

時間: 11/10(日) 08:30~09:55

地點: 真知教學大樓1F中庭廣場

海報張貼時間: 08:20~08:30

海報撤除時間: 09:30~09:40

Paper No.	壁報編號	論文題目	學校	發表者
0575	PO314	Ethylene glycol-treated PET as a linker source for solvent-free synthesis of metal-organic framework	臺北市立第一女子高級中學	陳姝澄
0655	PO315	Electrochemical Implications of Sintering Temperature on Titanium Niobate Anode on Lithium-Ion Battery	中原大學	李庚樺
0601	PO316	雙層微孔層設計以改善電解質膜材	元智大學	黃聖博
0923	PO317	A novel methyl urea-based deep eutectic solvent for high-performance zin-ion batteries with polyaniline/graphene nanofiber composite cathode	東海大學	陳勻榛
0860	PO318	Improving efficient solar hydrogen generation via photocatalytic water splitting using MoS2 deposited on three dimensional NaTaO3 photocatalyst	東海大學	Tingxuan Zhu
0476	PO319	短支鏈磺酸根離聚物複合膜應用於質子交換膜燃料電池	元智大學	張以暄
0880	PO320	Universal non-square diameter law for flame-driven droplet combustion arising from buoyancy convection	國立成功大學	方崇安
0240	PO321	Silane coupling agent surface modification strategies to enhance the interfacial compatibility between PVDF-HFP/PPC polymer systems and LLZAO garnet-type inorganic powders for Lithium metal battery applications	國立中央大學	陳冠諭
0900	PO322	Development of Non-Enzymatic Electrochemical Sensors for Hydrogen Peroxide Detection Using CZIF-8 and Au@CZIF-8 Nanomaterials	國立中興大學	陳芳琪
0411	PO323	Polyvinyl Alcohol Hydrogel with Titanium Trioxide and Carbon Nanotubes used for Solar Water Evaporation and Thermoelectric Applications	國立臺灣大學	王鈺皓
0366	PO324	Recyclable N-Type Thermoelectric Ionogel for Wearable Applications and Multifunctional Processing Strategies	National Taiwan University	Yu-Syuan Jheng
0804	PO325	Development of a rigorous model on the hydrothermal liquefaction (HTL) process of lignin for biofuels production.	國立台灣大學	黃煒恩
0320	PO326	Development of Nickel-Doped ZIF-67 Derivatives for High-Performance Supercapacitor Electrodes	國立雲林科技大學	李東融

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0385	PO327	Synthesis and Characterizations of Boron-doped Graphene Quantum Dots/CsPbBr ₃ Perovskite Quantum Dots for White Light Emitting Diodes Applications	中原大學	鄞苑怡
0266	PO328	Morphology-controlled bimetallic phosphides as bifunctional electrocatalysts for HER and OER	國立雲林科技大學	李佩玲
0391	PO329	P2 Type-Na _{0.8} Cu _{0.2} Fe _{0.4} Mn _{0.4} O ₂ Layer Oxide Cathode Synthesized through Co-precipitation Method for Sodium Ion Batteries Applications	中原大學	黃靖芸
0482	PO330	新型Bio-Hair/MXene摩擦奈米纖維於能源織物的開發	義守大學	呂沂儒
0824	PO331	Osmotic Power Generation System with Antifouling Diblock Copolymer-Modified Ion-Selective Membrane	國立中央大學	廖涵涓
0781	PO332	以靜電紡絲技術開發含有兩性離子之複合雙層凝膠態電解質	國立台灣科技大學	許淘鈞
0687	PO333	Reduced-graphene Oxide based Bifunctional Electrode for High-performance Dye-sensitized Photo-rechargeable Ion Capacitors	國立台灣科技大學	Li-Xin Huang
0800	PO334	Polycarbazoles as potential electrochromic electrodes for dual type electrochromic devices with satisfactory open circuit memory	國立雲林科技大學	Shang-Cheng Kuo
0888	PO335	Charge Storage and Transprt at Heterojunctions in Energy and Electronic Devices	國立臺灣大學	Cheng-Han Weng
0349	PO336	Electrosynthesis of copolymer based on 9,9' -(oxybis([1,1'-biphenyl]-4',3-diyl))bis(9H-carbazole) and 2,2'-biselenophene for electrochromic device	國立高雄科技大學	郭上丞
0806	PO337	Synthesis and Application of Zwitterionic Core-shell Block Copolymers on Solid-state Electrolyte	國立台灣科技大學	曾靚
0469	PO338	Synergistic combination of polydopamine and polypyrrole in natural pectin/PVA-based freestanding electrodes for high-performance supercapacitors	國立中興大學	劉若穎
0553	PO339	Enhancing Performance by Reducing Buried Interface Defects in Formamidinium-based Perovskite Solar Cells	國立中興大學	李昀珊
0754	PO340	Application of Tetramethoxysilane in protected Lithium anode for Hybrid electrolyte Lithium-air batteries	Chang Gung University	Abdul Baqi
0356	PO341	Preparation of Li ₆ PS ₅ Cl sulfide electrolyte with high ionic conductivity and high chemical stability by oxygen doping for lithium all-solid-state battery applications	中原大學	羅羽

Paper No.	壁報編號	論文題目	學校	發表者
0712	PO342	Maximizing Efficiency and Stability in FAPbI ₃ Perovskite Solar Cells Through Advanced Thermal Processing and Defect Passivation	國立成功大學	薛莉婷
0004	PO343	Ultrasonic Spray Deposition of Tungsten Trioxide Nanocrystalline Films	國立聯合大學	蘇建中
0839	PO344	Preparation of Zwitterionic- functionalized Ceramic Fillers for Compositied Polymer Electrolytes	國立台灣科技大學	李兆翊
0340	PO345	Hierarchical ordered porous carbon derived from ZIF-8 on electrochemical performance	國立雲林科技大學	王晨洋
0201	PO346	NiFe-oxide decorated coffee grounds-derived carbon for supercapacitors	國立聯合大學	王昱婷
0647	PO347	Developing Fast Response rGO/WO ₃ Composite Layer to Achieve High Photocoloration efficiency Photoelectrochromic Devices	國立臺灣科技大學	Zhi-Yu Jiang
0578	PO348	觸媒層中不同電解質對於電池性能的影響	元智大學	蔡翔安
0554	PO349	Investigating PTAA Derivatives as High-Efficiency Hole Transport Layers in SnPb Perovskite Solar Cells	國立中興大學	王張濤
0293	PO350	V、Ta等元素添加對 AlTiZrNb 高熵合金系統之電化學腐蝕行為研究	國立中正大學	張泰中
0068	PO351	Recovering Lead Iodide through a Simple Solvent Method to Promote the Sustainable Development of Perovskite Solar Cells	國立清華大學	Min An Wei
0551	PO352	Nafion/PTFE複合膜材應用於質子交換膜水電解電池	元智大學	蕭偉傑
0237	PO353	Photo-enhanced catalytic performances in zinc-air battery using Cu-Sn-Se as the photocathodes.	長庚大學	洪佑昌
0351	PO354	四氧化二銻與還原氧化石墨烯之複合材應用於鈉離子電池負極材料	國立中正大學	邱亭維
0123	PO355	Nano-crystalline Fe ₃ V ₃ O ₈ Material as an Efficient Advanced Anode for Energy Storage Applications	中原大學	吳培駿
0216	PO356	透過過渡金屬提升六氟基鐵酸鈮穩定性做為可充式水系鋅離子電池正極	國立雲林科技大學	廖紹淳

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0194	PO357	以丁二腈作為增容劑之丁腈橡膠/聚環氧乙烷共混物柔性固態電解質	國立台北科技大學	蔡典諺
0795	PO358	2D Metal-Triflate-Ionic-COFs for Enhancing Perovskite Solar Cell Performance and Stability through Dual-Interface Modulation and Surface Passivation	National Tsing Hua University	Ahmed Fouad Musa
0057	PO359	Dual-Functional Tunable Electric Field Single-Atom Fe-N Coupling Structure Applied to Superior Potassium Ion Storage and Optimization of Potassium Metal Battery Deposition	國立清華大學	曾彥揚
0065	PO360	Synthesis of Bimetallic Ni-Co Phosphide Nanosheets for Electrochemical Non-Enzymatic H ₂ O ₂ Sensing	國立中興大學	陳珮薇
0648	PO361	Superior electrochemical performance of Tin-doped NASICON-type Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ composite solid electrolyte	Yuan Ze University	Yun-Ruei Huang
0925	PO362	Achieving high-performance lithium-ion batteries through layered GeSe/thermally-reduced graphene oxide composites.	東海大學	柯昱祺
0465	PO363	Computational Discovery of Ternary Alloys as Promising Electrocatalysts for Hydrogen Production	國立清華大學	何家柔
0171	PO364	Co and Sn codoped Ni ₃ S ₂ catalyst for electro-oxidation of urea	National Yunlin University of Science and Technology	Ming Jie Zhang
0397	PO365	Continuous Aerosol Synthesis and Real-time characterization of MOF-Derived Hybrid Catalysts for Methanol Production	國立清華大學	史筱萱
0749	PO366	使用含雙氧水廢硫酸與碳酸鈣進行反應用以回收二氧化碳氣體之研究	國立台北科技大學	陳致中
0399	PO367	Aerosol Metal Organic Framework-derived Ni-Zn-Al Hybrid Catalyst using Methane Bi-reforming	國立清華大學	Tien-Yu Yang
0751	PO368	Self-Assembly of Serpent coral-Inspired Hierarchical Structures for Heat Dissipation	國立中興大學	林信華
0886	PO369	Novel Biotic Method for Preparing Humic-Like Substances: Enhancing Aliphatic Components through Yeast-Mediated Synthesis	國立中興大學	Mahmoud M.M. Ahmed
0891	PO370	Mechanisms of Abiotic Humification: Catalytic Role of Manganese Dioxide in the Formation of Humic-Like Acids	National Chung Hsing University	Min-Chien WU
0673	PO371	Life Cycle Assessment of Low-Carbon Bio-Based Adipic Acid Production	國立清華大學	唐宇全

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0694	PO372	Carbon Dioxide Captured by Amino Acids Containing Deep Eutectic Solvents	國立台灣大學	紀宏宜
0572	PO373	Evaluating PTSA and DRPSA for Post-Combustion CO2 Capture	國立臺灣大學	饒函書
0594	PO374	Unraveling a novel biphasic CO2 capture process through rigorous modeling	國立台灣大學	Yu-Sheng Chen
0103	PO375	Sequential Removal of Trivalent Iron and Aluminum Ions in Water as Metal Hydroxides using Fluidized Bed Homogeneous Crystallization Technology	逢甲大學	陳彥妘
0702	PO376	Development of TPMS-Structured Activated Carbon Adsorbers via DLP 3D Printing for Efficient Sulfur Removal in Adsorptive Desulfurization	國立宜蘭大學	郭明翰
0213	PO377	Cultivation of microalgae for high carbohydrate production with bicarbonate and evaluation of their application feasibility	國立成功大學	謝雅蓁
0822	PO378	Designing TADF-exciplexes through electronic transmission material as host for high efficiency organic light emitting diodes (OLEDs)	靜宜大學	賴珮瑜
0318	PO379	利用表面活化和改質的多壁奈米碳管有效去除廢水中的有害對硝基苯胺	明志科技大學	溫上德
0437	PO380	Study of Methane Bi-reforming Using Bimetallic Hybrid Catalysts Combined with a CO2 Recirculation System: A Pathway to Blue Hydrogen Production	國立清華大學	張凱博
0780	PO381	Predicting Industrial Time Series Data Using Large Language Models	台灣科技大學	張嘉倫
0845	PO382	Detection of Perfluoroalkyl substances using low-temperature plasma-based mass spectrometry	國立聯合大學	徐士恩
0640	PO383	Hydrothermal carbonization of lignin: Proposing a detailed kinetic model and life cycle assessment (LCA)	國立台灣大學	蘇子承
0796	PO384	DLP-Printed Heavy Metal Sensors Using Cysteine as a Metal Ion Catcher and In-Situ Microplasma Generated GQD-Embedded Photocurable Resin as Fluorescent Indicator	國立宜蘭大學	楊鈺祈
0641	PO385	A Novel Sustainable Method for Synthesizing Methyl (R)-3-hydroxybutyrate via Utilization of Carbon Dioxide	Mingchi University of Technology	Subhankar Dhar
0592	PO386	以旋風式烘烤設備進行農業廢棄物製備生質碳材對直接電鍍銅製程廢液之銅吸附可行性研究	國立勤益科技大學	林煜翔

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0696	PO387	AMPPZ混合溶劑之CO2捕捉程序建模與優化設計	淡江大學	趙毅章
0543	PO388	A Mass Transfer Study of Rotating Packed Beds for Process Scale-up	國立台灣科技大學	羅玥騏
0127	PO389	A simulation study of Hydrogen-Rich Gas-Based Shaft Furnace by an Aspen Plus Model	國立成功大學	張宸語
0549	PO390	A Study on Isopropanol-Assisted CO2 Hydrogenation over Cu/ZnO Catalysts for Methanol Synthesis	National Taiwan University	Zhi Pin Law
0546	PO391	海藻酸鈉矽氧烷型界面活性劑於芳香應用	萬能科技大學	陳文蕊
0398	PO392	Metal-Organic Framework-derived Base Catalyst for the Green Synthesis of Glycerol Carbonate	國立清華大學	陳幼軒
0314	PO393	Enhancing Sodium-Ion Batteries with Na Metal as Anode using Nonflammable Phosphate-Based Electrolytes	國立高雄科技大學	許乃文
0524	PO394	Bioderived aerogel with switchable hydrophilic and porosity for ultrafast oil-water separation	National Taiwan University	Yi-Jui Yeh
0119	PO395	利用奈米零價鐵摻雜高分子去除六價鉻合成與鑑定	元智大學	謝沛均
0110	PO396	Nickel-based Nanocatalysts for Efficient Hydrogen Production with Catalyst Regeneration via CO2 utilization	國立清華大學	吳芊葳
0645	PO397	非絕熱型氨催化產氫製程開發與評估	國立臺灣科技大學	楊仙羽
0827	PO398	Electroactive Photocatalysts for Efficient Organic Dye Degradation Under Visible Light	南臺科技大學	張善羽
0723	PO399	單寧酸與檸檬酸共還原之銀奈米粒子催化降解工業廢水中之有毒染料	大同大學	張詠智
0785	PO400	結合3D列印與微電漿技術製備可循環使用之高效催化還原4-硝基苯酚的奈米觸媒反應器	國立宜蘭大學	姚秀美
0392	PO401	Optimization and Development of Rapid Heavy Metal Detection in Water Using Plasma in Solution with Optical Emission Spectroscopy	國立台灣大學	江依珍

Paper No.	壁報編號	論文題目	學校	發表者
0842	PO402	Improving the low-pressure CO2 adsorption capacity of Uio-66-NH2 via impregnated with deep eutectic solvent	國立中央大學	童譔宇
0420	PO403	咖啡渣生物炭應用於鹼性阻熱建材塗料之研究	東海大學	徐若庭
0736	PO404	Process Design for Glycerol Carbonate (GC) Production via Direct Conversion of CO2	國立台灣大學	Ting Wei Huang
0814	PO405	Using Transformer-based Language Models for Polymer Property Prediction	國立臺灣科技大學	林甫軒
0746	PO406	Design and Optimization of Acrylonitrile Production through Propylene Ammoxidation	長庚大學	Hong-Ye Wu (吳泓曄)
0376	PO407	Fabrication of Si/SiOx/C Composite Negative Electrodes for Lithium-Ion Batteries Based on Recycling Silicon-Based Materials from Discarded Solar Panels	國立中央大學	蘇綉婷
0682	PO408	Development of refining program model for electric arc furnace steelmaking during melting period	國立台灣大學	李智霖
0590	PO409	Optimal Design of Integrated Crystallization-Filtration Process	國立台灣大學	方銘君
0665	PO410	整合逆滲透與緩壓滲透之獨立運行海水淡化系統設計與分析	國立臺北科技大學	洪妤姘
0639	PO411	基於深度學習模型對固態氧化物燃料電池進行異常診斷與長期退化趨勢預測	國立台北科技大學	歐士賢
0091	PO412	應用彈性指標於單塔蒸餾製程之優化與分析	國立臺灣科技大學	陳宥榮
0864	PO413	A Comparative Study of International Renewable Energy Supply Chains Utilizing Compressed and Liquefied Hydrogen as Energy Carriers	國立台灣大學	李俊誠
0863	PO414	Optimizing the Production of Electronic-Grade Isopropanol: Energy Efficiency and Yield Enhancement through Process Simulation	國立清華大學	羅翊心
0094	PO415	丙二醇甲醚酯化製程設計與控制 Design And Control of Esterification Process for Propylene Glycol Methyl Ether	國立台灣科技大學	梁欣慧
0232	PO416	Elastic hysteresis of hydrogel: Mullins effect, training effect, and stress relaxation	國立中央大學	高宜靜

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0805	PO417	Analyzing Molecule Transport in MOF Materials Using Microkinetic Simulations	國立台灣大學	蕭力維
0837	PO418	Optimization of pH Neutralization for Water Network Design	國立成功大學	葉立穩
0678	PO419	Prediction of hydrocarbon-water interfacial tension using Large Language Model (LLM)	國立臺灣科技大學	林威良
0063	PO420	Utilizing Aspen Plus to Simulate The Continuous Reactor for Hydroxyl-Terminated Polybutadiene Free Radical Polymerization and Separation Purification Process Design	國立中央大學	楊宜萱
0898	PO421	Application of Kolmogorov-Arnold and Deep Neural Networks for Modeling Gibbs Free Energy of Mixing Modified by Global Renormalization Group Theory	國立清華大學	李季恩
0210	PO422	Continuous-time Modeling of Batch Processes Using Graph Recurrent Neural Networks for Estimating Unmeasured Data Points	中原大學	陳坤郁
0911	PO423	A Comprehensive Study of Reinforcement Learning Algorithms for Basic Chemical Processes: A Case Study on Continuous Stirred Tank Reactors (CSTR)	國立臺灣科技大學	李垂珉
0620	PO424	Influence of side-chain length and density on diffusion behavior of polyethylene using coarse-grained MD simulation.	國立台北科技大學	饒芯如
0705	PO425	Rigorous design and analysis of an integrated process of hydrogen production through ammonia decomposition and the Fischer-Tropsch reaction of CO ₂	國立台灣大學	楊承叡
0623	PO426	直接氨氣固態氧化物燃料電池結合尾氣再循環系統之研究	國立台北科技大學	許鉦隆
0158	PO427	Utilizing Machine Learning to Predict Heavy Metal Concentrations based on Plasmas in Solution with Optical Emission Spectrometry	國立台灣大學	陳亮宇
0552	PO428	Generating an Unifying Equation Integrating Material, Energy Balances and Equilibrium Relationships Using Neural Networks for Multicomponent Distillation Columns	國立台灣科技大學	邱柏嘉
0085	PO429	Study on Reducing the Dielectric Constant of Polyimide in the 10-40 GHz Range through Crosslinking Techniques	國立成功大學	張桔源
0330	PO430	Room-Temperature Self-Healing Polyurethane for Flexible Stretchable Resistive Strain Sensors	國立台灣大學	溫璿慈
0402	PO431	A Combined Molecular Dynamics Simulation and Quantum Chemical Approach to investigate the Coefficient of Thermal Expansion in Polyimides with Bulky Pendant Groups and Alicyclic Structures	國立台灣科技大學	楊翊正

Paper No.	壁報編號	論文題目	學校	發表者
0661	PO432	3D printing of UV-curable nanoparticle inks for direct optical patterning	University of Hamburg/ National Taiwan University	Duy Long Nguyen
0598	PO433	The Dispersion Effect of Long-Chain Alkylamines on the Silver Nanowires/Rubber Nanocomposites for Fully Stretchable Field-Effect Transistors	國立台北科技大學	Shao-Ming Chen
0899	PO434	Toughening of Epoxy Thermosets with Comb-like Amphiphilic Block Copolymers Bearing Cyano Groups	國立高雄科技大學	曾國鎰
0233	PO435	Fabrication of diffraction grating replicas using soft lithography technique and low Tg azopolymer	國立高雄科技大學	王典舜
0207	PO436	Properties of Biobased Polyesters with High Biomass ratio and Low Carbon Emissions Derived from Isosorbide, Terephthalic Acid and Biobased Diols.	國立成功大學	蔡怡安
0662	PO437	Flexible Piezoresistive Sensor Based on Natural Rubber/Chitosan/Graphene Composites with Antimicrobial and Chemical Resistance Properties	國立臺灣大學	Supakorn Suwanphiphat (黃善勃)
0272	PO438	3D-Printed Strain Sensor Based on Fumed Silica Nanoparticles and Deep Eutectic Solvents	國立中央大學	何欣蓓
0650	PO439	Colorimetric Ionic Organohydrogels for Early Extravasation Detection	國立台灣大學	林昀萱
0389	PO440	Poly(vinylidene fluoride)/Cellulose Acetate/Na _{1+x} Al _x Ti _{2-x} (PO ₄) ₃ Composite Solid Electrolyte for Sodium-Ion Batteries	國立中央大學	江苡瑜
0792	PO441	Highly Sensitive Gasochromic Fibrous Nanocomposites for Exhaled Acetone Vapor Detection	長庚大學	謝定宏
0738	PO442	Improving Chlorine Corrosion Resistance of Commercial Pt/C by P-doped Carbon Nitride Quantum Dots Modification for Dissolved Oxygen Sensor in Seawater	國立台灣科技大學	Kuan-Ling Liu
0423	PO443	Tuning Thermoelectric Performance with N-annulated Perylene-Based Small Molecules and Single-Walled Carbon Nanotube Nanocomposite Films	國立台灣大學	周哲安
0663	PO444	Using Surface-Enhanced Raman Spectroscopy Chips to Detect Biomolecules on Cell Membrane Platforms	國立臺灣大學	李柏諺
0896	PO445	二維奈米片狀材料/無色聚亞醯胺薄膜製備性質之研究	國立勤益科技大學	郭冠珉

Paper No.	壁報編號	論文題目	學校	發表者
0242	PO446	Development of Microstructure Flexible Pressure Sensors for Measurement of Mobility	中原大學	詹宇詮
0479	PO447	Effect of Bi-lateral Methyl Groups on PBAT Copolymer Enhanced the Adhesive Ability	國立臺北科技大學	詹子嫻
0816	PO448	Zwitterionic Hydrogel Coatings via Silatrane Chemistry	國立中央大學	陳芝仔
0883	PO449	水性透明防火膨脹塗料	國立勤益科技大學	陳映汝
0424	PO450	Enhancing Thermoelectric Performance of Carbon Nanotube/2D-ZrMOFs Composites via Functionalization and Solvent Effects for P-Type and N-Type Thermoelectric Generators	國立台灣大學	林政遠
0523	PO451	High anti-shrinkage performance derived from PBAT foams modified with depolymerized vitrimers	國立台北科技大學	林欣穎
0631	PO452	聚乳酸複合材料與發泡體製備	長庚大學	張修源
0692	PO453	Synthesis of Highly Fluorescent Carbon Quantum Dots inside the Matrix of Metal-Organic Frameworks and Their Application in Mercury(II) Ions Detection	國立成功大學	鄭立楷
0737	PO454	UV Curable With Fast Self-Healing Hydrogels Properties	國立臺灣大學	黃家靖
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0625	PO470	仿尤利西斯蝴蝶光子晶體之色彩調控與應用	國立中興大學	葉宸熙