor Flexural Rigidity on the Binding of a Nanoparticle to Cell
B-TP-003	范詠琪	國立臺灣大學	Single-Polymer Structure and Dynamics Investigated Using Brownian Dynamics Simulations
B-TP-004	安哲頌	國立臺灣大學	Structure of Hard-Sphere Suspensions in a Cylinder: Density-Functional Approach and Monte-Carlo Simulations
B-TP-005	曹昱浩	國立中央大學	Sliding motion of nanodroplets on smooth surfaces characterized by slip length
B-TP-006	陳怡方	國立中央大學	Simulation Verification of Biogas Upgrading by Pressure Swing Adsorption with Experiments
B-TP-007	謝京宏	國立臺北科技大學	Effects of polar modifier on chiral recognition mechanism in normal phase and reverse phase using amylose-based sorbent
B-TP-008	許毓家	臺北科技大學	Elucidation of retention behavior of solutes using different solvent modifiers and development of the retention model for reverse phase liquid chromatography
B-TP-009	楊子承	國立成功大學	Exploring the formation of thread through the falling drops and preparing into a fine fiber
B-TP-010	蔡佩晴	國立臺灣科技大學	Ultrapure Performance Osmotic Power Generators Enabled by Single Submicrometer-scale Pores with High Surface Charges
B-TP-011	田鎮豪	國立中央大學	Using Simulation to Design a Commercial Process of Recovering Ga from Gallium-containing Leaching Solution by Modified Resin
B-TP-012	林祐安	國立成功大學	Investigation of encapsulating two different individual particles in droplet-based microfluidics
B-TP-013	黃思賢	國立臺北科技大學	The solvent effects on the retention mechanisms of chiral molecules using Chiralpak IB
B-TP-014	薛任杰	國立中央大學	Effects of Baffle Configuration and Tank Size on Spherical Agglomerates of Dimethyl Fumarate in a Common Stirred Tank
B-TP-015	張鈞雯	國立中央大學	Engineering Reaction and Crystallization and the Impact on Filtration, Drying, and Dissolution Behaviors: The Study of Acetaminophen (Paracetamol) by In-Process Controls
B-TP-016	楊佳翎	國立中央大學	Mixing Effect on Stoichiometric Diversity in Benzoic Acid-Sodium Benzoate Cocrystals
B-TP-017	陳佳筠	國立成功大學	Atypical AC Electrokinetic Flows caused by STM Probe
B-TP-018	范士文	國立清華大學	Analysis of Flow Field in a Rapid Diagnosis Device
B-TP-019	古凱方	長庚大學	Chiral purification of L-menthol by combining melt crystallization and vaporization
B-TP-020	Chih-Ting Liao	逢甲大學	Product Recover on a Centrifugal Platform
B-TP-021	張育瑄	國立成功大學	Anomalous AC Electrokinetic Flows Due to Electrothermal and Faradaic Double Layer Polarization
B-TP-022	鄭家春	國立成功大學	Hybrid Multizonal/CFD Approach for Shell and Tube Reactor Modeling
B-TP-023	翁仲毅	國立臺灣科技大學	Unraveling Enhanced Salinity Gradient Power with Branched Alumina Nanochannels
B-TP-024	蔡啞雍	國立中興大學	Application of Mixed Matrix Membranes Incorporating Ionic liquid Capsules in Gas Separation
B-TP-025	辜鴻威	國立臺灣大學	A Biomimetic Single-pore Ionic Circuit Enabled by Subnanochannel Metal-Organic Frameworks
B-TP-026	范莉雅	國立臺灣大學	Electrophoresis of Soft Particle near The Air-Water Interface
B-TP-027	羅立苻	中原大學	Simulation of the Mixing in a Spinning Disk Reactor
B-TP-028	蔣睿耘	國立中興大學	PDMS/starch microspheres mixed matrix membranes for water/butanol pervaporation application
B-TP-029	賴建丞	國立臺灣大學	Approaching the Soft-Sphere Discrete Element Modelling Spring-Damper Parameters by Contact Mechanics
B-TP-030	楊令琇	國立臺灣大學	Numerical Analysis the Effect of Temperature on the Cyclone Performance
B-TP-031	Hana Nur Aini	中原大學	Fouling resistant PVDF/zP(S-r-4VP) membranes formed via VIPS process
B-TP-032	廖翊淳	國立臺灣大學	Absorption of Hydrophilic and Hydrophobic Volatile Organic Compounds Simultaneously in a Rotating Packed Bed
B-TP-033	楊振杰	國立臺灣大學	A Bioinspired Osmotic Power Generator Enabled by Continuous Sub-nanochannel Metal-Organic Frameworks UiO-66-(COOH) ₂ Membranes
B-TP-034	Guan-Wei Huang	國立宜蘭大學	Polyester Thin-Film Composite Membranes: Effect of Polyol Chemical Structures on Nanofiltration Performance
B-TP-035	Chung-Hsien Wu	國立宜蘭大學	A Study of Water Additive Effect on Performance of Cellulose Acetate Porous Membrane for Oil/Water Emulsion Separation
B-TP-036	黃文哲	國立宜蘭大學	Polyelectrolyte-Graphene Quantum Dots Electrostatic Self-Assembly Composite Membrane for Pervaporation Dehydration of Aqueous Isopropanol Solution
B-TP-037	胡立人	國立宜蘭大學	Piperazine-Based Polyamide Composite Nanofiltration Membranes for efficient dye/salt separation
B-TP-038	陳廣宇	國立宜蘭大學	Effect of Cosolvent on Characterization and Performance of Cellulose Acetate Membrane for Oil-Water Emulsion Separation
B-TP-039	楊智惟	國立宜蘭大學	Sodium Alginate (SA) / Sulfonated Polyelectrolyte Composite Membranes for Dehydrating Isopropanol Aqueous Solution by Pervaporation
B-TP-040	Guan-Ting Li	國立宜蘭大學	Characterization and Oil/Water Emulsion Separation Performance of Asymmetric Ethyl Cellulose Membranes Prepared by Using Different Surfactants
B-TP-041	黃瀚杰	國立宜蘭大學	A Study of Surfactant Effect on Nanofiltration Performance for Polyamide Thin-Film Composite Membranes Prepared by Different Polyamine Monomers

B-TP-042	李雪菱	國立臺灣大學	Fabrication of Mussel-inspired tannin coated PVDF membrane for oil-in-water emulsion separation
B-TP-043	賴語柔	國立臺灣大學	Interfacial Polymerization Using Ceramic Hollow Fiber as Support to Prepare Polyamide Thin-Film Composite Membrane for Nanofiltration
B-TP-044	陳彥齊	國立臺灣大學	Bio-inspired Sweat Collector for Real-time Health Monitoring
B-TP-045	紀宇軒	國立清華大學	Automated Microfluidic-Based Valve Controlling System for Continuous Protein Purification
B-TP-046	葉祖豪	國立宜蘭大學	3D Printing: Micro-Factory of Ceramic Separation Membranes in the Future

C. 熱力及界面工程 (TP-1)

時間 : 10/23 15:20-18:00

地點 : 化工館壁報區

壁報展示與學生競賽 B

報告編號	作者	單位	題目
C-TP-001	許竣凱	國立中山大學	Synthesis of PEO-b-Zwitterionic Block Copolymers for Solid-State Electrolytes
C-TP-002	李昱德	國立中山大學	Preparation of Zwitterionic-Grafted Silicon Oxide Nanoparticles for Solid-State Electrolytes
C-TP-003	洪聖翔	國立臺灣科技大學	Determining the critical micelle concentration from contact angle data: applicability towards cationic DTAB
C-TP-004	鄭庭宇	國立臺灣大學	Enhancement of Liquid Mixing in Porous Media Composed of Particles with Contradictory Hydrophilicity
C-TP-005	邱子恆	國立成功大學	Development of Coarse Grain Model for Charged Amphiphiles with Distance-dependent Dielectric Constant
C-TP-006	邱鈺絮	國立臺灣大學	Formulation of Well-dispersed Hydroxyapatite Nanoink for Artificial Ligaments Applications
C-TP-007	陳建良	國立中央大學	Computational Investigation of Gas Transport Behavior in UiO-66-Based Mixed Matrix Membranes
C-TP-008	周禹彤	國立臺北科技大學	High Sensitivity Tactile-Sensory Fibers for Smart Textiles
C-TP-009	陳姿蒨	國立臺灣科技大學	Iron-Coordinating Conjugated Semiconducting Polymer in Organic Field-Effect Transistors
C-TP-010	楊筑宜	國立臺灣大學	Understanding Uncertainties in Deep Learning for Molecular Property Predictions
C-TP-011	張言萍	國立中興大學	Adhesion enhancement of electroless-deposited Cu metallization on Si through covalent siloxane bonding by rapid thermal annealing
C-TP-012	梁祐榮	國立臺灣大學	Research on the influence of the substrate curvature induced potential wells to DNA diffusion on supported lipid bilayers
C-TP-013	陳翎輝	國立清華大學	Ni/SnSe ₂ interfacial reaction
C-TP-014	施彥任	國立臺灣大學	Improvement of LLE Prediction from COSMO-SAC Near Critical Point using Transformation of Variables and Renormalization Group Theory
C-TP-015	林佳瑩	國立成功大學	Characterization of microalgal oil delivery carriers fabricated by a homogenization-filtration-extrusion approach
C-TP-016	黃楚雲	國立臺灣大學	Characterization of Phase Diagram and Structural Properties of Diblock-Copolymer Self-Assemblies Using Dissipative Particle Dynamics Simulations
C-TP-017	林佳諭	國立成功大學	Study of Surfactant-enhanced Hydrodistillation of Lemon Oil and its Applications
C-TP-018	林冠亨	國立臺北科技大學	Molecular Dynamics Study of Rhamnolipid Micelle in Aqueous Solution
C-TP-019	黃鈺庭	國立雲林科技大學	Dispersion Characteristic Of Dimethyldimethylammonium Bromide Mixed With Surfactant A In Water
C-TP-020	陳韋丞	國立高雄科技大學	PMMA/TiO ₂ composite with shark-skin structure for totally inhibition of biofilm formation
C-TP-021	Chu, Kang-Ching	國立中央大學	Pressure-gated Capillary Nanovalves Based on Liquid Nanofilms
C-TP-022	江孟庭	國立清華大學	Hyaluronic Acid on Protein-Conjugated Gold Nanoparticles
C-TP-023	莊淑婷	國立清華大學	Aerosol-based Synthesis of Vanadium Oxide Nanoparticles with Enhanced Surface Area for Supercapacitor Applications
C-TP-024	黃昱銘	國立中央大學	Interactions of self-propelled droplets with immiscible liquid droplets
C-TP-025	韓宗佑	國立清華大學	Light-induced anthracene-crosslinked polyurethanes with stretchable, transparent, water-resistive, antibacterial, and healable properties for multiple applications
C-TP-026	Siam Hussain	國立臺灣科技大學	Solubility determination of surface-active compounds from dynamic surface tension data
C-TP-027	張心瑀	國立臺灣大學	Physical crosslinks in maleicanhydride grafted polypropylene
C-TP-028	林譽蓉	國立中央大學	Water-in-Oil Emulsion Glass as Supporting Mediums for 3D Printing
C-TP-029	蕭宇庭	國立清華大學	A Stretchable, Self-Adhesive, and Self-Healing Polymer with strategic adjustments of coordination and multiple hydrogen bonds for wearable electronic sensors
C-TP-030	王識傑	國立高雄科技大學	Directly Growing MoS ₂ Nanoflakes on Hydrated Activated Carbon Prepared from Coffee Grounds and Applied in Electrochemical Supercapacitors
C-TP-031	林韋澄	國立清華大學	Explore the effect of introducing cyclopentadiene derivative into the D-A type polymer photocatalyst for visible-light-driven hydrogen evolution
C-TP-032	Afifah Nur Ubaidillah	國立臺灣科技大學	Composition Design of Self-healing Polymer Binder for Silicone Anode in Lithium Ion Batteries
C-TP-033	吳沛璇	國立高雄科技大學	Research on Low Temperature Gas Sensor for Fabrication of Flexible Zinc Oxide Sensing Layer
C-TP-034	孫珮綺	國立成功大學	Ethanol and Cholesterol Effects on the Bilayer Rigidity of Catanionic Vesicles by Using Fluorescence Polarization Technique
C-TP-035	江瑋凡	元智大學	Investigation of surface properties of Helix atmospheric plasma induced grafted acrylic acid onto Polytetrafluoroethylene

D. 材料在化工之應用 (TP-1)

時間 :10/23 09:00-12:00

地點：化工館壁報區

壁報展示與學生競賽 A

報告編號	作者	單位	題目
D-TP-001	鍾子麒	明志科技大學	Preparation and Characterization of Waterborne Polyurethane/Montmorillonite Composites
D-TP-002	王竹萱	東海大學	The Study of the Urease Adsorbed on γ -Fe ₂ O ₃ Magnetic Nanoparticles
D-TP-003	胡智凱	國立清華大學	Interfacial reactions and their related phase diagrams in (Cu-Ni)/Pb-Te-Se thermoelectric modules.
D-TP-004	陳泰宇	國立高雄科技大學	Incorporating catechol group in to SBMA/HEMA hydrogels to form multifunctional biomaterials
D-TP-005	賴柏丞	國立成功大學	3D printing of nanocomposite hydrogels by surface modified cellulose nanocrystals
D-TP-006	楊巧詣	國立臺灣科技大學	Surface Finish Layer Effect on Solder-Joint Microstructure
D-TP-007	林欣慧	中原大學	Highly-conductive silk fibroin hydrogels: mechanical property and electrochromism study
D-TP-008	郭虹蚊	國立中央大學	Perovskite YFeO ₃ /Carbon Fiber Composite Electrode for Organic Wastewater Treatment
D-TP-009	丁郁軒	元智大學	Synthesis and stimuli-responsive properties of tetraphenylethene (TPE)-based block copolymers through RAFT living polymerization
D-TP-010	丁郁軒	元智大學	Synthesis and cell viability of doxorubicin-loaded block polymeric micelles through RAFT living polymerization
D-TP-011	郭棋禎	明志科技大學	The development of sheath-core waste fiber recycling technology
D-TP-012	馮喬	國立成功大學	3D printing of polyimide aerogels and zirconia ceramics
D-TP-013	蔡宏岳	國立成功大學	3D Printing of Reinforced Biobased Polyesters
D-TP-014	周承毅	國立成功大學	Synthesis of core-shell microparticles by serpentine SAW microchips
D-TP-015	羅子軒	國立成功大學	3D Printing of Porous Materials by RAFT Mediated Emulsion Polymerization and Alumina Ceramics
D-TP-016	沈明慧	逢甲大學	Morphology characterization of ternary blended organic thin films with indacenodithiophene-based electron acceptors
D-TP-017	莊采珊	逢甲大學	Selective colorimetric sensing of cyanide ion via nickel macrocyclic complex sensor with thiourea binding sites
D-TP-018	涂家耘	國立清華大學	Development of NiPd-CeO ₂ @SiO ₂ Hybrid Nanoparticle Clusters For Steam-promoted CO ₂ Reforming with Methane
D-TP-019	李佳玟	國立成功大學	Fast and oxygen tolerant photo-induced living polymerization mediated by deep eutectic solvents
D-TP-020	徐佳榕	國立高雄大學	Synthesis of a Luminescent Molecular Imprinting Polymer Nanocomposite Via Encapsulation Approach for Biorecognition
D-TP-021	徐佳榕	國立高雄大學	Preparation of Molecularly Imprinted luminescent Polymer Nanocomposites by in Situ Polymerization and Its Application in Biorecognition
D-TP-022	謝紹擎	逢甲大學	Application of PbS/graphene based composite films for Efficient solar steam generation
D-TP-023	藍珈揚	國立中正大學	Interfacial reactions of electroless Co(B) diffusion barrier with lead-free Sn solder
D-TP-024	蔡竣宇	國立中正大學	Studies on electroless Co(P) technology and electroless deposition kinetics
D-TP-025	李冠賢	國立高雄科技大學	Superhydrophobic/Superoleophilic Sponge for separate water and oil
D-TP-026	林珈琪	國立中央大學	Dithioalkyl Dithienothiophene (DSDTT) Based Small Molecule and its Blends for High Performance p-type Organic Field Effect Transistors by Solution-Sheared process
D-TP-027	張仁碩	元智大學	Preparation and application of TiO ₂ nano-powder on dye degradation
D-TP-028	張桂憶	國立臺灣科技大學	Atmospheric-pressure microplasma-assisted one step synthesis of photoluminescent silicon quantum dots for detection of dopamine
D-TP-029	蔡宜庭	國立成功大學	Kinetics of depsiptide formation promoted by deep eutectic solvents
D-TP-030	曾佳得	國立中央大學	Reproducible Crystallization of Sodium Dodecyl Sulfate-1/8 Hydrate by Evaporation, Antisolvent Addition, and Cooling
D-TP-031	陳秉旭	國立中央大學	Influences of Defect Degree in Zirconium Metal-Organic Framework on Mixed Matrix Membrane Performance
D-TP-032	郭芮妤	長庚大學	Enhanced Photovoltaic Performance of Lead-free Silver Bismuth Iodide Rudorffite Solar Cells by Monovalent Cation Doping
D-TP-033	Ho-Chun Huang	逢甲大學	D-A Type of Electron Donor Molecules for Polymer Solar Cell
D-TP-034	黃婷苙	明志科技大學	Synthesis and application of novel coumarin-based fluorescence probe
D-TP-035	王建閔	國立臺灣科技大學	Bioinspired Covalent Organic Framework Heterogeneous Membranes with Sub-2-nm Nanochannels for High-Performance Osmotic Energy Generation
D-TP-036	鄭維欣	國立高雄大學	Green and Red Bis(piperidyl)anthracene AIE luminogens Incorporating in Reactive Acrylic Oligomer Photocured for White Light-Emitting Diodes

D-TP-037	林佑穎	國立高雄大學	Performance evaluation of polymer containing electroactive units applied to an adhesive in electrode materials for supercapacitors
D-TP-038	廖昱豪	國立雲林科技大學	Enhanced Photovoltaic Properties of Dye-Sensitized Solar Cells by Incorporating Unpconversion Nanoparticles in a Low Temperature Process
D-TP-039	葉博森	國立中央大學	Graphene oxide membranes prepared by spray coating method as barrier film
D-TP-040	張雅筑	國立雲林科技大學	Fabrication of Highly Efficient Perovskite Solar Cells at High Humidity Atmosphere
D-TP-041	潘緯辰	國立雲林科技大學	Contact lenses with high oxygen permeability
D-TP-042	林騏宏	長庚大學	Fiber Diameter Effect on VOCs Optical Sensor Based on Electrospun Ag/PMMA Film
D-TP-043	劉晁沂	明志科技大學	Performance improvement of organic solar cells by adding interfacial modification layer
D-TP-044	劉晁沂	明志科技大學	Application of Non-Fullerene Carbon Quantum Dot Materials in Interface Modification Layer for Organic Solar Cell
D-TP-045	陳宜庭	中原大學	Electrical conductivity, electrochromism and reversible contraction of functional composite spider fibers
D-TP-046	段映竹	國立中正大學	Electromigration behaviors of (Cu,Ni) ₆ Sn ₅ in lead-free solder joints
D-TP-047	董聿軒	國立交通大學	Mechanochemically Triggered Fluorescence "Turn on" of an Anthracene Carboximide Diels-Alder Adduct for Stress-Sensing
D-TP-048	何睦璇	長庚大學	Synthesis of hydrophilic cadmium-free silver sulfide quantum dots by microfluidic reaction method
D-TP-049	Pei-Lun Chen	元智大學	Surface Treatment of Polyimide Substrates by Cyclonic Atmospheric Pressure Plasma
D-TP-050	蔡子揚	國立臺灣科技大學	Interfacial Reactions between the Sn-0.7 wt.%Cu solder and Cu-3.3 wt.%Fe alloy (C194)
D-TP-051	張詠淇	國立臺灣科技大學	Interfacial Reactions in the Sn-3.0Ag-0.5Cu/C194 Couples
D-TP-052	林廷翰	長庚大學	Highly Efficient Solar-Driven Photodegradation on Antibiotics by Self-Precipitated Ag NPs/TiO ₂ Nanofiber Photocatalyst
D-TP-053	陳喜兒	國立高雄科技大學	Spent coffee grounds as photothermal materials
D-TP-054	張培暄	國立中興大學	Surface modification of photoanode and its application in dye-sensitized solar cells
D-TP-055	趙思涵	淡江大學	Hydrothermal/Solvothermal Synthesis of Tungsten Diselenide for Capacitive Deionization
D-TP-056	楊知玫	國立清華大學	Dendrimer-mediated Columnar Mesophase of Surfactant
D-TP-057	陳信翰	國立高雄科技大學	Preparation and Fire Resistance of Water-Based Intumescent Silicate Composites
D-TP-058	張憶茹	國立臺灣科技大學	Microplasma-Engineered Silicon Quantum Dots as the Fluorescent Nanoprobes for Copper Ion Detection
D-TP-059	張榕宸	國立臺灣科技大學	One-Step, Ambient-Condition Synthesis of Biomass-Derived Nitrogen-Doped Graphene Quantum Dots for Dopamine Nanosensors
D-TP-060	楊皓東	國立臺灣科技大學	Atmospheric Microplasma Assisted Synthesis of Graphene Quantum Dots Decorated with AuAg alloy for Synergistic Effect on SERS
D-TP-061	黃啟奕	國立高雄大學	Electrochemical co-deposition of aminobenzoyl-functionalized graphite /self-doped polyaniline/molybdenum trioxideternary composite electrodes applied to supercapacitors
D-TP-062	詹之筑	國立中興大學	Effects of crystallographic preferred orientations of electroplated nanotwinned copper on void formation of solder joints
D-TP-063	Pravanjan Malla	長庚大學	Magnetoimmunosensor for quick detection of Parathyroid hormone
D-TP-064	黃逸弘	國立清華大學	Catalyst Layer Formulation and its Influence to Polymer Electrolyte Membrane Fuel Cell Performance
D-TP-065	楊舜翔	國立中央大學	Control morphology and passivate defects via vacuum-assisted and additive engineering process for perovskite solar cell
D-TP-066	陳孟哲	國立清華大學	Existence of Frank-Kasper Sigma phase in conformationally symmetric block copolymer/homopolymer blend
D-TP-067	溫士僑	國立成功大學	Pneumatic-driven soft robot via digital light printing
D-TP-068	Ming-Lun Yu	中原大學	Effect of varying the molecular design of random copolymer on the biofouling mitigation of PVDF membranes
D-TP-069	黃彥馨	國立臺灣科技大學	Synthesis of intrinsic elasticity and self-healing semiconductor materials with luminescent properties
D-TP-070	郭家銘	國立臺灣科技大學	Preparation of Copper Oxides Composite Fibers by Microwave Plasma for Antibacterial and Photocatalytic Applications
D-TP-071	劉宗樺	國立臺灣科技大學	Preparation of 3D-PDMS Sponge for Effective Oil-Water Separation
D-TP-072	黃敬家	國立成功大學	Layer-by-layer self-assembly polypeptide with silica mineralization as antireflective coatings
D-TP-073	李展毅	國立臺灣科技大學	Synthesis interpenetrating polymer network hydrogel from calcium alginate and zwitterionic polymer for microneedle patch as transdermal drug carrier
D-TP-074	蔣宏璋	國立臺灣科技大學	In vivo degradation study of polyvinylidene fluoride/polybutylene succinate/modified organic montmorillonite nanocomposite films implanted in the gastrointestinal tract
D-TP-075	吳志耀	國立中央大學	Solution-Processable Diketopyrrolopyrrole-Based Small Molecules for n-Type Organic Field-Effect Transistors
D-TP-076	張景翔	大同大學	Surface modified carbon apply on supercapacitors

D-TP-077	陳綾瑄	國立臺灣大學	Fabrication of Dielectric Structure for Capacitive Sensor via Stereolithography
D-TP-078	曲家霏	國立臺灣大學	Formulation of Solvent-Free Stretchable Conductive Paste
D-TP-079	徐璋	國立中央大學	Fabrication and Characteristics of Vertical-aligned Nanopore Arrays on Flexible Silicon
D-TP-080	陳以燈	國立中央大學	Fabrication of flexible well-ordered polymer nanostructure with the combination of the nanosphere lithography, anodization and pore-filling processes
D-TP-081	吳維妮	國立中央大學	Stretchable Rod-Coil Block Copolymer Thin Film Organic Transistor Applications via Metallo-Supramolecular Strategy
D-TP-082	林育詩	國立清華大學	Spherical Porous Nanoclusters of NiO and CeO ₂ Nanoparticles as Catalysts for Syngas Production
D-TP-083	Wei-Liang Jhang	國立成功大學	Fabrication of multilayer nanocrystal arrays in a homogeneous polymer matrix
D-TP-084	劉堯柔	國立高雄大學	The Study on the Preparation of Sulfonated Polystyrene Blended With Synthesized Ionic Liquids for the Proton Exchange Membrane Fuel Cells
D-TP-085	李育霖	元智大學	Surface Treatment of ITO by Cyclonic Atmospheric Pressure Plasma
D-TP-086	林冠憲	國立臺北科技大學	Incorporating redox additives in sodium hydroxide electrolyte for energy storage device with the nickel cobalt molybdenum oxide active material
D-TP-087	陳思廷	國立中興大學	Nanoparticle Dispersion and Crystallization of the Au Nanoparticle-Polystyrene-Poly(L-lactide) Nanocomposite Films
D-TP-088	徐簾禔	國立高雄科技大學	Electrosynthesis of copolymer based on 3,6-bis(N-carbazolyl)-N-phenyl carbazole and 3,4-ethylenedioxythiophene for electrochromic device
D-TP-089	劉晏禎	國立聯合大學	Optical and Mechanical Properties of Ultrasonic Spray Deposited PMMA based Nanocomposite Polymer Electrolytes
D-TP-090	廖明筠	國立臺灣大學	2D Cs ₂ Pb(SCN) ₂ Br ₂ -based Photomemory Devices Showing a Photo-Induced Recovery Behavior and an Unusual Fully Optically-Driven Memory Behavior
D-TP-091	曾品涵	國立高雄科技大學	Preparation of flexible MoS ₂ /ZnO P-N Heterojunctions gas sensor with low operating temperature
D-TP-092	許瓊庭	東海大學	Synthesis and surface modification of γ -Fe ₂ O ₃ magnetic nanoparticles
D-TP-093	楊東霖	國立中正大學	Ligand Effects on the CsPbBr ₃ Quantum dot/Poly(3-hexylthiophene) Based Photomemory
D-TP-094	楊晴樺	國立臺北科技大學	In-situ synthesis of co-metal organic framework in carbon nanofibers by electrospinning for flexible supercapacitors
D-TP-095	甘名揚	國立臺灣大學	Fabrication of Dense Metal-Organic Membrane with Dielectric Barrier Discharge Plasma
D-TP-096	楊巧詣	國立臺灣科技大學	Interfacial Reactions of Au-xAg/Al Couples
D-TP-097	翁人杰	國立臺灣科技大學	The Application of N-GQDs Synthesized by Chitosan on Fe ³⁺ Sensing
D-TP-098	葉份叡	國立臺灣大學	Microplasma-Engineered Nanoassembly of Core-Shell Plasmonic Nanoparticles for Ultrasensitive Flexible Surface-Enhanced Raman Scattering Substrates
D-TP-099	陳怡君	國立臺灣大學	Full atom-efficiency transformation of wasted polycarbonates into epoxy thermosets and the catalyst-free degradation of the thermosets for environmental sustainability
D-TP-100	葉博森	國立中央大學	Graphene oxide membranes prepared by spray coating method as barrier film
D-TP-101	Dula Daksa Ejeta	國立臺灣科技大學	Preparation of superhydrophobic cotton/polymer material for efficient water-in-oil emulsion separation
D-TP-102	莊純璋	國立成功大學	The transfer effect of nanocrystalline defects for GaN p-n junctions of core-shell structures
D-TP-103	董聿軒	國立交通大學	Mechanochemically Triggered Fluorescence "Turn on" of an Anthracene Carboxyimide Diels-Alder Adduct for Stress-Sensing
D-TP-104	劉家鐸	國立臺灣科技大學	Preparation of SiO _x Thin Films as the Barrier Layer By Atmospheric Pressure Plasma Deposition
D-TP-105	Teng-Hsuan Pan	國立臺灣科技大學	Enhancement of Sound Transmission on Electroless Copper Plated Plastic Mouthpiece Applied for Brass Instruments
D-TP-106	Hoang-Linh Bui	國立中央大學	Dopamine-assisted photo-polymerization for the fabrication of multi-functional hydrogel
D-TP-107	Gavin Sison	國立臺灣大學	Nucleation and Crystal Growth of Bulk Si ₁ -XGeX Alloy for Use as a Thermoelectric Material

E. 電化學技術 (TP-1)

時間 : 10/24 09:00-12:00

地點 : 化工館壁報區

壁報展示與學生競賽 C

報告編號	作者	單位	題目
E-TP-001	戴呈璋	國立清華大學	Rapid microwave-assisted polymerization of phenolic-formaldehyde resin to produce hard carbon used for anode of LIB and LIC
E-TP-002	白浩	臺北科技大學	Heteroatom Doping Strategy for Establishing Hematite Homo Junction as Efficient Photocatalyst for Accelerating Water Splitting Reaction
E-TP-003	王慈珮	國立高雄科技大學	Sonoelectrochemical Preparation of Defective Phosphorene Nanosheets as Catalysts for Hydrogen Peroxide Reduction Reaction and Uric Acid Oxidation Reaction
E-TP-004	王宜晴	國立成功大學	Pore-Confined Silver Nanoparticles in a Porphyrinic Metal-Organic Framework for Electrochemical Nitrite Detection
E-TP-005	賴承佑	國立雲林科技大學	Improvement of gaseous acetone removal by a bioelectrochemical system with a novel gas diffusion layer for cathodes
E-TP-006	王韻雅	逢甲大學	Combinatorial design and rapid screening of nickel oxide based catalysts for oxygen evolution reaction
E-TP-007	李怡慧	逢甲大學	Detection of Organic Additives in Copper Plating Baths
E-TP-008	徐國舜	逢甲大學	Catalysis of Urea Oxidation for Hydrogen Production
E-TP-009	劉上慈	國立清華大學	The High-Speed Direct-Current Electrodeposition of Nanotwinned Copper Induced by Thiol Organic Additives
E-TP-010	Yu-Min Lin	國立高雄科技大學	Rhombic Dodecahedral, Octahedral, and Cubic Palladium Nanoparticles for Electrochemical Reduction of N ₂ to NH ₃
E-TP-011	李知恆	國立清華大學	DFT Studies of the Mechanisms of Lithium Ion Battery Electrode via High Entropy Oxides
E-TP-012	陳韋誠	國立中央大學	High-Voltage Electrolyte used for Li-Ion Batteries using LiNi _{0.5} Mn _{1.5} O ₄ Cathode
E-TP-013	黃鈞偉	國防大學理工學院	Effect of Graphene doping on Enhancing the Sulfation inhibition and Electrochemical Properties in Negative Electrodes of Lead-Carbon Battery
E-TP-014	廖奕愷	國立宜蘭大學	Feasibility study upon exploring bioenergy applications of edible rhubarb extracts
E-TP-015	陳君皓	大同大學	Spray-dry synthesis of Li _{1.17} Ni _{0.28} Mn _{0.58} O ₂ as high-voltage cathode materials for lithium-ion batteries
E-TP-016	戴伯軒	國防大學理工學院	Effect of hetero-elements doping of aluminum alloy anodes on improving the electrochemical performance of aluminum metal batteries
E-TP-017	De-Chian Chen	國立臺灣大學	Hydroxymethylfurfural-derived Materials for Electrochromic Applications
E-TP-018	林禹澄	國立中正大學	Synthesis of Nickel Sulfide and Cobalt Sulfide Anchored on Reduced Graphene Oxide for Anode Materials of Na-ion Batteries
E-TP-019	劉湘渝	淡江大學	On the Performances of the Complementary Electrochromic Devices using Micropatterned Electrochromic Films
E-TP-020	陳彥霖	國立中央大學	Carbon fiber composite applied for lithium-ion battery anode
E-TP-021	Ying-Ru Chen	明志科技大學	Si/C materials combined with different types of conductive carbon blacks to make composite anodes and their performance studies
E-TP-022	饒文揚	國立清華大學	Adjusting hydrophobicity in catalyst layer to improve the performance of rechargeable zinc-air battery
E-TP-023	Guan-Yin Lin	明志科技大學	Preparation of Lithium Iron Phosphate Cathode Material by a Sol-Gel Method with different amount of graphenes
E-TP-024	蘇御帆	淡江大學	On the Prussian blue Nanoparticles as Electrode Materials for Aqueous-based Secondary Batteries
E-TP-025	朱廷軒	國立中正大學	Hard Carbon Derived from Biomass as Anode Materials for Sodium-ion Batteries
E-TP-026	Da Je Hsu	國立清華大學	Synthesis and Characterization of Nitrogen-Doped Graphene Nanowalls by Plasma-Enhanced Chemical Vapor Deposition Using Different Carbon Sources for High Voltage Supercapacitors
E-TP-027	王柏元	國防大學理工學院	Effects of the Concentration and Structure of Carbon Additives on Structure Evolution and Electrochemical Properties of Negative Electrodes in Lead-Carbon Battery
E-TP-028	鄭家昕	國立成功大學	Fabricating low interfacial resistance electrolytes by using polyether electrospun membrane for application in all-solid-state lithium batteries
E-TP-029	李傳儀	大同大學	Free-standing carbon nanotubes decorated with electrodeposited NiSe for hybrid supercapacitors
E-TP-030	Jen-Yu Lee	國立臺灣大學	A spiro-twisted benzoxazine as crosslinkable modifier in polyethylene oxide (PEO) for all solid lithium ion batteries
E-TP-031	Chi-Yu Lai	國立清華大學	Investigation of Dendrite Suppression Gel Electrolyte for Li metal Batteries
E-TP-032	楊喻翔	國立清華大學	CuHCF Prussian Blue Analogue and Polypyrrole As a Battery Material for High-capacity Deionization
E-TP-033	龍昱丞	國立中央大學	Hybrid Li ₇ La ₃ Zr ₂ O ₁₂ Solid-State Electrolyte for Lithium Batteries
E-TP-034	王莉茜	國立清華大學	Bi-functional cross-linked gel polymer electrolyte for organic quasi-all solid-state supercapacitor
E-TP-035	李定原	國立成功大學	In-Situ Synthesis of Solid-State Polymer Electrolytes for Lithium Ion Batteries.
E-TP-036	江健璋	國立清華大學	Synthesis and characterization of electrospun polyimide nanofibers for the separator of electrical double-layer capacitors
E-TP-037	陳鎮淵	國立高雄大學	Electropolymerization of α -Synuclein Peptides Imprinted Polymers for the Electrochemical Determination of Parkinson's Disease Biomarker
E-TP-038	Pei-Hsuan Chung	國立臺北科技大學	Li-ion Solid State Electrolyte Enhanced with β -Phase PVDF-HFP Electrospun Nanofibers
E-TP-039	游庭瑄	國立清華大學	Developing and Optimizing Ru-based Oxides/3D Carbon Material Catalyst for Rechargeable Metal-Air Battery Application
E-TP-040	王民璋	國立聯合大學	Electrochemical Characteristics of Carbon Felt-TiO ₂ -Pd Composite Electrode for Redox Flow Battery Application

E-TP-041	陳郁琪	國立清華大學	Synthesis of Polyvinyl alcohol-capped Ag nanoparticles and Its Application in Electroless Copper Deposition
E-TP-042	劉宇傑	國立清華大學	Fabrication of a Self-charging Photocapacitor Embedding a Solid State Y123-Sensitized Solar Module and a MnO ₂ -Based Interdigitated Supercapacitor
E-TP-043	張朝翔	國立臺灣大學	Maleic Anhydride as an Electrolyte Additive for Recycled-Silicon Negative Electrode of Lithium Ion Batteries
E-TP-044	郭家宜	國立清華大學	Highly Adhesive Wet Metallization Using Micro Surface Roughening on Photo-Imageable Dielectric Material
E-TP-045	Duc-Anh Le	國立清華大學	A novel chemical control of Methylamine treatment for the preparation of high-quality MAPbI ₃ Perovskite films
E-TP-046	羅暉閔	國立清華大學	Manipulating Magnetism of Metallized Diamond Powder by Electroless Co-Ni Alloy Plating
E-TP-047	施曉權	國立清華大學	Organic Residues in Perovskite Solar Cells : Characterization and Correlation with Device Performance
E-TP-048	廖偉傑	國立清華大學	Carbon dioxide reduction reaction (CO ₂ RR) on Silver Based Catalyst using Membrane Electrodes
E-TP-049	張弘達	國立中興大學	Study of corrosion inhibition behavior of copper in photoresist stripper containing nitrogen compounds
E-TP-050	黃緯帆	國立成功大學	Preparation of Ceria/FTO based pH Sensors
E-TP-051	姜羽柔	國立臺灣科技大學	Designing a novel configuration of photoelectrochromic device to realize the optical complementary
E-TP-052	吳瑜庭	國立臺灣科技大學	Robust CoMn sulfide nanolayer as counter electrode for dye sensitized solar cell
E-TP-053	Mia Rinawati	國立臺灣科技大學	Designing a Non-enzymatic Biosensor using Ni-MOF-74 for Glucose Detection in Human Sweat
E-TP-054	Sofiannisa Aulia	國立臺灣科技大學	Designing ZIF-67 Derivatives Decorated N-doped Carbon Nanotubes as a Bifunctional Electrocatalyst for Rechargeable Zinc-air Battery
E-TP-055	詹俊德	國立臺灣科技大學	Enhancing the Stability of Poly(butyl viologen) Film by Different Anions
E-TP-056	王榆媛	國立臺灣科技大學	Designing ZIF-67 derived Electrocatalysts with Bifunctional Tailorability for Rechargeable Zn-air Battery
E-TP-057	唐嘉陞	國立臺灣大學	Fabrication of Solid State Printed Transparent Supercapacitor as Origami Structure
E-TP-058	陳冠丞	長庚大學	Electrochemical immunosensor for detection of parathyroid hormone in human serum
E-TP-059	Phan Pham Anh Thu	國立清華大學	EFFECT OF TEMPERATURE ON TiO ₂ ELECTRODEPOSITION IN APPLICATION OF PEROVSKITE SOLAR CELLS
E-TP-060	王偉彥	國立清華大學	Effect of different solvents on amino-terminated silane modification and its influence on the adhesion between electroless Ni-P film and Si wafer
E-TP-061	蔡尚融	雲林科技大學	Catalyst-doped graphene nanocomposite for ppb-level ammonia gas sensing
E-TP-062	張逸儒	雲林科技大學	Detection of NO ₂ gas using tungsten oxide-based hybrids at room-temperature
E-TP-063	蘇盈洲	大同大學	Facile synthesis of NiS @ NiCoP core-shell nanocolumn arrays as electroactive materials for supercapacitors
E-TP-064	Nideesh Perumbalathodi	國立清華大學	Development of low toxicity fabrication of perovskite solar cell using inorganic CuSCN hole transporting layer and Aqueous Lead -Nitrate Precursor
E-TP-065	賀威翰	國立成功大學	Vanadium-Based Polyoxometalate Adsorbed in a Metal-Organic Framework for Electrocatalytic Dopamine Oxidation
E-TP-066	白睿宇	國立清華大學	Engineering of electrospun polyimide separators for electrical double-layer capacitors and lithium-ion cells
E-TP-067	Shih-Hao Lin	國立清華大學	Characterization of a Ni(OH) ₂ nanoparticle based lactic acid sensor with a porous structure to increase the detection range
E-TP-068	Vinh Son Nguyen	國立清華大學	Correlation Between 4-tert-Butylpyridine-Coordinated Copper Redox Mediators and Long-Term Stability of Dye-Sensitized Solar Cells
E-TP-069	劉勛盛	國立成功大學	Ion Transport Mechanisms of Solid Polymer Electrolyte with Silsesquioxane Crosslinking Polyethylene Glycol Framework for Lithium-Ion Battery: A Molecular Simulation Study
E-TP-070	陳鈺穎	國立清華大學	A Novel Three-step Approach for the fabrication of All-inorganic CsPbI ₂ Br Perovskite Film
E-TP-071	陳儀華	國立成功大學	Effects of polymer composition and lithium salts on the on-site coagulation of gel polymer electrolyte for
E-TP-072	詹俊德	國立臺灣科技大學	Developing a Non-invasive electrochemical sensor using N-GQD decorated NiWO ₄ for Uric Acid Detection in Urine
E-TP-073	Sofiannisa Aulia	國立臺灣科技大學	Designing Oxygen Plasma Activated NiFe Prussian Blue Analogues Interconnected with N-CNTs as Bifunctional Electrocatalyst for Rechargeable Zinc-air Battery
E-TP-074	Mia Rinawati	國立臺灣科技大學	Integration of heteroatom-doped Graphene Quantum Dots into MOF-derived NiFe LDH for Electrocatalytic Water Splitting
E-TP-075	吳瑜庭	國立臺灣科技大學	Developing ZIF-67 derived NiCo LDHs for enzyme-free electrochemical lactate sensor and its application to noninvasive human sweat monitoring
E-TP-076	姜羽柔	國立臺灣科技大學	Highly Transparent Poly(A2:D77)aniline/rGO Composite Film as an Electrocatalytic Layer in Photoelectrochromic Devices

F. 綠色化工技術與程序系統工程 (TP-1)

時間 :10/23 15:20-18:00

地點：化工館壁報區

壁報展示與學生競賽 B

報告編號	作者	單位	題目
F-TP-001	林冠佑	國立臺北科技大學	Simulation and Optimization of a Hydrogen Self-sufficient Bio-oil Hydrodeoxygenation Process
F-TP-002	曾宥瑜	國立臺北科技大學	Optimization of Stand-Alone Hybrid Membrane Osmosis Desalination Systems with Membrane Cleaning Schedule
F-TP-003	賴羿宏	國立宜蘭大學	Effect of Alcohol Treatment on Physical Property of the Skin-friendly Dressing
F-TP-004	許世育	國立臺北科技大學	Optimization of Reverse Osmosis Desalination Powered by Photovoltaic and Pressure Retarded Osmosis
F-TP-005	陳藝文	國立臺灣科技大學	Application of solar evaporation by three-dimensional porous clay material
F-TP-006	李玟儀	國立臺北科技大學	Special wetttable underwater superoleophobic material for effective simultaneous removal of high viscous insoluble oils and soluble dyes from wastewater
F-TP-007	王耀緯	義守大學	Study on Purification of Fructooligosaccharides by Simulated Moving Bed
F-TP-008	鄭鈞鴻	國立宜蘭大學	The Influence of Electrospinning Parameters PLA/SF/CS on Fiber Diameter
F-TP-009	許昭錦	元智大學	Cation exchange resin assisted electrodialysis for formic acid enrichment
F-TP-010	林政余	中興大學	Feasibility study on reactive distillation with double reactive sections through an evolutionary algorithm
F-TP-011	張若玟	國立宜蘭大學	The influence of bean dregs content for the skin-friendly circulatory dressing
F-TP-012	游林軒	中原大學	Auto-Generating Semi-Supervised Multi-KPLS Models without Pre-Classification of Monitoring Nonlinear Processes
F-TP-013	莊晴雯	中原大學	Enhancing Identification of Closed-Loop Nonlinear Processes Using Kernel Subspace Hammerstein Model and Over-sampling Scheme
F-TP-014	盧怡靜	長庚大學	Improve the efficiency of perovskite solar cells by adding long carbon chain solvents to lead acetate aqueous
F-TP-015	吳敬鈴	國立清華大學	Continuous Droplet-based Microfluidic Synthesis of Metal-organic Frameworks
F-TP-016	徐宏斌	國立清華大學	Real-Time Monitoring of Mold Filling in Vacuum Assisted Resin Transfer Molding by Using Infrared Thermography
F-TP-017	林雨璇	國立清華大學	Microwave-assisted synthesis of polyurethane prepolymer in continuous-flow system
F-TP-018	陳品勳	中原大學	Automatic Segmented Slow Feature Analysis for Monitoring Long-term Batch Processes
F-TP-019	賴固蓉	國立雲林科技大學	Stimulation of diesel degradation and biosurfactant production by soil microbial fuel cell
F-TP-020	朱庭均	國立雲林科技大學	Copper ion removal by sediment microbial fuel cell using biochar-based oxygen-releasing beads
F-TP-021	許景翔	國立成功大學	Optimal Retrofit Designs of Multi-Plant Heat Exchanger Networks with Reasonable Benefit Allocation Plans.
F-TP-022	林雨璇	國立清華大學	A Kilogram Scale High Pressure Stirred Tank for the Synthesis of 1-Methyl-3-Butyl-Imidazole and 1-Methyl-3-Propyl-Imidazole Chlorides
F-TP-023	黃凱銘	南臺科技大學	Recovery of High Purity N-methyl-2-pyrrolidone (NMP) from Solvent Waste by Microwave Distillation System
F-TP-024	涂承懿	國立成功大學	Optimal Design and Maintenance Strategies of Multi-Layer Standby Mechanisms in Continuous Chemical Processes
F-TP-025	劉沿易	國立成功大學	Generation and Verification of Operating Procedures Based on Timed Automata

G. 觸媒與反應工程 (TP-1)

時間 : 10/24 09:00-12:00

地點 : 化工館壁報區

壁報展示與學生競賽 C

報告編號	作者	單位	題目
G-TP-001	葉珈彤	逢甲大學	Investigation of Samaria Doped Ceria Catalyst for Methane Oxidation and Effect of Oxygen Vacancy
G-TP-002	葉丞禧	國立清華大學	single-atom metal catalysts
G-TP-003	古浩銓	國立臺灣大學	Ruthenium (II)-Based Metallo-Supramolecular Polymers as Heterogeneous Catalysts for Catalytic Transfer Hydrogenation of Benzaldehyde to Benzyl alcohol
G-TP-004	杜芳毅	國立臺灣大學	Surface Chemistry of Dimethyl Carbonate on CeO ₂ Nanocrystals
G-TP-005	謝忠恩	逢甲大學	Investigation of Metal Oxide Catalyst for CO ₂ Oxidative Coupling of Methane
G-TP-006	陳育成	逢甲大學	Catalysis in Ammonia Fuel Cell
G-TP-007	蔡政廷	逢甲大學	BiOBr / Bi ₂ O ₃ Br ₁₀ / Ni complex as a composite photocatalyst for photocatalytic hydrogen production
G-TP-008	鄧名竣	逢甲大學	Enhanced photocatalytic hydrogen production by MnS@Ag ₂ S core-shell photocatalysts
G-TP-009	楊哲銘	國立清華大學	Porous Base Nanoparticles for Catalysis of Transesterification to Biodiesel Production
G-TP-010	鄭守訓	逢甲大學	Metal Nanoparticle Catalyst Evolved from Parent Perovskite for Partial Methane Oxidation
G-TP-011	邱子昀	國立臺灣科技大學	Preparation of silver nanowire by polyol reduction method and its application to flexible conductive film
G-TP-012	黃亭蓁	國立勤益科技大學	Preparation of recyclable nitrogen-doped Fe ₃ C/Ag composite catalyst for 4-nitrophenol reduction.
G-TP-013	李世晟	國立臺灣大學	Kinetics of Anharmonic Systems: Uncoupled Mode Approximations for Reaction Rate Estimations
G-TP-014	楊凱翔	國立清華大學	Density Functional Theory Investigation of Hydrogen Activation on Ru/MgO Catalysts
G-TP-015	朱紋嫻	國立勤益科技大學	Preparation of recyclable nitrogen-doped Fe ₃ C/Ag composite catalyst for 4-nitrophenol reduction.
G-TP-016	葉份勸	國立臺灣大學	A High-Efficient and Catalytic Platform reduction 4-Nitrophenol Based on Reusable Au@Ag nanoparticle / cellulose paper
G-TP-017	黃振哲	國立成功大學	Optimization of Glycerol Oligomerization in Presence of γ -Alumina Supported Ca/Ce Mixed Oxides
G-TP-018	楊宜霖	國立臺灣大學	Synthesis of N-heterocyclic Compounds with Nitrate Reduced Ammonia and Carbohydrates
G-TP-019	趙倍瑤	逢甲大學	Metal complex/ZnS decorated Ni foam as efficient immobilized photocatalysts for hydrogen production
G-TP-020	劉庭璋	國立成功大學	Biofuel from Hydrotreatment of Soybean Oil In presence of Ni-Mo/ZSM-5 Bimetallic Catalysts
G-TP-021	王柏凱	國立中央大學	Improving the photocatalytic hydrogen evolution reaction of UiO-66-NH ₂ @Au from first principles
G-TP-022	白乙均	國立臺灣大學	Diels-Alder conversion of Acrylic Acid and 2,5-Dimethylfuran to para-Xylene over Heterogeneous Bi-BTC Metal-Organic Framework (MOF) Catalysts under Mild Conditions
G-TP-023	Yu-Shuan Yang	逢甲大學	Tailoring Hydrophobicity of Cuprous Oxide/ Polyimide Film for Photocatalytic Conversion of Carbon Dioxide
G-TP-024	李承家	國立成功大學	Ni catalysts derived from carbon-induced reduction of Ni phyllosilicates in the hydrogenation of levulinic acid to γ -valerolactone
G-TP-025	闕呂祐	國立清華大學	Transition Metal Doped Tungsten Oxide Nanowire as Acid Stable Support for OER Catalyst
G-TP-026	林昱佑	國立高雄科技大學	LaNi-based Perovskite Oxides to Degrade Organic Pollutants through Photo-Fenton under Solar Light Irradiation
G-TP-027	蕭文捷	國立高雄科技大學	The Fe-based Metal-Organic Framework/ Titanium dioxide composite material through Photo-Fenton Reaction under Solar Irradiation to enhance the degradation effect of Organic dyes
G-TP-028	陳柔安	國立高雄科技大學	Preparation of Mesoporous TiO ₂ with Sodium Dodecyl Sulfate Surfactant and High Photocatalytic Degradation of Wastewater
G-TP-029	趙一如	逢甲大學	Improved Photocatalytic Activity of Titanium Dioxide by Using Tea Leaf as Template
G-TP-030	吳瑞琪	國防大學理工學院	Application of CoMn-Composite Oxides on CO Oxidation
G-TP-031	Ahmed Mahmoud Elewa	國立清華大學	Triptycene-Based Discontinuously Conjugated Covalent Organic Polymer Photocatalysts for Visible-Light-Driven Hydrogen Evolution from Water
G-TP-032	蔡語珮	國立臺灣科技大學	A Theoretical Investigation of Catalytic Properties of α -Fe ₂ O ₃ (104) towards CH ₄ Conversion and CO ₂ Reduction
G-TP-033	羅冰瑩	國立臺灣科技大學	Insights into the Catalytic Properties of CeO ₂ (111) and (110) surfaces towards CO ₂ Conversion-A Theoretical Study
G-TP-034	廖國兆	國立臺灣科技大學	A First-Principles Study on Two-Dimensional NiPS ₃ for Gas Sensors: Effects of Doping and Defects

H. 能源與環境工程 (TP-1)

時間 :10/23 15:20-18:00

地點 : 化工館壁報區

壁報展示與學生競賽 B

報告編號	作者	單位	題目
H-TP-001	林佳儀	國立成功大學	Pyridoxal kinase (PdxY) mediated carbon dioxide utilization and biomass enhancement in mixotrophic culture of <i>Chlamydomonas reinhardtii</i> CC400
H-TP-002	許碩巖	國立臺北科技大學	Study of pH value effect on Synthesizing UIO-66 and Carbonized UIO-66 as Active Material of Solid-state Supercapacitors
H-TP-003	吳希彥	國立臺灣大學	Assessment of Agricultural Waste-Derived Activated Carbon in Multiple Applications
H-TP-004	陳其伸	國立清華大學	Density Functional Theory Investigation of Nanocatalysts: A Case Study of Oxygen Reduction Reaction in Fuel Cells
H-TP-005	林育呈	國立宜蘭大學	Improving the performance of dye-sensitized solar cells with adding titanium dioxide nanoparticles into the electrolyte
H-TP-006	黃威銘	國立成功大學	Sodium Tungsten Oxide Nanowires-Based Transparent Flexible All-Solid-State Supercapacitors with Solar Thermal Enhanced Performance
H-TP-007	馮彥翔	國立成功大學	Bimetal-Organic Frameworks/Graphene Oxide Derived Cobalt Oxides/N-Doped Reduced Graphene Oxide Nanocomposites as Bifunctional Electrocatalysts for Zn-Air Battery with Solar Thermal-Enhanced Performance
H-TP-008	Kuan-Ting Chen	國立清華大學	Bi-Sb Nanocrystals Embedded in Phosphorous as High Performance Potassium Ion Battery Electrodes
H-TP-009	李定祥	中原大學	Condition simulation and microbial phase efficiency observation of Anammox reactor rapid start
H-TP-010	洪鼎翔	國立臺灣大學	Coulomb Effects on CO ₂ Permeation in Metal-Organic framework Membranes
H-TP-011	張兆鵬	國立臺灣大學	Enhanced cycle stability by controlling structural phase transformation with cation doping
H-TP-012	郭家程	國立臺灣大學	Zeolite GIS Membrane for Separation of Water and Alcohols
H-TP-013	Ana Maria Barbisan	國立清華大學	UV-O ₃ treated low-temperature bilayer planar electron transport layer for Perovskite Solar Cells
H-TP-014	陳映澄	國立清華大學	Understanding Hydrogen Storage Mechanisms via Pt ₄ Supported Defective Graphene-A DFT Study
H-TP-015	陳峰	雲林科技大學	Wearable energy storage devices by using high performance 3D network V ₂ O ₅ printing paper electrodes
H-TP-016	廖晟宏	國立臺灣大學	Application of Artificial Interphase on Ni-Rich Cathode Materials in All Solid State Li-Ion Batteries
H-TP-017	許長琨	國立臺灣大學	Valorization of Plastic Wastes from Catalytic Pyrolysis: Cost-Effective Production of Carbon Nanotubes
H-TP-018	彭彥城	明志科技大學	Influence of Photoelectric Performance for Perovskite Solar Cells With Polymer
H-TP-019	彭彥城	明志科技大學	Influence of Transparent Conductive Silver Nanowire Electrodes in High-Efficiency Polymer Solar Cells
H-TP-020	Hsin-Fu Chen	國立中央大學	Removal of salicylic acid by UV/chlorine process
H-TP-021	張藝齡	國立成功大學	Treatment of dairy manure wastewater using a microalgal-bacterial symbiotic system
H-TP-022	Celine H. Chen	布朗大學 國立臺灣大學	Tailoring Pore Size and Optical Properties of Zirconium-Based MOF Photocatalysts for the Degradation of Emerging Contaminants
H-TP-023	楊乃維	國立臺灣大學	Scalable synthesis of Porous Silicon from Kerf Loss Waste as Anode Material for Lithium-ion Batteries
H-TP-024	Abrar Hussain	元智大學	Preparation and Characterization of WO _x and ZrO ₂ Catalysts Admixed with Cu-ZnO-ZrO ₂ Catalyst for Direct Synthesis of DME from CO ₂ Hydrogenation
H-TP-025	Megananda Eka Wahyu	元智大學	Characterization of Pyrolytic Product Composition of Rice Straw Residue
H-TP-026	胡育洋	國立交通大學	Externally Regulated Triboelectric Voltage Output with a Photoresponsive Spiropyran-Functionalized Polymer.
H-TP-027	顏世偉	國立成功大學	Thermogravimetric analysis and kinetics simulation of sorghum distilled residue
H-TP-028	江芷妮	元智大學	Polybenzimidazole grafted silicon oxide ethyl phosphoric acid membrane for high temperature PEMFC
H-TP-029	林俞杉	元智大學	Investigation of microporous layer of low temperature proton exchange membrane fuel cell
H-TP-030	陳昱廷	國立臺灣大學	The Atmospheric Aging of Black Carbon Particles Induced by Simulated Sunlight
H-TP-031	陳貝妮	長庚大學	Effects of adding graphene oxide on polyvinyl alcohol membrane properties and direct alkaline methanol fuel cell performance
H-TP-032	張哲璋	國立清華大學	Densely Packed UV-Visible Light Responsive Photocatalytic Pairs in Hexagonally Arrayed Silicate Nanochannels for Hydrogen Production
H-TP-033	賴建東	國立交通大學	Utilization of sludge for producing advanced microbial fertilizer
H-TP-034	何品謙	國立臺北科技大學	Photo-Curable Fluoroelastomer for Solid Electrolyte of Lithium Ion Battery
H-TP-035	陳世杰	國立臺北科技大學	Study of Power Saving for Hydrogen Production Using Fuel-Assisted SOEC with Different Fuels
H-TP-036	陳世軒	長庚大學	Controlling Nucleation and Defect Passivation of Perovskite Solar Cells by Graphitic Carbon Nitride
H-TP-037	陳世軒	長庚大學	Scalable Fabrication of Efficient Perovskite Solar Cells on Low-temperature Electron Transport Layer
H-TP-038	劉雅君	中國文化大學	Influence of pretreatment of inorganic salt addition on cellulose conversion reaction after ball milling under hydrothermal conditions
H-TP-039	Tran Vuong Gia Dai	國立臺灣科技大學	Solar-Powered Water Desalination by Using 3D-Printed Graphene/Resin Layers