

POSTERLIST

MARCH 30, 2024 (SAT)

13:00-14:30, 體育館 7F

主題 Topic	發表編號 Poster Number
無機化學 (Inorganic Chemistry)	SAT-PA-001 - SAT-PA-087
物理化學 (Physical Chemistry)	SAT-PB-001 - SAT-PB-061
分析化學 (Analytical Chemistry)	SAT-PC-001 - SAT-PC-067
有機化學 (Organic Chemistry)	SAT-PD-001 - SAT-PD-077
化學生物 (Chemical Biology)	SAT-PE-001 - SAT-PE-029
綠色化學 (Green Chemistry)	SAT-PF-001 - SAT-PF-034
光電材料 (Photoelectronic Materials)	SAT-PG-001 - SAT-PG-033
奈米孔洞材料 (Nanoporous Materials)	SAT-PH-001 - SAT-PH-012
產業應用 (Industrial Application)	SAT-PI-001 - SAT-PI-012

MARCH 31, 2024 (SUN)

09:00-10:30, 體育館 7F

主題 Topic	發表編號 Poster Number
無機化學 (Inorganic Chemistry)	SUN-PA-001 - SUN-PA-085
物理化學 (Physical Chemistry)	SUN-PB-001 - SUN-PB-061
分析化學 (Analytical Chemistry)	SUN-PC-001 - SUN-PC-067
有機化學 (Organic Chemistry)	SUN-PD-001 - SUN-PD-077
化學生物 (Chemical Biology)	SUN-PE-001 - SUN-PE-028
綠色化學 (Green Chemistry)	SUN-PF-001 - SUN-PF-034
光電材料 (Photoelectronic Materials)	SUN-PG-001 - SUN-PG-034
奈米孔洞材料 (Nanoporous Materials)	SUN-PH-001 - SUN-PH-013
產業應用 (Industrial Application)	SUN-PI-001 - SUN-PI-013

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March 30, 2024 (SAT)		
13:00-14:30	無機化學 (Inorganic Chemistry)	體育館 7F
SAT-PA-001 P01-0001	Enhanced Catalytic Activity of Novel Aluminum Complexes for the Ring-Opening Polymerization of Caprolactone (Bio-degradable Polymers) Prasanna Kumar Ganta, Kaohsiung Medical University	
SAT-PA-002 P01-0002	Hidden Hexavalent Chromium Ions with Subtle Structural Evolution in Li(Sc_{1-x}In_x)O₂:Cr Near-infrared Phosphors Yi-Ting Tsai, Academia sicica	
SAT-PA-003 P01-0003	A Potential Material for Smart Fluorescent Textile: Ag₂S Quantum Dot with Binary Layer Chi Wei Wu, Ren Jei Chung, National Taipei University of Technology	
SAT-PA-004 P01-0005	Concentration-Induced Hetero-Valent Partial-Inverse Occupation of Infrared Phosphor Yen-Ling Kuo, Chun Che Lin, National Taipei University of Technology	
SAT-PA-005 P01-0006	Short-Wave Infrared Phosphor-Converted Light-Emitting Diodes via Sharp-to-Broad Band Energy Transfer Pei-Xuan Chen, Chun Che Lin, National Taipei University of Technology	
SAT-PA-006 P01-0007	Advancing Sustainability in Quantum Dot-Vitrimer Luminescent Composites: Synergizing Chemical and Physical Recycling for Reprocessability and Self-Healing Meng-Yu Lin, Yong-Yun Zhang, Man-Kit Leung, National Taiwan University	
SAT-PA-007 P01-0009	A Synthetic C_{3v}-Symmetric Coordination Sphere Model for Copper Nitrite Reductase Yu-Ting Chu, National Sun Yat-sen University	
SAT-PA-008 P01-0010	Steric Effect of Tertiary Amines on Surface Passivation of Ce-based Perovskite Electro-catalysts Mei-Yu Chien, National Taiwan Normal University	
SAT-PA-009 P01-0011	Structural Evolution and Octahedral-Coordination Control in Cs₂Ag_{1-x}Pb_{2x}Bi_{1-x}Br₆ Perovskite Materials Wei-Lun Su, Ren-Jei Chung, National Taipei University of Technology	
SAT-PA-010 P01-0012	Donor/Acceptor Collaboratively Ligated MOF-5: Structural and Properties Modulation Ping Li, National Chi Nan University	
SAT-PA-011 P01-0013	Tuning the Pore Structures and Functional Applications by Mixed-Ligand Metal-Organic Cages Jia-Le Chen, National Taiwan Normal University	
SAT-PA-012 P01-0014	Phase transition study on a one-dimensional coordination polymer [Fe^{II}(2-PFBTP)₂(4,4'-bpy)](ClO₄)₂ · 0.5 C₂H₅OH Feng-Hua Ho, National Taipei University of Technology; Bo-Hao Chen, Yu-Chun Chuang, Chih-Wen Bao, Shu-Chih Haw, Jeng-Lung Chen, National Synchrotron Radiation Research Center	
SAT-PA-013 P01-0015	Computational study on mechanism of electrophilic halogenation on allenates/alkynoates Yumnam Nganthoinganbi, National Taiwan Normal University	
SAT-PA-014 P01-0016	High-Activity and High-Selectivity Air-Stable Nickel and Copper Complexes for Copolymerization of Epoxides with Anhydrides Mei-Ling Lin, Chen-Yen Tsai, Chinese Culture University	
SAT-PA-015 P01-0017	The Study Of NNO-2Ni-NU-1000(Zr) Applied in CO₂ Cycloaddition and Copolymerization of Phthalic Anhydride with Cyclohexene Oxide Jhao-Yu Ciou, Chia-Her Lin, National Taiwan Normal University; Chen-Yen Tsai, Chinese Culture University	

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無機化學 (Inorganic Chemistry)

體育館 7F

SAT-PA-016 P01-0018	Homogenous Electrochemical C(sp³)-H Hydroxylation by Iron(III) TAML Complexes: Introduce Oxygen from Water as Green Source Yu-Wei Chuang, National Tsing Hua University
SAT-PA-017 P01-0019	Bifunctionalized metallized UiO-66-Schiff-base-M(II) (M = Zn, Cu, and Ni) metal-organic framework catalyst for epoxide copolymerization and coupling reactions Shih-Yun Chou, Chen-Yen Tsai, Chinese Culture University
SAT-PA-018 P01-0020	Synthesis and characterization of graphene relative products via hydrothermal method Bing-Yi Liu, Ting-Yu Lin, Chou-Che Kai, National Chiayi University
SAT-PA-019 P01-0021	Modulate the Electronic Influence on Water Oxidation Catalyzed by Dinuclear Cobalt Catalysts Yu-Han Wang, National Tsing Hua University
SAT-PA-020 P01-0022	Assessing the Redox Potentials of Primary Oxidants and H₂O/O₂ in Organic Media for Water Oxidation Reaction Shun-Chien Hsiao, National Tsing Hua University
SAT-PA-021 P01-0023	Synthesis and Reactivity Study of N-aryl-N'-methylpyridyl β-Diketiminato Nickel Complexes Sihong Chen, Kaohsiung Medical University
SAT-PA-022 P01-0024	Synthesis, Structures and properties of Cd(II) Coordination Polymers Based on 4,4'-oxybis(N-(pyridine-3-ylmethyl)benzamide) Song Wei Wang, Chung Yuan Christian University
SAT-PA-023 P01-0025	Synthesis, Structures and Luminescent Properties of Divalent Metal Halide Complexes Based on N,N'-Bis(3-methylpyridyl)adipamide Yu-Hui Ye, Chung Yuan Christian University
SAT-PA-024 P01-0026	The Carbon-Carbon Coupling Mechanism on Cu(111) Electrodes Modified with Perfluorinated Sulfonic Acid Sodium for CO₂RR Tsong-Han Tsai, National Taiwan Normal University
SAT-PA-025 P01-0027	Using Mesoporous Graphene Oxide Nanoparticles in combination with a microarray for Surface-Assisted Laser Desorption/Ionization detection of drug abuse Qi-Xun Tang, Hong-Po Chen, National Taiwan Normal University
SAT-PA-026 P01-0028	Synthesis and Characteristics of a Novel Zincophosphite Framework Sin-Ying Wu, Shin-Yu Fan, National Taiwan Ocean University
SAT-PA-027 P01-0029	Study on the Synthesis, Structure, and Properties of Zinc Metal, Phosphoric Acid, and Phosphorous Acid in Metal-Organic Frameworks Ren-Hao Liu, Soochow University
SAT-PA-028 P01-0030	Zinc complexes bearing quinazolinone-derived NO-type ligands applied in ring-opening polymerization of L-lactide Chi-Tien Chen, National Chung Hsing University
SAT-PA-029 P01-0031	Elucidating Nitrite Reduction on the Bioinspired Copper(II) Complexes with Thiol Derivatives Naorem James Meitei, Kaohsiung Medical University
SAT-PA-030 P01-0032	Growth Mechanism of NiO Intercalated Muscovite Bo-Sheng Chen, National Tsing Hua University; Wei-En Ke, Cheng-En Liu, Chang-Yang Kuo, Chih-Yen Chen, National Yang Ming Chiao Tung University; Chih-Huang Lai, National Tsing Hua University; Heng-Jui Liu, National Chung Hsing University; Ying-Hao Chu, National Tsing Hua University

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無機化學 (Inorganic Chemistry)

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SAT-PA-031 P01-0033	Chelating Arm Length Impacts Geometry and Spin-state in Unsymmetrical β-Diketiminato Nickel(II) Complexes Shien-Yang Tzu, Kaohsiung Medical University
SAT-PA-032 P01-0034	Synthesis, structural identification and dye degradation of novel cobalt zeolitic imidazolate framework Hsiao-Jou Lei, National Chi Nan University
SAT-PA-033 P01-0035	A Zn(II) Metal-Organic Framework Based on Diketopyrrolopyrrole for Fluorescent Sensing of Caffeic Acid Ying-Hua He, National Chi Nan University
SAT-PA-034 P01-0036	Coinage metal-inserted (Cu, Ag) polynuclear group 6 metal (Mo, W) carbonyl telluride clusters: syntheses, structural transformations, and low-energy-gap characteristics Yu-Hao Yang, National Taiwan Normal University
SAT-PA-035 P01-0037	[EFe₃(CO)₉]²⁻ (E = Te, Se)-incorporated, <i>o</i>-DCB- and <i>m</i>-DCB-connected Cu polymers: Mechanochemical syntheses, selective adsorption of organic molecules, and semiconducting properties Tse-Kai Chen, National Taiwan Normal University
SAT-PA-036 P01-0038	Two-Dimensional Coordination Layer of Diketopyrrolopyrrole (DPP) Derived Dicarboxylate Ligand: Synthesis, Structure, and Electrochemical Sensing Wei-Chen Fu, Che Ouyang, Wei-Chen Chang, National Chi Nan University
SAT-PA-037 P01-0039	Amino-Boryloxy Aluminium Complexes Synthesis and their Catalytic Activity for Ring-Opening Polymerization Yen-Tung Li, Providence University
SAT-PA-038 P01-0040	Dynamic Covalent Imine and Aluminum(III) Synergy to Develop Molecular Diversity En-Chuan Zhang, National Dong Hwa University; Hong-Feng Zhu, Kaohsiung Medical University
SAT-PA-039 P01-0041	Optimizing Hirao Coupling: An Efficient Pd Precatalyst Approach Wei-Jung Feng, Yung-De Tsai, Yi-Jie Tsai, Pei-Yu Tian, Providence University
SAT-PA-040 P01-0042	Spatial Confinement Enhancement of Copper-Aluminum Alloys inside the Carbon Nanofiber for Carbon Dioxide Reduction Reaction Kang-Shun Peng, National Yang Ming Chiao Tung University
SAT-PA-041 P01-0043	Predicting the HOMO-LUMO Gap of Transition Metal Complexes Using Low-Dimensional Information by TM-SchNET Model Sheng-Hsuan Hung, Zong-Rong Ye, Berlin Chen, Ming-Kang Tsai, National Taiwan Normal University
SAT-PA-042 P01-0044	Europium-containing nanocomposite double-network hydrogels for luminescence-based sensing applications Pin-Han Zeng, Yi-Cheun Yeh, National Taiwan University
SAT-PA-043 P01-0045	Fabrication of Tailored Luminescent Nanocomposite Hydrogels: A Study of Polydextran and Hydroxyapatite Using Tunable Metal-Ligand Coordination for Crosslinking Yu-Chia Su, National Taiwan University
SAT-PA-044 P01-0046	Hydrothermal Synthesis of Rice Ball shaped α-MnO₂ Nanocomposites on Carbon Nanotubes Ju-Kuang Tsai, National Chung Hsing University
SAT-PA-045 P01-0048	Modified Ni-Pt and BiNi-Pt electrodes: preparation, characterization, DSSC application Chen-Kai Hsieh, Providence University

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SAT-PA-046 P01-0049	Dispersed Ru single atoms on rare earth oxides catalysts for ammonia decomposition reaction Shih-Yu Yuan, National Yang Ming Chiao Tung University
SAT-PA-047 P01-0050	Hydrogen evolution on the Bioinspired Isocyanide adducts of [Cp₂Fe₂(SEt)₂] complexes Shih-Yen Sun, Kaohsiung Medical University
SAT-PA-048 P01-0051	DFT study on the Catalytic Reaction Prompted by TpRu-Mediated Intramolecular Transformation of Terminal Acetylenes and Amines Huai-Chih Chang, Chen-Kai Hsieh, Providence University; Wen-Lin Huang, Yi-Hsing Lo, University of Taipei
SAT-PA-049 P01-0052	Voltammetric and electrochemical impedance spectroscopic study on functionalized electrodes for photovoltaic applications Cian-Yu Huang, Providence University
SAT-PA-050 P01-0053	Mn(II), Fe(II), Co(II), Ni(II) and Cu(II)-based Porous Molecular Magnets Yu-Jun Deng, Tunghai University
SAT-PA-051 P01-0054	Vanadate-Co(II), Mn(II) Coordination Polymers From 5-(4-pyridyl)-pyrimidine: Syntheses, Crystal Structures and Properties Syuan-Yun Jian, Tunghai University
SAT-PA-052 P01-0055	Using derivatives of 4-(2-pyridinyl)pyrimidine to prepare one-dimensional coordination polymers of Co(II) Wan-Chi Yang, Tunghai University
SAT-PA-053 P01-0056	Effective Improvement the Device Efficiency by Two Dimensional Metal Organic Framework Doped Znic Oxide Electron Transport Layer for Organic Photovoltaics Wen Ling Kan, Xiao-Yuan Lin, Fu Jen Catholic University; Chih-Ping Chen, Ming Chi University of Technology
SAT-PA-054 P01-0057	Advancements in Nanomaterials: From Chiral Geometries to Core-Shell Bimetallic Nanocrystals Chun Wen Lin, National Yang Ming Chiao Tung University
SAT-PA-055 P01-0058	Synthesis and Characterization of Novel Magnetic Framework Fe₃O₄-MOF Composites Materials Hui-Tzu Ni, Kuan-An Chi, Yuan-Hsiang Yu, Fu Jen Catholic University
SAT-PA-056 P01-0059	Engineering Rhombic Dodecahedral Trimetallic Nanocrystals for Enhanced CO₂ Reduction to Multi-Carbon Product Pei-En Wang, National Yang Ming Chiao Tung University
SAT-PA-057 P01-0060	Novel Indium(III)/Sodium(I) Heterodinuclear Complexes: Effective Catalysts for CO₂-Copolymerization with Cyclohexene Oxide Guan Lin Liu, National Chung Hsing University
SAT-PA-058 P01-0061	The self-assembly of Co(II) and Ni(II)-based two-dimensional coordination polymers from combinatorial of endo and exodenate of 4,4'-bipyrimidine You-Hao Xiao, Tunghai University
SAT-PA-059 P01-0062	Synthesis And Characterization Of Low-Coordination Late-Transition Metal Complexes Yu-Hsuan Chen, National Cheng Kung University
SAT-PA-060 P01-0063	Synthesis and Reactivity of Side-on Ni(III)-peroxo Complexes Che-Wei Chen, National Cheng Kung University

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SAT-PA-061 P01-0064	Catalytic Reduction of 4-Nitrophenol Using Macrocyclic Metal Complexes Ming-Cheng Liu, Yu-Chung Hu, Wun-Shiuan Wang, Fu Jen Catholic University
SAT-PA-062 P01-0065	Activation and Functionalization of Diazene Using Dinuclear Iron Hydrogen Complex Kuan Po Yu, National Yang Ming Chiao Tung University
SAT-PA-063 P01-0066	Synthesis and structure of one-dimensional copper(II) coordination polymer containing hexafluorosilicate Zhen-Hong Lin, Tunghai University
SAT-PA-064 P01-0067	Porous Co-Mn Oxide Synthesized via Solid-state (Acidic) Redox Reaction Yanita Devi, National Sun Yat-sen university
SAT-PA-065 P01-0068	Bilayer Stacking of Metal Oxide Thin Film Using Biphasic Deposition Method Wanye Chen, Virgilio D. Ebajo, Jr., Nation Sun Yat-sen university
SAT-PA-066 P01-0069	Synthesis of dyes with photochromic properties and their application in dye sensitized solar cells Chao-Shian Wang, Chun-Guey Wu, National Central University
SAT-PA-067 P01-0070	Synthesis of D-A Type Conjugated Polymer for Inverted Perovskite Solar Cell Electron Transport Layer Wun-Yu Chen, Chun-Guey Wu, National Central University
SAT-PA-068 P01-0071	Preparation of High-quality Perovskite Films and Discussion of their Optoelectronic Properties Tsung-Yu Tsai, National Central University
SAT-PA-069 P01-0072	Inverted Tin Perovskite Solar Cell Using Cu²⁺ doped SnCo₂O₄ as the Hole Transport Material Yan-Hui Wang, Chun-Guey Wu, National Central University
SAT-PA-070 P01-0073	Developing green solvents for tin perovskite precursor solution Xiang-Wei Li, Chun-Guey Wu, National Central University
SAT-PA-071 P01-0074	Revealed Rapid Disorder to Crystalline Transition of Metal-Organic Frameworks through Evaluation of Uncoordinated Linker Changing Trend Yi-Zhen Jiang, National Taiwan Normal University
SAT-PA-072 P01-0075	Engineering CuRu Nanocatalysts towards Electrocatalytic CO₂ Reduction Reaction Yun-Yun Tsai, National Yang Ming Chiao Tung University
SAT-PA-073 P01-0076	Bioinspired Photoredox Oxidation of Alcohols with Copper-Containing Galactose Oxidase Analog Chih-Hui Chou, Chien-Wei Chiang, Yi-Hsien Chou, Hung-Chi Chen, Hung-Li Li, Yu-Hao Liu, Soochow University
SAT-PA-074 P01-0077	Chromium Cluster Luminescence: Advancing Near-Infrared Light-Emitting Diode Design for Next-Generation Broadband Compact Light Sources Ming-Hsuan Huang, National Taiwan University
SAT-PA-075 P01-0078	Synthesis and Characterization of Cu¹¹ Cage Protected by the Adamantyl Dithiophosphate Ligands Navya Indla, National Dong Hwa University

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無機化學 (Inorganic Chemistry)

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SAT-PA-076 P01-0079	Development of Gold-Palladium Bimetallic Nanoparticles by Asymmetric Bis-N-heterocyclic Carbenes Po-sen Huang, Kaohsiung Medical University
SAT-PA-077 P01-0080	Alcohol Oxidation and Aryl halide Reduction: A Valuable Pd Precatalyst Strategy Jia-Jun Wu, Guan-Hong Chen, Providence University
SAT-PA-078 P01-0081	Shape-controlled Gold Nanocrystals for the Surface-Enhanced Raman Scattering Application Tzu Wei Tsai, National Taipei University of Technology
SAT-PA-079 P01-0082	Geometry and Electronic Structure Studies by Powder X-ray Diffraction and X-ray Absorption Spectroscopy on Two Fe Complexes Chelated by Fluorescence Ligand Bei-Yi Wu, National Taipei University of Technology; Bao-Hao Chen, Yu-Chun Chuang, Jin-Ming Chen, Chih-Wen Pao, Jeng-Lung Chen, National Synchrotron Radiation Research Center; I-Jui Hsu, National Taipei University of Technology
SAT-PA-080 P01-0083	Structure and physical properties of $[\text{Fe}^{\text{II}}(2\text{BTPCl})_2(\text{bpea})]_n[(\text{ClO}_4)_2]_n$ Yu-Yu Chang, National Taipei University of Technology; Bao-Hao Chen, Yu-Chun Chuang, Jin-Ming Chen, Jeng-Lung Chen; I-Jui Hsu, National Synchrotron Radiation Research Center
SAT-PA-081 P01-0084	Application of defects in Two-Dimensional Hybrid Organic-Inorganic Perovskites Shi-Yao Huang, Hsin-Fu Lai, National Taiwan Normal University
SAT-PA-082 P01-0084	δ-MnO₂ Nanocomposite Cathodes for Aqueous Mg-Ion Batteries Yi-Ru Tsai, Yu-Ting Huang, Jeng-Yu Lin, Tunghai University
SAT-PA-083 P01-0086	Temporal Probing CO₂ and H₂ uptake on Pd/Ca(OH)₂ structures to understand CO₂ hydrogenation kinetics Ren-Shiang Tsai, National Yang Ming Chiao Tung University
SAT-PA-084 P01-0087	Amplification of oxidative stress by lipid surface-coated single-atom Au nanozymes for oral cancer photodynamic therapy Guan-Tsz Huang, National Taipei University of Technology; Ming-Hsien Chan, Academia Sinica; Bo-Gu Chen, National Taiwan University; Chien-Hsiu Li, Academia Sinica; Wen-Tse Huang, Ting-Yi Su, National Taiwan University; Lichang Yin, Chinese Academy of Sciences, Michael Hsiao, Academia Sinica; Chao-Chin Su, National Taipei University of Technology
SAT-PA-085 P01-0090	Cyclometalated Platinum Complexes Containing Iptycenylnaphthazarine Ligand: Synthesis, Characterization and Computational Studies Jia-Huang Chen, National Dong Hwa University
SAT-PA-086 P01-0091	Structure determination from powder x-ray diffraction on 2-(2-(3-((5-(pyridin-2-yl)-1H-tetrazol-1-yl)methyl)benzyl)-2H-tetrazol-5-yl)pyridine and its related complexes Kuan-Lin Chen, National Taipei University of Technology; Bao-Hao Chen, Yu-Chun Chuang, Shu-Chih Haw, Chih-Wen Pao, Jeng-Lung Chen, National Synchrotron Radiation Research Center; I-Jui Hsu, National Taipei University of Technology
SAT-PA-087 P01-0094	CO₂ Reduction to Formic Acid Facilitated by the Amphoteric Defect in UiO-67 via an Acid Etching Process: A Theoretical Discovery Chien-Chang Ku, Meng-Chi Hsieh, National Taiwan Normal University

March 30, 2024 (SAT)

13:00-14:30	物理化學 (Physical Chemistry)	體育館 7F
SAT-PB-001 P02-0001	Why does para-amino group make green fluorescent protein chromophore non-fluorescent? Kuansen Sung, Yi-Hui Chen, National Cheng Kung University	
SAT-PB-002 P02-0002	Towards Functionalization of Extracellular Vesicle with Single-Walled Carbon Nanotubes for Long-Term Imaging Marco Raabe, Academia Sinica	
SAT-PB-003 P02-0003	Electroactive membrane fusion-liposome for increased electron transfer to enhance radiodynamic therapy Ying-Chi Chen, National Cheng Kung University	
SAT-PB-004 P02-0004	The Decompositions of Fluorescent Defects and Pristine Structure in (6,5) Carbon Nanotubes Using Various Oxidants Yen-Hsuan Lin, Academia Sinica	
SAT-PB-005 P02-0005	MR T1/T2 and CT Imaging Strategies using Gadolinium-Engineered Magnetic Alloy Nanoparticles Shang-Wei Chou, Pi-Tai Chou, Ya-Yun Yang, Ching-Yen Lin, National Taiwan University	
SAT-PB-006 P02-0006	How does molecular packing influence the photochromicity of hydrazone derivatives in solid state? Bryan Po-Wen Chen, Academia Sinica	
SAT-PB-007 P02-0008	Liquid-liquid phase separation in complex emulsion driven by photoinduced Marangoni flow Chun-Yu Huang, Rakesh Narani, National Dong Hwa University	
SAT-PB-008 P02-0009	A Computational Study of the Electron Detachment Energies of the ScO_3^- Anion Yung-Ching Chou, University of Taipei	
SAT-PB-009 P02-0010	Study on Stability of CsPbBr_3 Perovskite Nanowires at Different Light Wavelengths Sheng-Han Cheng, National Sun Yat-sen University	
SAT-PB-010 P02-0011	Modification and Regeneration of Agricultural Waste for Wastewater Dye Removal Yu-Chieh Hsu, National Sun Yat-sen University	
SAT-PB-011 P02-0012	Bifurcation modeling of striation formation in plasma Szetsen Lee, Chung Yuan Christian University; Jr-Wein Peng, Industrial Technology Research Institute	
SAT-PB-012 P02-0013	Battery Performance Amelioration by Introducing Conductive Mixed Electrolyte in Rechargeable Mg-O_2 Batteries Vasantan Rasupillai Dharmaraj, National Taipei University of Technology	
SAT-PB-013 P02-0014	Enhancement of the visible light induced oxidase-like activity of gold nanoclusters by Ce^{3+} ions Chung-Siang Teng, Fu Jen Catholic University	
SAT-PB-014 P02-0015	Enantioselective Control of Chiral Crystallization in Sodium Chlorate Solution with Gold Nanoparticles via Circularly Polarized Laser Beams Hao-Tse Su, National Yang Ming Chiao Tung University; Hiromasa Niinomi, Tohoku University; An-Chieh Cheng, Christophe Pin, Yoshito Tanaka, Keiji Sasaki, Hokkaido University; Teruki Sugiyama National Yang Ming Chiao Tung University	
SAT-PB-015 P02-0016	Understanding gold nanoparticles decorated on silica as oxidase mimics and application of the light-enhanced oxidase-like activity for detection of acetylcholinesterase Yu-Hsuan Huang, I-Hsuan Li, Tien-Hao Hsieh, Zhi-Wen Chen, Hsiang-Chun Tsao, Fu Jen Catholic University	
SAT-PB-016 P02-0017	Theoretical study of the photoelectron spectra of 2-butynoic acid and but-1-en-3-yne Han-Yu Wang, Po-Cheng Chen, National Taichung University of Education	
SAT-PB-017 P02-0018	A DFT Study of Gas Sensing the Toxic Gases on the Pristine and N-doped WO_3 Wei-Chun Hsu, Chen-Hao Yeh, Feng Chia University	

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物理化學 (Physical Chemistry)

體育館 7F

SAT-PB-018 P02-0019	Sensing of Volatile Organic Compounds (VOCs) on Ti3C2Tx MXenes Monolayers by First-principle Calculations Chun-Yu Chang, Feng Chia University
SAT-PB-019 P02-0021	Exploring the Origin and Adulteration of Honey Using the Etching Effect of Silver Nanoparticles and Colorimetric Methods Li-Yi Huang, Cheng-Liang Huang, Hung-Yu Pan, Wei-Chun Chao, Bo-Zhi Lin, Ying-Hsin Chen, National Chiayi University
SAT-PB-020 P02-0022	Spectral studies of the reaction of the Criegee intermediate methyl vinyl ketone oxide with HC(O)OH using a step-scan time-resolved Fourier-transform infrared absorption spectrometer. Ju Yin Hsu, Yu-Lun Hsiao, National Yang Ming Chiao Tung University
SAT-PB-021 P02-0023	Theoretical study of the photoelectron spectra of 2-butynoyl fluoride and 2-butyne Jiun-Hua Lin, Yu-Xun Chen, Jia-Lin Chang, National Taichung University of Education
SAT-PB-022 P02-0024	Theoretical study of the photoelectron spectra of 1,3-pentadiyne and hexa-1,5-diyne-3-ene Shih-Wei Liu, Ping-Jung Li, Yi-Ru Chen, National Taichung University of Education
SAT-PB-023 P02-0025	Amyloid Fibril Formation in Myoglobin with Different Heme Binding Affinity via Optical Trapping Yu-Tung Cheng, Teruki Sugiyama, National Yang Ming Chiao Tung University; Shun Hirota, Tsuyoshi Mashima, Nara Institute of Science and Technology; Tien Chen, National Yang Ming Chiao Tung University; Takahiro Sakai, Nara Institute of Science and Technology
SAT-PB-024 P02-0026	Investigation of CH4 Catalytic Decomposition on High-Entropy Alloy TiVZrNb(111) Surface using DFT Chia Ying Wu, Chen-Hao Yeh, Feng Chia University
SAT-PB-025 P02-0027	DFT Study of the HfTeS4/PtSe2 van der Waal Heterostructure of Two-Dimensional Materials for Photocatalytic Water Splitting Tzu-Hsien Chen, Feng Chia University
SAT-PB-026 P02-0028	Mei5-Sae3 Stabilizes Small Dmc1 Oligomers for Efficient Dmc1 Assembly on RPA-Coated Single-Stranded DNA Chin-Dian Wei, Hao-Yen Chang, Chia-Hua Lu, Chih-Chun Chang, National Taiwan University; Asako Furukohri, Akira Shinohara, Osaka University; Peter Chi, National Taiwan University
SAT-PB-027 P02-0029	Temperature Effect of the Criegee Intermediate Reaction with Water Vapor Kai-Yan Chen, National Chung Cheng University; Yen-Ju Wu, Academia Sinica
SAT-PB-028 P02-0030	Effects of Additives on Solvation Structure and Redox Stability: A First-Principles Molecular Dynamics Study Zhen-Wei Xu, Santhanamoorthi Nachimuthu, Jyh-Chiang Jiang, National Taiwan University of Science and Technology
SAT-PB-029 P02-0031	Creating Fluorescent Defects in Single-Walled Carbon Nanotubes by Sonochemistry Han-Sheng Sun, Academia Sinica
SAT-PB-030 P02-0032	Roles of Metal Ions in the Preparations of Coordination Polymers Constructed from Bis-pyridyl-bis-amide and Tetracarboxylic Acid Yi-Lin Shen, Chung Yuan Christian University
SAT-PB-031 P02-0034	Variable Temperature Time Resolved EIS and NMR Investigation of Methanol Crossover in Perfluorinated Sulfonic Proton Exchange Membrane Nafion117 June-Hong Chen, Sun Yat-sen University

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物理化學 (Physical Chemistry)

體育館 7F

SAT-PB-032 P02-0035	Understanding the NMC Destruction Mechanism and Designing Novel Localized High-Concentration Electrolytes in Lithium-Metal Batteries: A First-Principle Molecular Dynamics Simulation Study Zhong-Lun Li, Liang-Ting Wu, National Taiwan University of Science and Technology
SAT-PB-033 P02-0036	Laser-Induced Enantioselective Control in Chiral Crystallization of Ethylenediamine Sulfate Modulated by Gold Nanoparticles Hsu-Liang Huang, Hao-Tse Su, National Yang Ming Chiao Tung University
SAT-PB-034 P02-0037	Probing Photocatalytic Reduction Pathways of CO₂ by Catalyst PbBiO₂Br Using Raman Spectroscopy Kang-Yu Hsiao, Fu-Yu Liu, National Tsing Hua University; Chiing-Chang Chen, National Taichung University of Education
SAT-PB-035 P02-0038	Edge Morphology Control on the Topological Structures and Magnetic Properties of Chiral Graphene Nanoribbons Zi-Xuan Tang, Jung-Yin Hsiao, National Taiwan Normal University
SAT-PB-036 P02-0039	Magnetic Properties and Band Structures of Edge Oxidized Chiral Graphene Nanoribbons Jung-Yin Hsiao, Zi-Xuan Tang, National Taiwan Normal University
SAT-PB-037 P02-0040	Two-dimensional PdS_nSe_{2-n}/PdPSe van der Waal Heterostructures as Potential Candidates for Overall Photocatalytic Water Splitting Reaction: A DFT study Jia-Yi Lin, Chen-Hao Yeh, Feng Chia University
SAT-PB-038 P02-0041	Chemical kinetics of the sulfate radical (SO₄⁻) upon ultraviolet photolysis of persulfate (S₂O₈²⁻) aqueous solution Ze-Min Lin, Pin-Chun Huang, National Tsing Hua University
SAT-PB-039 P02-0042	Two-dimensional GaSe/ZrTeS₄ vdW Heterostructures for Photocatalytic Water Splitting: A DFT Study Yi-lin Lu, Chen-Hao Yeh, Feng Chia University
SAT-PB-040 P02-0043	In situ and Real-time Vibrational Spectroscopic Characterizations of the Photodegradation of Nitrite in the Presence of Methanediol Chun-Yao Hou, Chiao-Mi Cheng, Cheng-Zong Lu, Yuan-Jyun Jhao, Li-Kang Chu, National Tsing Hua University
SAT-PB-041 P02-0044	Theoretical study of the photoelectron spectra of methyl isocyanide, 2-butynol, and propynal Ruei-Tang Huang, Chih-Hsien Yao, Chieh-En Hsieh, National Taichung University of Education
SAT-PB-042 P02-0045	DFT Investigations of Li Intercalation in Polycyclic Aromatic Hydrocarbons for Li-ion Battery Electrodes Sih-Ling Hsu, Chi-You Liu, Elise Y. Li, National Taiwan Normal University; Yu-Sheng Su, National Yang Ming Chiao Tung University
SAT-PB-043 P02-0046	Chemically Controlled Magnetic Phase Transition in 1D Covalent Organic Framework Ying-Xin Li, National Taiwan Normal University
SAT-PB-044 P02-0047	Functional Group Effects on the Structural and Electronic Characteristics of Carbon Atom Wires Yueh-Ting Chen, National Taiwan Normal University
SAT-PB-045 P02-0048	Promotion of CO₂ Hydrate Nucleation by Magnesium Surfaces: A Molecular Dynamics Study Chia-Wei Chang, Academia Sinica/National Taiwan University

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物理化學 (Physical Chemistry)

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SAT-PB-046 P02-0049	Study Dye-induced Icosahedral Sliver Nanoparticle Aggregation Using Time-dependent Surface-Enhanced Raman Spectroscopy Ching Hsu Chiang, Cheng-Liang Huang, Hung-Yu Pan, Chih-an Hsieh, Yu-Jing Huang, National Chiayi University
SAT-PB-047 P02-0050	Vibrational Structures of Crystalline Bismuth Telluroiodide BiTeI Investigated Using Temperature-Dependent Raman Spectroscopy Fu-Yu Liu, National Tsing Hua University
SAT-PB-048 P02-0051	DFT and Microkinetic Studies on CO₂ Capture in Diamine-Appended Grafted Mg₂(dobpdc) Metal-Organic Frameworks MaoSheng Su, Santhanamoorthi Nachimuthu, Jyh-Chiang Jiang, National Taiwan University of Science and Technology
SAT-PB-049 P02-0052	A First-Principles Study on Lithium Ion Diffusivity in Composite Solid Electrolyte Based on Li₆PS₅Cl/PCL for All-solid-state Lithium-ion Batteries Hao-Wen Chang, Santhanamoorthi Nachimuthu, Jyh-Chiang Jiang, National Taiwan University of Science and Technology
SAT-PB-050 P02-0053	Structural investigation of phytic acid-mediated guanosine monophosphate-based self-assembly Yu-Sheng Yen, Hirotsugu Hiramatsu, National Yang Ming Chiao Tung University; Wei-Tsung Chuang, Orion Shih, National Synchrotron Radiation Research Center
SAT-PB-051 P02-0054	Preparation of cyclodextrin-reduced graphene oxide electrode for the detection of muscle relaxant rocuronium bromide Chia-Chen Lu, Providence University
SAT-PB-052 P02-0055	Deep Learning Potential for Structural Transformations in Layered Double Hydroxide Po-Yi Lee, Academia Sinica/National Taiwan University
SAT-PB-053 P02-0056	Terbium metal-organic frameworks with high water-stability for fluorimetric sensing of heparin and pesticides Ting-En Lin, Rong-Chang Jiang, Fu Jen Catholic University
SAT-PB-054 P02-0057	Spectroscopic Analysis on Temporal Changes in HEWL Concentration and Anisotropy Induced by Optical Trapping Tien Chen, National Yang Ming Chiao Tung University; Shuichi Toyouchi, Osaka Metropolitan University; Hirotsugu Hiramatsu, National Yang Ming Chiao Tung University
SAT-PB-055 P02-0058	Exploring the Influence of Additives on Interfacial Reactions and SEI Formation on the Li metal/Cu surface: A DFT and AIMD Study Yu-Sheng She, Santhanamoorthi Nachimuthu, Jyh-Chiang Jiang, National Taiwan University of Science and Technology
SAT-PB-056 P02-0059	Plasmonic Trapping-Driven Pseudopolymorphism of L-Phenylalanine Using Well-Designed Gold Nanostructures Jie-Yin Liang, Wen-Chi Wang, National Yang Ming Chiao Tung University; An-Chieh Cheng, Keiji Sasaki, Hokkaido University
SAT-PB-057 P02-0060	Development of Injectable, pH- and Ultrasound-Responsive Dual-Network Nanocomposite Hydrogels for Enhanced Antibacterial Therapy Chen-Jie Yan, National Taiwan University
SAT-PB-058 P02-0061	Investigation of excited state relaxation of hemicyanine dye Xiang-He Yang, National Tsing Hua University
SAT-PB-059 P02-0062	Investigation of Triplet States of Rose Bengal by Step-Scan Time-Resolved Fourier-Transform Near-Infrared Spectroscopy Yu-Xiang Tsai, National Tsing Hua University

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分析化學 (Analytical Chemistry)

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SAT-PB-060 P02-0063	Anharmonic analysis of the $\tilde{A}^1\Pi_u$ state of the C_3 radical Hsing-Le Liu, National Central University
SAT-PB-061 P02-0064	A First-Principles molecular dynamics study on Li^+ solvation structures in THF/MTHF containing electrolytes for Lithium metal Batteries Chiu-Neng Su, Santhanamoorthi Nachimuthu, Jyh-Chiang Jiang, National Taiwan University of Science and Technology
SAT-PC-001 P03-0001	Dual-Functional Silver Nanoparticles for Colorimetric Detection of Cartap and Catalytic Degradation of Methyl Orange and Rhodamine B Wei-Yu Wang, National Taitung University
SAT-PC-002 P03-0002	Tannic acid decorated copper–gold bimetallic nanoparticles with high catalytic activity for the degradation of 4-nitrophenol and rhodamine B Cheng-Chih Liu, National Taitung University
SAT-PC-003 P03-0003	Hybrid Polymer Dot–Magnetic Nanoparticle Based Immunoassay for Dual-Mode Multiplexed Detection of Two Mycotoxins Yu-Han Syu, National Yang Ming Chiao Tung University
SAT-PC-004 P03-0004	Preparing a soft substrate for surface-enhanced Raman scattering sensing malachite green in living samples Hao Chang, National Changhua University of Education
SAT-PC-005 P03-0005	Rapid microwave-assisted procedures to reduce artificial deamidation during trypsin peptide mapping Yi-Feng Zheng, National Chung Hsing University
SAT-PC-006 P03-0006	A flash signal amplification approach for ultrasensitive and rapid detection of single nucleotide polymorphisms in tuberculosis Wei-Ting Chen, National Taiwan University
SAT-PC-007 P03-0007	SWATH-based comparative proteomic analysis of rice aroma mutants Cheng-Yu Kuo, Chang-Sheng Wang, National Chung Hsing University
SAT-PC-008 P03-0008	Discrimination of bean species, geographical origins and adulteration of soy sauce via volatile and proteomic signatures Wei-Chen Wang, National Chung Hsing University
SAT-PC-009 P03-0009	Enhancing the Characterization of Antibody Drug Conjugates Using Native Mass Spectrometry Ying-Ting Chiou, Yao-Zhe Zhang, National Cheng Kung University
SAT-PC-010 P03-0010	TIMAHAC: Streamlined Tandem IMAC-HILIC Workflow for Simultaneous and High-Throughput Analysis of Plant Phosphoproteomics and N-glycoproteomics Chin-Wen Chen, Chin-Wen Chen, Pei-Yi Lin, Ying-Mi Lai, Academia Sinica; Miao-Hsia Lin, National Taiwan University; Shu-Yu Lin, Chuan-Chih Hsu, Academia Sinica
SAT-PC-011 P03-0011	Fabrication of a sensor for detecting ammonia gas using β-$AgVO_3$ nanowires at room-temperature Jia-Jie Yang, Pi-Guey Su, Chinese Culture University
SAT-PC-012 P03-0012	Determination of Homocysteine in Human Plasma with a Silver Nanopaste-based Microfluidic Device Hsiang-Wei Chiu, Kuan-Han Chen, Jhong-Jheng Luo, Yun-Ting Hsiung, Soochow University; Xiu-An Ye, Fu Jen Catholic University; Wei-Lin Chiu, Hsiang-Tzu Lee, Wei-Ting Tseng, Yin-Yu Chou, Soochow University
SAT-PC-013 P03-0013	Study on ASTM D4629 and D5762 for Determination Nitrogen Content in Liquid Hydrocarbons Ling-Ling Ho, Jin-zhong Chen, Yi-Hui Chen, CPC Corporation, Taiwan

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SAT-PC-014 P03-0014	Simultaneous Determination of Six Sulphonamide Drugs in Meat Samples Using a Novel Semi-Automated In-Syringe Based Fast Sulphonamide drugs Extraction (Fa-SDs-Ex) Technique Coupled with UHPLC-PDA Kuan-Yi Li, Vinoth Kumar Ponnusamy, Kaohsiung Medical University	
SAT-PC-015 P03-0015	The Application of Student's t-Test: Comparison between Traditional and Microwave-assisted Pretreatments for the Detection of Titanium in Polymers Wei-Ting Chou, Ching-Fa Chi, Wei Sheng Ye, Yi-Hui Chen, Chyuan-Neng Liao, Chin-Chung Chen, CPC Corporation, Taiwan	
SAT-PC-016 P03-0016	Rapid and Convenient Detection of Cystine in Pharmaceutical Formulations by Screen-Printed Silver Electrode Yu-Tung Lin, Fang-Ci Kuo, Hwei-Yan Tsai, Chung Shan Medical University	
SAT-PC-017 P03-0017	Suspension Trapping-Based Sample Preparation Workflow for In-Depth Plant Phosphoproteomics Chuan-Chih Hsu, Chin-Wen Chen, Academia Sinica; Chia-Feng Tsai, Pacific Northwest National Laboratory; Miao-Hsia Lin, National Taiwan University; Shu-Yu Lin, Academia Sinica	
SAT-PC-018 P03-0018	Gasochromic tape-type sensor for sensing NH₃ gas Cheng-Ju Wei, Pi-Guey Su, Chinese Culture University	
SAT-PC-019 P03-0019	Development of water-resistant humidity sensing materials Ya Fang Lin, Pi-Guey Su, Chinese Culture University	
SAT-PC-020 P03-0020	Room temperature butane sensor Jia Rong Zhang, Pi Guey Su, Chinese Culture University	
SAT-PC-021 P03-0021	Orienting antibody on surface by CuAAC reaction and boronate formation to enhance biosensing sensitivity Siao-Yuan Gao, Lai-Kwan Chau, Huai-En Chang, Pei-Jhen Li, National Chung Cheng University	
SAT-PC-022 P03-0022	Fabrication of pyramid-textured flexible substrates coated with graphene/Ag nanoparticles for SERS applications En-Jing Lin, National Cheng Kung University	
SAT-PC-023 P03-0023	LC-UV Identification of Soluble Humins Formed Acid-catalytically from Mixture of Fructose and 5-HMF Teng-Jui Huang, CPC Corporation, Taiwan	
SAT-PC-024 P03-0024	Fiber Optic Nanogold-Linked Sorbent Assay (FONLISA) using aptamer for detection of vancomycin based on displacement reaction Hsin Lee, Yen-Ta Tseng, National Chung Cheng University	
SAT-PC-025 P03-0025	The Relationship between Glycoalkaloids and Bitterness in Sacha Inchi Nuts Studied by Liquid Chromatography-Tandem Mass Spectrometry Yu-Chi Lin, Chaoyang University of Technology	
SAT-PC-026 P03-0026	Evaluation of Antioxidant Activity of Carbonized Medicinal Materials Based on Chrysanthemum Herbal Powder for Eyes Disease Applications Hung-Wen Tsai, National Changhua University of Education; Chih-Ching Huang, National Taiwan Ocean University; Yang-Wei Lin, National Changhua University of Education	
SAT-PC-027 P03-0027	Silver nanoparticles capped by polydopamine as a sensitive probe for detecting cartap Feng Zuo Zhou, National Taitung University	

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SAT-PC-028 P03-0028	Electrochemical Biosensor for Detecting <i>S. aureus</i> Utilizing Exponential Rolling Circle Amplification Combined with Metal-Organic Frameworks Shang-Ren Yu, Yu-Ju Teng, Shan-Rong Wu, Chung Yuan Christian University
SAT-PC-029 P03-0029	Visual Biosensor Combining Rolling Circle Amplification and Lateral Flow Assay for the Detection of <i>Staphylococcus aureus</i> Yu Fen Huang, Yu-Ju Teng, Xin-Yu Yeh, Jia-In Weng, Chung Yuan Christian University
SAT-PC-030 P03-0030	Thermoplastic Microsphere-Assisted Foaming-Treated 3D-Printed Monolithic Packing for Enhanced Solid Phase Extraction of Trace Metals Yu-Hsuan Cheng, National Chung Hsing University
SAT-PC-031 P03-0031	Selecting Antifouling Peptide on the Maleimide-functionalized Surface for the Enhanced Exosome Sensing Platform Shu-Hong Lin, Chi-Chia Wang, National Taiwan University
SAT-PC-032 P03-0032	Fiber optic nanogold-linked sorbent assay for detection of SARS-CoV-2 Nucleocapsid Protein Tsung-Yi Yang, National Chung Cheng University
SAT-PC-033 P03-0033	Enhanced disulfiram treatment against colorectal cancer through a tumor microenvironment-responsive copper selenide nanoplatfom Hsiao-Chun Hung, Kai-Min Chan, Manoj Kandel, National Tsing Hua University
SAT-PC-034 P03-0034	Developing surface-enhanced Raman nanoprobes for simultaneous multiplex detection of human cardiovascular disease biomarkers on the EWOD platform An-Chih Chen, Lai-Kwan Chau, Shau-Chun Wang, National Chung Cheng University
SAT-PC-035 P03-0035	開發利用基於離子濃度極化的雙閘紙基分析裝置檢測尿蛋白 冠穎 劉, National Chung Cheng University
SAT-PC-036 P03-0036	Diffusion Behavior of Cargo in Imine-Based Covalent Organic Framework Studies by Time-of-Flight Secondary Ion Mass Spectrometry (ToF-SIMS) Wen-Yi Yu, National Taiwan University
SAT-PC-037 P03-0037	A Study of Composites between Thiol-substituted Porphyrins and Silver Nanoparticles as Surface-Enhanced Raman Scattering Substrate Li-Yu Chou, Tamkang University
SAT-PC-038 P03-0039	Investigating Intermediates in the Electrochemical Reduction of CO₂ on a Cu/Pd Bimetallic Catalyst through FTIR Spectroscopy Zi-Yin Huang, National Tsing Hua University
SAT-PC-039 P03-0040	Developing Short-Wave Infrared Circular Dichroism For Studies Of Carbon Nanotube Enantiomers Ai-Phuong Nguyen, Academia Sinica
SAT-PC-040 P03-0041	Analysis of Heavy Metals Using Porphyrin Decorated Hydrophobic Materials Coupled with MALDI-MS Measurement Hsin-You Tseng, He-Hsuan Hsiao, National Chung Hsing University
SAT-PC-041 P03-0042	Manganese ferrite magnetic nanoparticles functionalized with C18 for malachite green analysis using LDI-MS Chang-En Lee, He-Hsuan Hsiao, National Chung Hsing University
SAT-PC-042 P03-0043	Enhanced Dopamine Detection Sensitivity by Copolymerization of PEDOT-OH and PEDOT-COOH Coating on Pt/Ir Microelectrodes Tzu-Ying Chen, National Taiwan University; Yen-Yuan Chen, Yu-Wei Wu, Institute of Molecular Biology

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SAT-PC-043 P03-0044	Thermal contact-induced multicolor carbonized polymer dots Cheng-Yan Yeh, National Changhua University of Education
SAT-PC-044 P03-0045	Printed circuit board waste-derived carbon nanozyme for pyrophosphate sensing Kai-Yu Zheng, National Changhua University of Education
SAT-PC-045 P03-0046	Single Amino Acid Bionanozyme for Detection of Human Serum Albumin in Urine Siang-Yun Chiang, National Changhua University of Education
SAT-PC-046 P03-0047	Laser-induced iridium nanoparticle-decorated graphene with multi-enzyme activities Zheng-Ru Liu, National Changhua University of Education
SAT-PC-047 P03-0048	Highly sensitive determination of barbiturates in human fluids using ultrasound and surfactant-assisted dispersive liquid-liquid microextraction before poly(ethylene oxide)-mediated stacking in CE Cheng-Hao Zheng, Li-Hsin Tseng, Po-Chen Lin, Ming-Mu Hsieh, National Kaohsiung Normal University
SAT-PC-048 P03-0049	Single-particle tracking study of the interaction between HIV-1-derived TAT peptides and endosome-mimicking membranes Po-Shuo Chen, Shang-Yu Ye, National Yang Ming Chiao Tung University
SAT-PC-049 P03-0050	Peering into nanoscopic transient pores within the membrane of single lipid vesicles Dong-Min Li, Tai-You Chu, Chia-Hsuan Lee, Minh Thuy Vo, Hong-Png Chen, National Yang Ming Chiao Tung University
SAT-PC-050 P03-0051	Surface-engineered preparation of CuO/(Cu-S)_n MOF/RGO covered carbon printed disposable electrode for selective electrochemical quercetin detection in Shiraz wine and vegetable extracts Sethupathi Velmurugan, National Chi Nan University
SAT-PC-051 P03-0052	Graphite Degree of Carbon Material By X-ray Diffraction Yu-Chen Hsu, Yi-Hui Chen, Ching-Chung Chen, CPC Corporation, Taiwan
SAT-PC-052 P03-0053	Analysis of chondroitin sulfate degraded by chondroitinase ABC in a high salt culture medium using MALDI-TOF mass spectrometry You-Xuan Chang, Tamkang University
SAT-PC-053 P03-0054	Mechanism of TAT-facilitated endosomal escape – Insight from giant unilamellar vesicle studies Tai-You Chu, Hong-Ping Chen, Dong-Min Lee, Ian Liau, National Yang Ming Chiao Tung University
SAT-PC-054 P03-0055	A novel porphyrin-based magnetic covalent organic framework for sensitive and selective electrochemical detection of bisphenol A Lokesh Bettada, Tsung-Yuan Wu, National Chi Nan University
SAT-PC-055 P03-0056	Unraveling molecular insights with temperature-dependent Raman spectroscopy: Advancing precision storage condition of Wagyu beef Jia En Kao, National Yang Ming Chiao Tung University; Kohei Yokosawa, Takakazu Nakabayashi, Tohoku University
SAT-PC-056 P03-0057	Synthesis and Electrochemical Characterizations of Tantalum Doped LiNi_{0.9}Co_{0.1}O₂ Cathode Material Chun-Chieh Lan, Yu-Zhen Huang, Pin-Yu Huang, Chang-Hong Wu, Fu Jen Catholic University
SAT-PC-057 P03-0058	Synthesis and Electrochemical Characterizations of Boron doped LiNi_{0.85}Co_{0.10}Mn_{0.05}O₂ Zi-Yi Chang, Po-Hui Ho, Chun-Kuan Chou, Fu Jen Catholic University
SAT-PC-058 P03-0059	Electrochemical Determination of Nitrofurantoin Based on Porphyrins-Based Magnetic Covalent Organic Frameworks Cheng-Chih Chao, Lokesh Bettada, National Chi Nan University

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SAT-PC-059 P03-0060	Plasmon-enhanced fluorescence probes for selectively detecting heavy metal ions in water Jhong-Hao Liao, National Cheng Kung University	
SAT-PC-060 P03-0061	Screening small molecules with varying inhibitory effects on islet amyloid peptide aggregation using liquid crystal-based sensors Ting-Hui Li, National Taiwan Normal University	
SAT-PC-061 P03-0062	Application of Potentiometric-Scanning Ion Conductance Microscopy for Characterizing Surface Charges of 2D Materials and Living Cells Yi-Chen Wu, Chiao-Chen Chen, National Cheng Kung University	
SAT-PC-062 P03-0063	Gallic acid-modified copper nanoclusters/silver nanoparticles for the fluorescent and colorimetric dual-mode detection of streptomycin Po-Wei Huang, National Taitung University	
SAT-PC-063 P03-0064	Development of quantitative analysis method using liquid chromatography-tandem mass spectrometry for abuse drugs in wastewater Yu-Chun Liao, Yuan-Chih Chen, National Cheng Kung University	
SAT-PC-064 P03-0065	Investigation of New Psychoactive Substances (NPS), Other Illicit Drugs, and Drug-Related Compounds in a Taiwanese Wastewater Sample Using High-Resolution Mass-Spectrometry-Based Targeted and Suspect Screening Pei-Yun Hsu, Yuan-Chih Chen, National Cheng Kung University	
SAT-PC-065 P03-0066	A spatial filter for vertical flow method in Raman spectroscopy Yu-Sheng Chen, National Yang Ming Chiao Tung University	
SAT-PC-066 P03-0067	Identification of Xenobiotic Biotransformation Products Using Mass Spectrometry-Based Metabolomics Integrated with a Structural Elucidation Strategy by Assembling Fragment Signatures Yi-Chun Lin, Yuan-Chih Chen, National Cheng Kung University	
SAT-PC-067 P03-0068	Ultrasensitive determination of phenothiazines enantiomers in human fluids by capillary electrophoresis with contactless conductivity detection Xin-Yu Huang, Yi-Yang Sung, Ming-Mu Hsieh, National Kaohsiung Normal University	
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SAT-PD-001 P04-0001	Organocatalytic Enantioselective Construction of a Scaffold with Four Quaternary Stereocenters: Triple Cascade Triggered by Vinylogous Michael Addition of Arylidene Isoxazolinone and Arylidene Indandione Chia-Chin Liu, National Taiwan Normal University	
SAT-PD-002 P04-0002	Visible light-cleavable linker for SPPS Ya-Hsu Yang, Sun Yat-sen University	
SAT-PD-003 P04-0003	Synthesis of Staurosporine Aglycone Derivatives Ya-Fang Shih, National Sun Yat-sen University	
SAT-PD-004 P04-0004	Radical Aryl Migration: New Synthesis of GABA Drugs Yi-Xuan Chan, Pei-Ling Wang, Fu Jen Catholic University	
SAT-PD-005 P04-0005	Highly Selective Cations Detection based on Functionalised Pillar[5]arene Chromogenic and Fluorogenic Chemosensors Kai-Chi Chang, Chan-Yu Chen, Chun-Chi Shih, National Taiwan Ocean University	
SAT-PD-006 P04-0006	Synthesis of Isoindoline with a Quaternary Chiral Center via Asymmetric Synergistic Catalysis Jin-Yu Wang, National Sun Yat-sen University	

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SAT-PD-007 P04-0007	Phosphine-mediated double annulation via intramolecular Wittig strategy for construction of pyrrolofuranthridones Raghunath Maruti Walunj, National Taiwan Normal University
SAT-PD-008 P04-0009	Aggregation-Induced Emission Investigation of Bipyrazole[1,5-a]pyridines Bearing Polycyclic Aromatic Substituents JuYin Hsiao, Bing-Han Zhuang, National Taitung University; Pin-Zong Lai, Che-Jen Lin, National Dong Hwa University; Shun-Fa Wang, Jean-Ho Chu, National Taitung University
SAT-PD-009 P04-0010	The Ligand Effect of Iridium(III) Complex on C–N Bond Formation Liao Wei-Zhe, Yi-Sheng Chen, Tsun-Ren Chen, National Pingtung University; An-Chi Yeh, Cheng Shiu University
SAT-PD-010 P04-0011	Synthesis of Sulfonyl Compounds via Amine Catalysis and their Application as Highly Reactive Enone Precursors for Catalytic Wittig Reaction Pei-Shan Wu, Po-Chung Chien, Bo-Xuan Pan, You-Jie Chen, National Taiwan Normal University
SAT-PD-011 P04-0012	Sequential one-pot syntheses of acylated alkylidene indandiones and furo[2,3-f]dibenzotropones via MBH-type annulation/β-acylation and Wittig reaction You-Jie Chen, Po-Chung Chien, Ching-Fen Chang, National Taiwan Normal University
SAT-PD-012 P04-0013	Diversity-Oriented Synthesis of Spiropentadiene Indolines and Cyclopenta[b]indoles via Intramolecular Wittig Reaction/Acylation Yu-Hsuan Chen, Wey-Chyng Jeng, Chen-Ling Chang, Ru-Yin Yu, National Taiwan Normal University
SAT-PD-013 P04-0014	Novel Design of Arylsulfonylindoles to Construct Dihydrobenzofuran Scaffolds via Vinylogous Michael Additions/[4+1]-annulations Yen-Kai Chen, Pei-Shan Wu, Pei-Shan Wu, Chih-Yun Hsueh, National Taiwan Normal University
SAT-PD-014 P04-0015	Phosphine-catalyzed regioselective 1,7- and 1,4-Addition Reactions of 3-Homoacyl Coumarins to Vinyl alkynoates Cheng-Jun Shi, Ching-Wen Hsu, Xuan-Rui Huang, Yi-Jen Chen, Yi-Ru Chen, National Taiwan Normal University
SAT-PD-015 P04-0016	Organocatalytic Enantioselective Diversity-oriented Construction of Complex Spiro-pyrazolone Scaffolds Bearing Multiple Stereocenters Ganesh Shantaram Khomane, National Taiwan Normal University
SAT-PD-016 P04-0017	Dye- based Organic Sensor Containing Bis(2-((2-methoxyethyl)thio)ethyl)amino group applied for detection of silver ions in water Shu-Yu Chen, Chinese Culture University
SAT-PD-017 P04-0018	3,3-Dicarbo-Functionalized Azetidine: Merging Visible Light Catalysis with Strain Release Functionalization Chen-Kuei Shih, National Sun Yat-sen University
SAT-PD-018 P04-0019	Large-Amplitude Three-Stage Bidirectional Photomechanical Bending of an Organic Crystal Chuan-Jie Su, National Taiwan University
SAT-PD-019 P04-0020	Synthesis of Tetracyclopenta-Fused [5]Helicene via Anaerobic Photocyclization of Ortho-Dialkylamino Substituted Stiff-Stilbenes Yi-Ching Wang, Yi-Ning Hung, National Taiwan University
SAT-PD-020 P04-0021	Pentiptycene-Containing Cu₄Ag₄ Bimetallic Clusters: A Laser-Free, Highly Emissive Two-Photon Excited Emitter Chia-Chien Kao, National Taiwan University

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SAT-PD-021 P04-0022	Diversity-oriented Synthesis of Phosphonium ylides and β-Acylated chromen-one Arylidene Indandiones via Phosphine Reagent-Controlled reaction Durga Prasad Gurram, National Taiwan Normal University
SAT-PD-022 P04-0023	Visible light-mediated copper catalyzed regioselective diamination of terminal alkynes at room temperature: a facile synthesis of substituted imidazo[1,2-α]pyridines Mahima Gupta, National Tsing Hua University
SAT-PD-023 P04-0024	Synthesizing Multifunctional Block Copolymers for Complex Emulsion Sensors Ying-Yu Chen, Rakesh Narani, Po-Chun Chang, National Dong Hwa University, Hualien, Taiwan
SAT-PD-024 P04-0025	Diastereodivergent α-Homoallylation of Cyclic Enones Po-Chou Che, Pei-Yun You, Li-Yun Wu, Zhanyi Chin, Kuan-Hua Chiu, Song-Ting Hsieh, Yu-Wen Huang, National Tsing Hua University
SAT-PD-025 P04-0026	Synthesis of Cyclopentane-Fused Coumarin compounds and kinetic analysis of their photoclytic property Yi-Xian Li, Wei-Hao Wu, Chung Shan Medical University; Hsuan-Yu Lin, National Taiwan University
SAT-PD-026 P04-0027	Rapid Synthesis of Heterocycle Oxazolidinone Hybrid Molecules Nian-Xuan Lin, Kelly Lee, National Chung Hsing University
SAT-PD-027 P04-0028	Iron-Catalyzed Hydrogenation of Alkenes with NaBH₄ in Water Jia-Hao Yang, National Taipei University of Technology
SAT-PD-028 P04-0029	Nickel-Catalyzed Suzuki-Miyaura Coupling of Arylboronic Acids with Alkynyl Bromides in Water Yu-Chia Yu, National Taipei University of Technology
SAT-PD-029 P04-0030	Desymmetrization of Cyclohexadienones through Phase-Transfer-Catalyzed Stereoselective Intramolecular Aza-Michael Addition with Chiral Sulfinamide Nucleophiles Yu-Wei Chao, Cheng-Che Tsai, Tunghai University
SAT-PD-030 P04-0031	Temperature-Controlled Site-Selective C-S Bond Cleavage in Nickel-Catalyzed Reductive Cross-Coupling of Sulfonium Salts with Aryl Halides Yu-Hsuan Huang, National Sun Yat-sen University
SAT-PD-031 P04-0032	Asymmetric Norrish Type II Reaction for Synthesis of Alkenyl α-Stereogenic Esters Hung-Hsuan Chiu, Kuei-Chen Chang, National Sun Yat-sen University
SAT-PD-032 P04-0033	Visible Light-Driven Oxidative Spirolactonization of Hydroxyalkyl Furans within Confined Frameworks Hung-Yi Chiang, National Sun Yat-sen University
SAT-PD-033 P04-0034	Synthesis and photophysical properties study of amphiphilic disubstituted semi-perfluoroalkyl α-Cyanostilbene surfactants Hsin-Yu Hung, Po-Chun Chang, National Dong Hwa University
SAT-PD-034 P04-0035	Enhancing Sensing Capabilities of Green Fluorescent Protein Chromophores through Microwave-Assisted Synthesis and Functional Group Modification Yi-Chen Chang, Shih-Jie Ye, Zong-Zhe Han, National Dong Hwa University
SAT-PD-035 P04-0036	Synthetic Studies Toward the Total Syntheses of Cumbiasins Jyun-Sian Huang, National Health Research Institutes
SAT-PD-036 P04-0037	Synthesis of Furanonaphthoquinone Derivatives via Intramolecular Wittig Reactions with 2-Hydroxy 3((arylsulfonyl)alkyl)naphthalene 1,4-diones as Highly Reactive Alkyldene Precursors Guan-You Lin, Bo-Zhong Jian, You-Jie Chen, National Taiwan Normal University

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有機化學 (Organic Chemistry)

體育館 7F

SAT-PD-037 P04-0038	Hexamethyldisilazane-Mediated Cycloaddition of Aryl Methyl Ketones and Azides for the Synthesis of 4-Acyl-1,2,3-Triazoles Jia-Xin Lin, Chung Hsing University
SAT-PD-038 P04-0039	Blue LED-Induced Regioselective and Chemoselective Radical Cyclization of Unactivated 1,6-Enynes Chung-Wei Chang, Kaohsiung Medical University
SAT-PD-039 P04-0040	Synthesis of 2-Substituted Bicyclo[2.1.1]hexan-1-ols via Sml₂-Mediated Reductive Cyclization Reactions Chun-Fu Wu, Chih-Wei Hsu, National Taiwan University
SAT-PD-040 P04-0041	Green and Rapid Acid-Catalyzed Ynamide Skeletal Rearrangement and Stereospecific Functionalization with Anisole Derivatives Yun-Jou Wang, Kaohsiung Medical University
SAT-PD-041 P04-0042	Synthesis of 1-Substituted Bicyclo[2.1.1]hexan-2-ones via a Sequential Intramolecular Sml₂-Mediated Reductive Coupling and an Acid-Catalyzed Pinacol Rearrangement Reaction Yung-Chi Lee, Chun-Fu Wu, National Taiwan University
SAT-PD-042 P04-0043	Synthesis of N-Glycan Penta-saccharide Inner-core structures as a Precursor for Complex Type Bi-antennary N-Glycans Che Yang, National Tsing Hua University
SAT-PD-043 P04-0044	Synthesis of 1-Heteroatom Substituted [2.1.1]Bicyclohexan-5-one via Intramolecular Ketene [2+2] Cycloaddition Tzi-Chi Liu, Zih-Hao Lin, National Taiwan University
SAT-PD-044 P04-0045	Development of Methodology Towards the Introduction of γ-thiolactone in SPPS Wei-Ju Lo, Yuya A. Lin, National Sun Yat-sen University
SAT-PD-045 P04-0046	The synthesis and characterization of ammonium-containing polysulfide materials for application of Li-Sulfur battery Hsin-Chih Huang, National Sun Yat-sen University
SAT-PD-046 P04-0047	Electrochemical reduction of carbon dioxide by electropolymerized catalyst of triphenylamine-functionalised iron porphyrin Wen-Ching Yu, National Chung Hsing University
SAT-PD-047 P04-0048	Developing One-Pot Green Synthesis of Quinazoline Derivatives Yuping Huang, Yungtzung Huang, National University of Kaohsiung
SAT-PD-048 P04-0049	Synthesis of Tetra-Ethynyl Porphyrin for Defect Passivation of Perovskite Solar Cells Ming-You Li, National Chung Hsing University
SAT-PD-049 P04-0050	Photocatalytic production of silica nanoparticles by flow chemistry and the application in organodisulfide synthesis Yu-Hsuan Chang, National Yang Ming Chiao Tung University
SAT-PD-050 P04-0051	Development Regio- and Stereo-controlled Organocatalytic Vinylogous Michael Addition/cyclization Cascade of 2-Alkylidene 1,3-Indandiones with Benzylidenemalononitrile to 1,3-Indandione Derivatives I-Ting Chen, Hsuan Lin, National Chung Hsing University
SAT-PD-051 P04-0052	Organocatalytic Enantiodivergent Michael Addition/Cyclization Cascade of 4,4,4-trifluoroacetoacetate and 2,3-Dioxopyrrolidines Sih-Yuan Chen, National Chung Hsing University

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有機化學 (Organic Chemistry)

體育館 7F

SAT-PD-052 P04-0053	Synthesis of benzimidazole-fused perylene imide derivatives as Near-Infrared materials for optoelectronic applications Ting-Jun Jiang, Providence University
SAT-PD-053 P04-0054	The Development and Application of Asymmetric Organocatalyzed Cyclization Reaction of 1,3-Cyclohexanediones and 2,3-Dioxopyrrolidines Cheng-Yu Ou, National Chung Hsing University
SAT-PD-054 P04-0056	A Regioselectivity Switch between Enantioselective 1,2- and 1,4- Addition of cyclohexanone with 2,3-Dioxopyrrolidine Shao-En Chen, National Chung Hsing University
SAT-PD-055 P04-0057	Development and Research of Mechanoresponsive Platinum-containing Polymer Yi Tsung Lai, National Cheng Kung University
SAT-PD-056 P04-0058	Synthesis of Porphyrin Dimers and Trimers as Hole-Transporting Materials and the Effect on Perovskite Solar Cells Yu-Ning Chang, National Chung Hsing University
SAT-PD-057 P04-0059	Amide derivatives on electrochemical CO₂ reduction catalyzed by iron porphyrins Pei-Yu Lin, National Chung Hsing University
SAT-PD-058 P04-0060	The synthesis of amino acid-based cage molecules for fluoride recognition Chi-Chun Wu, National Cheng Kung University
SAT-PD-059 P04-0061	Electrophotocatalytic Amination of Tryptophan C(sp³)-H Bond for Its Bioconjugation Ci-Yang Sun, Soochow University
SAT-PD-060 P04-0062	Discovery of DYRK1 Inhibitors as Potential Treatment of pancreatic ductal adenocarcinoma (PDAC) Yu-Xiang Zhang-Jian, National Health Research Institutes
SAT-PD-061 P04-0064	Electrochemical-Cobalt Dual Catalysis for Oxygen Insertion and Reorganization of Indole Derivatives Chih-Ju chou, Soochow University
SAT-PD-062 P04-0065	Synthetic and cytotoxic studies on diaryl bearing compounds Po-Jui Huang, Li Ting Shen, Chin-Wei Hsu, Yi-Lun Lo, Kaohsiung Medical University; Kuan-Han Lee, Chianan University of Pharmacy and Science
SAT-PD-063 P04-0066	Preparation of Two Distinct Sulfonated Histidine Monomers and Initial Studies of Their Properties as a Solubilizing Tag I-Hsuan Liu, National Cheng Kung University
SAT-PD-064 P04-0067	Synthesis of Bis(biaryl)bipyrazolo[1,5-a]pyridines via C-H Bond Activation as Aggregation-Induced Emission Enhancement Luminogens Yi Hua Jiang, Bing-Han Zhuang, Pu-Yen Hsiao, National Taitung University; Che-Jen Lin, Pin-Zong Lai, National Dong Hwa University
SAT-PD-065 P04-0068	Synthesis, Photophysical Measurement, and Aggregation-Induced Emission Enhancement Investigation of Novel 3,7-Diarylpirazolo[1,5-a]pyridine Luminogens Binghan Zhuang, National Taitung University; Pin-Zong Lai, Che-Jen Lin, National Dong Hwa University
SAT-PD-066 P04-0069	Asymmetric Vinylogous 1,2/1,4-Addition of Allyl Aryl Ketones with Activated α, β-Unsaturated Ketones Xing-Chen Pan, National Chung Hsing University

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13:00-14:30	有機化學 (Organic Chemistry)	體育館 7F
SAT-PD-067 P04-0070	Switching the Optical Properties of CoumarinTriphenyliminophosphorane Fluorophores Through Redox Stimulation Wei-Chu Huang, Yi-Yin Lu, Hsuan-Yu Lin, Shiao-Chen Huang, Chung Shan Medical University	
SAT-PD-068 P04-0071	Pd-Catalyzed Cyclization of (Z)-(5-(2-bromophenyl)pent-3-en-1-yne Leading to Naphthalenes and Fluorenes Derivatives Cheng-Kai Hsu, National Taiwan University	
SAT-PD-069 P04-0072	Manipulations of Förster resonance energy transfer in nano-lasso [1]rotaxanes via adaptive conformational donor and spiropyran acceptor for white-light emissions and sensing applications Trung Thanh Nguyen, National Yang Ming Chiao Tung University	
SAT-PD-070 P04-0073	Synthesis, structure and correlative study of 4-Br-R_r-ZnX₂ Pinyu Liu, National Taipei University of Technology	
SAT-PD-071 P04-0074	Synthetic Studies for 9-Deoxytilivalline and Derivatives Wei-Xuan Kang, National Taiwan Normal University	
SAT-PD-072 P04-0075	Microwave-assisted Hydrogenation of Naphthazarine with Lawesson's Reagent Shi-Yu Chen, Jia-Huang Chen, Pin-Zong Lai, National Dong Hwa University	
SAT-PD-073 P04-0076	Versatile Synthesis of Symmetric and Unsymmetric Imines via Photoelectrochemical Catalysis: Application to N-Terminal Modification of Phenylalanine Ting-Jun Lin, Hung-Li Li, Soochow University	
SAT-PD-074 P04-0077	KOtBu-Mediated -Spiro-Annulation of Cyclic Vinyllogous Esters with Styrene Derivatives Chia-Chen Chien, National Yang Ming Chiao Tung University	
SAT-PD-075 P04-0078	Indirect Electrochemical-Induced Trifluoromethylation of Tryptophan Containing Oligopeptides Wan-Hsuan Shih, Hung-Chi Chen, Ciao-Ying Kao, Soochow University	
SAT-PD-076 P04-0079	Synthetic study of cycloamino alcohol C-H functionalization via ruthenium or iridium complex photon-oxidation Zhi-Hui Huang, National Chiayi University	
SAT-PD-077 P04-0055	Synthesis of Anthraquinone Derivatives via Rearrangement of Spiro-cyclohexene 1,3-Indandiones Jing-Huei Chen, Jeng-Liang Han, National Chung Hsing University	
March 30, 2024 (SAT)		
13:00-14:30	化學生物 (Chemical Biology)	體育館 7F
SAT-PE-001 P05-0001	Quantum signalling in TiO₂ nanocomposites for innovative photodynamic and photothermal therapies with magneto-electric effects for glioblastoma treatment. Yu-Sheng Lee, National Tsing Hua University	
SAT-PE-002 P05-0002	Cell-free Compartmentalized Synthesis of Membrane-associated Protein, PspA, Induces Shape Deformation of Cell-sized Liposomes Samuel Herianto, Academia Sinica/National Taiwan University	
SAT-PE-003 P05-0004	From droplet formation to fibril formation: unveiling the influence of phosphorylation in liquid-liquid phase separation Mohammadreza Allahyartorkaman, Yi-An Chen, Hsin-Yung Yen, Yung-Shu Kuan, Rita P-Y Chen, Academia Sinica	
SAT-PE-004 P05-0005	Enhanced inhibitory effect of intravesical therapy for bladder cancer by MMC-encapsulated mesoporous silica nanoparticles (MSN) Yu-Chen Fa, National Taiwan University	

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SAT-PE-005 P05-0006	Screening of yeast strains for high alcohol yield under high-density fermentation conditions Yu-Hong Chen, Tamkung University	
SAT-PE-006 P05-0007	Synthetic Mimics and Enzymatic Modifications of a Lasso Peptide Hsueh-Wei Chung, Chia-Yu Tsai, National Taiwan University	
SAT-PE-007 P05-0008	Research on the preparation of controlled release anti-mosquito microcapsules Guo-Ming Yang, Cheng Shiu University	
SAT-PE-008 P05-0009	Utilizing nitrene-alkyne cycloaddition for convenient multi-component assembly of protein degraders and biological probes Shiou-Ting Lin, National Taiwan University	
SAT-PE-009 P05-0010	Combined Gadolinium and Boron Neutron Capture Therapies for Eradication of Head-and-Neck Tumor using Gd¹⁰B₆ Nanoparticles under MRI/CT Image-guidance Shanmugam Munusamy, Naresh Kuthala, Chi-Shiun Chiang, National Tsing Hua University	
SAT-PE-010 P05-0011	Promoting the Folding of Collagen Heterotrimers by the Regulation of Lateral and Axial Cation-π Interactions Chih-Han Yang, Tsz-Ting Chen, Jia-Cherng Horng, National Tsing Hua University	
SAT-PE-011 P05-0012	Study of Disulfide-linked Peptides and Their Hybridization with Unfolded Collagen Peptides Howard Wu, Jia-Cherng Horng, National Tsing Hua University	
SAT-PE-012 P05-0013	Consequences of Incorporating Proline Derivatives into the C-Terminus of a Collagen Peptide Yi-Xian Wu, Jia-Cherng Horng, National Tsing Hua University	
SAT-PE-013 P05-0014	Design and Characterizations of Artificial Hydrolases Using Collagen Mimetic Peptides Based Scaffolds Yu-Shan Hsu, Jia-Cherng Horng, National Tsing Hua University	
SAT-PE-014 P05-0015	Conjugation of the Catalytic Dyad and Self-Assembling Fragments to Design Peptide-Based Hydrolases Yu-Fang You, Jia-Cherng Horng, National Tsing Hua University	
SAT-PE-015 P05-0016	Selective Coupling Reaction of Catechin and Norcantharidin to Prepare Functional Amphiphiles Yi-Ching Lee, Tzu-Pei Chen, Yan-Bin Huang, National Chiayi University	
SAT-PE-016 P05-0017	ROS-responsive camptothecin-linked thioketal drug delivery system based on ring-closing polymerization Jacob Mattew, Ru Hung, Trong-Nghia Le, Hoang-Phuc Pham, National Taiwan University of Science and Technology; Pawan Kumar, IISER Kolkata Department of Chemistry Polymer Research Center Mohanpur Campus; Cheng-Kang Lee, National Taiwan University of Science and Technology; Raja Shunmugam, IISER Kolkata Department of Chemistry Polymer Research Center Mohanpur Campus; Neralla Vijayakameswara Rao, National Taiwan University of Science and Technology	
SAT-PE-017 P05-0018	Investigating the possibility of modifying islet amyloid polypeptide as an antimicrobial peptide Pei-Ya Shan, National Taiwan Normal University	
SAT-PE-018 P05-0019	Controlling Decoration Functional Group to Synthesis Nature Asymmetric Human Milk Oligosaccharides Hsien-Wei Tseng, Hsin-Kai Tseng, Kai-Eng Ooi, Hung-Kai Wang, Cheng-En You, National Tsing Hua University	
SAT-PE-019 P05-0020	Boronic Acid Modified Magnetic Nanoparticles Are Used For Targeting Pathogenic LPS And Enrichment Yu-Xuan Chen, Yung-Hsin Huang, National Chung Hsing University	

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SAT-PE-020 P05-0021	DCBCI2203, a Novel Protein Degradator Targeting KRAS G12D/V Shih-Chieh Yen, Shih-Chieh Yen, Simon Shih-Hsien Chuang, Jun-Liang Lai, Development Center for Biotechnology; Keng-Chang Tsai, National Research Institute of Chinese Medicine; Ying-Shuan Lee, Yen-His Liu, Her-Sheng Lin, Hui-Jan Hsu, Po-Ting Chen, Yu-Shiang Lin, Kuan-Shuo Lin, Tsung-Hui Li, Development Center for Biotechnology	
SAT-PE-021 P05-0022	Synthesis A Versatile Glyco-Block Copolymer Using Reversible Addition-Fragmentation Chain Transfer Polymerization and Click Chemistry Enhances The Delivery of Enzymes and Drugs into MDA-MB-231 cells Hsin-Yung Huang, Tzu-Chien Wu, Chiao-Ling Lai, Govindan Sivakumar, National Chung Hsing University	
SAT-PE-022 P05-0023	Enhancing Whole-Cell Biosensor for Phenylethylamine Detection Using Logic Gates and Buffer Terminators Tsun-To Wang, National Taiwan Normal University	
SAT-PE-023 P05-0024	Chemoselective Triphenylphosphonium Probes for Capturing Reactive Carbonyl Species and Regenerating Covalent Inhibitors with Acrylamide Warheads in Cellulo Ai-Lin Chen, Zih-Jheng Lin, Hsiao-Yu Chang, National Taiwan University	
SAT-PE-024 P05-0025	Efficient Synthesis of N-Acetyllactosamine-Repeating Tetrasaccharides Peggy Huang, Riping Phang, Academia Sinica	
SAT-PE-025 P05-0026	Developing Whole-cell Biosensors for Visual Detection of Mercury Ions Using Logic Gate Operations Yu-Chia Chang, National Taiwan Normal University	
SAT-PE-026 P05-0027	Developing versatile controllable releasing strategies of boronic acids in biological system Chih-Yao Kao, National Taiwan University	
SAT-PE-027 P05-0028	Exploring Microcin J25 Maturation with the Help of AlphaFold2 Structure Prediction Josh Ho, Hui-Ni Tan, Yi-Ju Chen, Fang-Jie Shieh, Wei-Qi Liu, John Chu, National Taiwan University	
SAT-PE-028 P05-0029	Development of New Pannexin 1 Small Chemical Inhibitors Yi-Ling Wu, Wen-Yun Hsueh, Yi-Ru Lu, National Tsing Hua University; Meng-Tzu Weng, Xin-Yun Liu, National Taiwan University Hospital; Yi-Chung Liu, Ping-Chiang Lyu, National Tsing Hua University; Hsing-Pang Hsieh, National Health Research Institutes; Yu-Hsin Chiu, National Tsing Hua University	
SAT-PE-029 P05-0030	The Effect of Carbon Nanotube Enantiomers in Macrophages Carlos Jose Quiroz Reyes, Academia Sinica; Te-I Liu, Marco Raabe, Ai-Phuong Nguyen, Ricardo Ernesto Canales Chavez, Institute of Atomic and Molecular Sciences	
March 30, 2024 (SAT)		
13:00-14:30	綠色化學 (Green Chemistry)	體育館 7F
SAT-PF-001 P06-0001	Biomimetic Ruthenium H-Cluster Complex and Its Hydrogen Production from Formic Acid and Water Dehydrogenation Yin-Tse Chou, Chi-Hsuan Liao, Teng-Kai Yu, National Yang Ming Chiao Tung University	
SAT-PF-002 P06-0002	Heat Resistance of Bio-based Polybenzoxazine with Epoxy-Difunctionalized Poly(dimethylsiloxane) Hybrids Yang-Chin Kao, Wei-Cheng Chen, National Sun Yat-sen University; Mohamed Gamal Mohamed, Assiut University; Mohsin Ejaz, Shiao-Wei Kuo, National Sun Yat-Sen University	
SAT-PF-003 P06-0003	Plasma-engineered plastics-derived nanocatalysts for environmental applications Chia-Hung Lin, National Taiwan University of Science and Technology	

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綠色化學 (Green Chemistry)

體育館 7F

SAT-PF-004 P06-0004	Exfoliated phosphorus doped FeCo layered double hydroxides as an efficient catalyst for oxygen evolution reaction Chun-Kai Hsu, Yu-Hsu Chang, Wei-Ting Lai, National Taipei University of Technology
SAT-PF-005 P06-0005	Stainless steel nets coated with copper dendrites by electroplating for carbon dioxide reduction reaction Yi-Ting Hsu, Yu-Hsu Chang, Po-Cheng Yu, Zi-Shan Peng, National Taipei University of Technology
SAT-PF-006 P06-0006	Synthesis of phosphorus-doped FeCo₂O₄ electrocatalysts for oxygen evolution reaction Nut Thanasuwanakul, National Taipei University of Technology
SAT-PF-007 P06-0007	Synergetic improvement of manganese doped ceria nanocomposites with dual functionality of propoxur sensing and oxygen evolution reaction Manjula Natesan, Yu-Hsu Chang, National Taipei University of Technology
SAT-PF-008 P06-0008	Microplasma Enable 3D GQD/MXene Composite Sponge for Hyper-Photothermal-induced Desalination and Electricity Generation Yi-Jui Yeh, Kuo-Lun Tung, National Taiwan University; Wei-Hung Chiang, National Taiwan University of Science and Technology
SAT-PF-009 P06-0009	Intrinsically Functionalized Fe/C₃N₄ Nanotubes Display pH-Dependent Oxygen Reduction Overpotentials Chi-You Liu, National Taiwan Normal University
SAT-PF-010 P06-0011	Tailoring the Performance of Lithium-Rich Layered Iron Sulfide Cathodes through Anionic Doping: A Path to Improved Cyclability and Chemical Stability Adane Gebresilassie Hailemariam, Kuei-Hsien Chen, National Yang Ming Chiao Tung University; Tadios Tesfaye, Academia Sinica; Mohammad Qorbani, National Taiwan University; Ching-Ming Wei, Academia Sinica; Li-Chyong Chen, National Taiwan University
SAT-PF-011 P06-0012	The Effect of Concentration Gradient of Pt-Ir/C in the Catalyst Layer on the Tolerance to the Polarity Reversal of a Fuel Cell Wei-Chieh Wu, Ming Chi University of Technology
SAT-PF-012 P06-0013	A Study of the Applications of Platinum Black Catalyst on the Anion Exchange Membrane Water Electrolysis Yu Cheng Kuo, Ming Chi University of Technology
SAT-PF-013 P06-0016	MoS₂ Grain Boundaries: The Key to Enhanced Electrochemistry Radha Raman, National Central University; Ya-Ping Hsieh, Academia Sinica
SAT-PF-014 P06-0017	BiSX and BiSX/g-C₃N₄ (X = Cl, Br, I): Synthesis, Characterization, Photocatalysis of Carbon Dioxide, and Crystal Violet Dye Chin-Hsuan Tseng, Yu-Yun Lin, Shih-Tsuen Huang, National Taichung University of Education
SAT-PF-015 P06-0018	UiO-66-NH₂ Decorated ZnIn₂S₄ Nanocomposite for Photocatalytic CO₂ Reduction Kaian Tsai, Chinjui Kuo, National University of Tainan
SAT-PF-016 P06-0019	Fabrication of ruthenium nanocatalysts in hierarchical MFI zeolites synthesized with ethylenediamine-containing structure directing agents for CO₂ methanation Ethan Andrew Yang, Tsung-Cheng Yang, Saeed Shahbaz, Ko-Kai Chang, Yi-Wei Liao, National Tsing Hua University

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綠色化學 (Green Chemistry)

體育館 7F

SAT-PF-017 P06-0020	Preparation of Cs-promoted Ru catalysts on mesoporous carbon plates with varied graphitization degree for mild ammonia synthesis Li-Yu Wang, National Tsing Hua University; Shih-Yuan Chen, National Institute of Advanced Industrial Science and Technology; Kai-Chun Chen, Cheng-His Yeh, Wei-Chih Hsiao, National Tsing Hua University; Masayasu Nishi, Takehisa Mochizuki, National Institute of Advanced Industrial Science and Technology ; Hsin-Yi Chen, Ho-Hsiu Chou, Chia-Min Yang, National Tsing Hua University
SAT-PF-018 P06-0021	Synthesis of SSZ-13 zeolite using liquid crsatal display waste glass (LCDWG) as silica source Tsung Cheng Yang, Tsung-Chou Hsu, Ethan Andrew Yang, National Tsing Hua University
SAT-PF-019 P06-0022	Enhancing ammonia synthesis activity and stability with mesoporous carbon platelets-supported RuFe alloy catalysts Kai-Chun Chen, National Tsing Hua University; Shih-Yuan Chen, National Institute of Advanced Industrial Science and Technology; Li-Yu Wang, National Tsing Hua University
SAT-PF-020 P06-0023	Mechanochemical beta-Halogenation of Nickel(II) Porphyrins at Room Temperature Yu-Ting Wang, Jia-Xin Chen, Chi-Min Chen, Ching Tat To, Tunghai University
SAT-PF-021 P06-0024	Insight into the Process of Nitrate Reduction Reaction and Functionalized CuO@CCC Nanocatalysts by Probing X-ray Absorption Spectroscopy Jia-Huei Luoh, National Central University
SAT-PF-022 P06-0025	ZnGa_{1.01}Te_{2.13}/S-C₃N₄ and ZnGa_{1.01}Te_{2.13}/GO:Synthesis, Characterization,Photocatalysis of Carbon Dioxide and Crystal Violet Dye Xin-Wei An, National Taichung University of Education
SAT-PF-023 P06-0026	Optimization for the Ultrasound-Assisted Extraction of Antioxidants from Soy Source Residues by Response Surface Methodology Pei Yu Kuo, Chen Shu Jen, National Kaohsiung University of Science and Technology
SAT-PF-024 P06-0027	Optimization for the Ultrasound-Assisted Extraction of Antioxidants from Bambusa edulis (Odashima) Keng by Response Surface Methodolog Tian Chen Wu, Chen Shu Jen, National Kaohsiung University of Science and Technology
SAT-PF-025 P06-0028	Highly Efficient and Selective MgO-Supported Nickel Nitride-Containing Catalysts for CO₂ Methanation Saeed Shahbazi, Jui-Teng Huang, Tsung-Cheng Yang, Wei-Hsiang Hsu, Li-Yu Wang, Cheng-En Hsieh, Jaideep Malik, National Tsing Hua University
SAT-PF-026 P06-0029	Realizing a visible light active and co-catalyst free 2-D layered perovskite for efficient CO₂ photoreduction Jaideep Malik, Ssu-Chi Chen, Saeed Shahabazi, Tsung-Cheng Yang, National Tsing Hua University
SAT-PF-027 P06-0030	Self-assembled Ni/CeO₂ nanoparticle catalyst loaded on nanoporous SiO₂ by co-precipitation for CO₂ hydrogenation Yi-Wei Liao, Cheng-En Hsieh, National Tsing Hua University
SAT-PF-028 P06-0031	Near-infrared responsive AuNPs modifying GO enhanced gelatin hydrogel for synergistic photothermal-chemotherapy. Xi-Er Chen, National Taiwan University
SAT-PF-029 P06-0032	Photoelectrochemical Oxidation of Benzyl Alcohol to Benzaldehyde Utilizing BiVO₄ Photoanode Brian Kuang, Yi-Wen Chen, Jun-Lin Fong, Kuan-Zhu Tu, National Taiwan University
SAT-PF-030 P06-0033	Mechanical and Electrical Performance in Hydrogel-Based Flexible Electronics: Exploring the Impact of Ions and Concentrations Yu Feng Ni, Dian Huan Ji, Chung Yuan Christian University

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SAT-PF-031 P06-0034	Electrochemical reduction of CO₂ on MnO₂/Ni foam Jhih-Pei Cao, Wen-Yin Ko, Shin-Ting Lin, National Chung Hsing University	
SAT-PF-032 P06-0035	Photodegradation of Polystyrene Facilitated by Niobium Oxide, Cerium Oxide and CoFe₂O₄ Tzu-Jung Hsiao, Yu-Ying Lai, National Taiwan University	
SAT-PF-033 P06-0036	In-depth Study of Interface Reaction Mechanisms and Behavior of Calcium Metal Batteries Hsuan Hsuan Su, Shi-Kai Jiang, Wei-Nien Su, National Taiwan University of Science and Technology	
SAT-PF-034 P06-0037	Zinc-Lithium Dual Ion Deep Eutectic Mixtures as Electrolyte for Stable Zinc-based Hybrid Batteries Sin-Yi Syu, Chun-I Lee, National Kaohsiung University of Science and Technology	
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13:00-14:30	光電材料 (Photoelectronic Materials)	體育館 7F
SAT-PG-001 P07-0001	Substitution Effects of Imidazole-Based Chromophores on the Anion Sensing and Fingerprint Recognition Properties Lien-Chen Fu, Mei-Yu Yeh, Chung Yuan Christian University	
SAT-PG-002 P07-0002	Alkali Modified Non-metal Doped g-C₃N₄ for Solar-to-Fuel Conversion Shuo-Yun Chang, Mahmoud Hussien, National Taiwan University	
SAT-PG-003 P07-0003	Comprehensive Neurotoxicity of Lead Halide Perovskite Nanocrystals in Nematode <i>Caenorhabditis elegans</i> Loan Thi Ngo, National Taiwan University	
SAT-PG-004 P07-0004	Dopant-defect engineering in SnS₂ thin films for selective photocatalytic CO₂-to-CH₄ conversion Tadios Tesfaye Mamo, Academia Sinica/National Taiwan University; Mohammad Qorbani, National Taiwan University; Adane Gebresilasise Hailemariam, Academia Sinica/National Yang Ming Chiao Tung University; Amr Sabbah, National Taiwan University; Septia Kholimatussadiah, Academia Sinica/National Taiwan University; Li-Chyong Chen, National Taiwan University; Kuei-Hsien Chen, Academia Sinica/National Taiwan University	
SAT-PG-005 P07-0005	Ionic Conductivity in High-K S-Se Alloy: Advancements in Neuromorphic Computing Pradyumna Kumar Chand, National Taiwan University; Ya-Ping Hsieh, Academia Sinica; Wei-Ssu Liao, National Taiwan University	
SAT-PG-006 P07-0007	Visible-Light-Driven Photocatalysis of Carbon Dioxide and Organic Pollutants by InOCl and Their Composites Yung-Hsin Chen, Yu-Yun Lin, National Taichung University of Education	
SAT-PG-007 P07-0008	Organic dyes containing bis(2',6'-bis(hexyloxy)-[1,1'-biphenyl]-4-yl)amino)phenyl for dye-sensitized solar cells Yu-Pei Cheng, National Central University; Sie-Rong Li, Academia Sinica	
SAT-PG-008 P07-0009	Synthesis, characterization and electrochemical properties of rhenium squares as the cathode materials for sodium-ion battery Hsiang Chen Jao, Febri Baskoro, Hung-Ju Yen, Academia Sinica	
SAT-PG-009 P07-0010	Surfactant Effect on the Film Growth of Cobalt Formate and Its Application as Electro-Catalysts in Dye-Sensitized Solar Cells Yu-Chien Lee, Chun-Ting Li, National Taiwan Normal University	
SAT-PG-010 P07-0011	Influence of Heteroatom in the Layered Silver-Mercaptobenzo-heterocyclic Coordination Polymer on the Electro-catalytic Performance BoYu Han, Xin-Bei Lin, Chun-Ting Li, National Taiwan Normal University	

March 30, 2024 (SAT)

13:00-14:30

光電材料 (Photoelectronic Materials)

體育館 7F

SAT-PG-011 P07-0012	Sulfur to Oxygen Substitution in the PEDOT/PEDTT Copolymer Films and its Effect on the Electro-catalytic Properties Xin-Bei Lin, Chun-Ting Li, National Taiwan Normal University
SAT-PG-012 P07-0013	Lead-free Antimony perovskite Electro-catalysts for The Counter Electrodes in Dye-Sensitized Solar Cells Yuan-Hao Chan, Chun-Ting Li, National Taiwan Normal University
SAT-PG-013 P07-0014	Influence of Viologen Derivatives for The Surface Passivation of Perovskite Solar Cells Shun-Min Chen, National Taiwan Normal University
SAT-PG-014 P07-0015	High-performance Zn-chalcogenolate MOFs Electrocatalysis for Dye-Sensitized Solar Cells Chih-Ya Wu, Chun-Ting Li, National Taiwan Normal University
SAT-PG-015 P07-0016	Enhancement of Candlelight OLED Performance using Al₂O₃ Nano-Films by Atomic Layer Deposition Wei-Zhu Lin, Shih-Hsiang Lai, Fu-Ching Tung, Shih-Chin Lin, Industrial Technology Research Institute; Jwo-Huei Jou, National Tsing Hua University
SAT-PG-016 P07-0017	High-efficiency Dye-sensitized Solar Cells Based on Metal-free Organic Dyes Under Indoor Ambient Light Sie-Rong Li, Mandy M. Lee, Academia Sinica
SAT-PG-017 P07-0018	Metal-Free Organic Dyes with Double Auxiliary Acceptors for High-Performance Dye-Sensitized Solar Cells Gebremariam Zebene Wubie, Academia Sinica
SAT-PG-018 P07-0019	A Sky Blue Multiple Resonance Emitter for Organic Light-Emitting Diodes Tzu-Ying Yen, Yi-Ting Lee, Soochow University
SAT-PG-019 P07-0020	Low Triplet Molecules Based on Anthracene and Pyrene Units for Organic Light-Emitting Diodes Chang-Rui Chen, Yi-Ting Lee, Soochow University
SAT-PG-020 P07-0021	Colorless Poly(amide-imide)s with Low Dielectric Constants and Enhanced Mechanical Properties through Tri-Armed Crosslinkers Jinwei Lin, National Yang Ming Chiao Tung University
SAT-PG-021 P07-0022	Imidazole-based Turn-On Chemical Probes for Detection of Hydrazine and Their Fingerprint Identification Application Yu-Hsin Chen, Mei-Yu Yeh, Chung Yuan Christian University
SAT-PG-022 P07-0023	Regio-specific influences of aniline substituents on photovoltaic performances of novel photosensitizers based on benzimidazole-fused naphthalene imide derivatives Yue-Tong Lin, Providence University
SAT-PG-023 P07-0024	Boosting PLQY and Dissymmetry Factor of CP-TADF Emitters via Introduction of Chiral Biphenanthrene-Diol Chong-Rui Chen, Jian Lei, National Tsing Hua University
SAT-PG-024 P07-0025	Development of Deuterated Reaction for Diboron-based Molecules Sheng-Yi Yang, National Tsing Hua University
SAT-PG-025 P07-0026	Synthesis of triphenylamine-benzimidazole-naphthalene conjugates for DSSC applications Yu Chen Liao, Yu -Chen Liao, Chih-Jou Chien, Guan-Ru Lin, Hsien-Hsin Chou, Providence University
SAT-PG-026 P07-0027	Dopant effects on the electronic properties of TiO₂ nanocrystals upon interaction with organic dyes Zhang Kai Xiang, Yi-Chen Wu, Hsien-Hsien Chou, Providence University

March 30, 2024 (SAT)		
13:00-14:30	光電材料 (Photoelectronic Materials)	體育館 7F
SAT-PG-027 P07-0028	Effect of alkylamine-functionalization on DSSC performances for benzimidazole-fused naphthalene imide and anhydride derivatives Guan-Ru Lin, Providence University	
SAT-PG-028 P07-0029	Small-Molecule Passivation of Defect Perovskite for Photovoltaic Applications: A First-Principle Calculation Study Yi-chen Wu, Providence University	
SAT-PG-029 P07-0030	蝶型五環雙噻吩衍生物電洞傳輸層材料應用在鈣鈦礦太陽能電池研究 潘奇緯, Yan-Duo Lin, Soochow University	
SAT-PG-030 P07-0031	The Halogen Effect on the Self-Assembly and Photophysical Properties of Indole-Based Molecules Wei Hsing, Chung Yuan Christian University	
SAT-PG-031 P07-0032	Synthesis of copper complex and doubly fenced porphyrins for dye-sensitized solar cells (DSSC) Ding-Cheng Wang, National Chung Hsing University	
SAT-PG-032 P07-0033	Reclamation Analysis of Ge Substrates after the Removal of InGaP/InGaAs/InGaP Double-Heterostructure by Wet Etching Jyun-Yi Tsai, Chung Yuan Christian University	
SAT-PG-033 P07-0034	Imidazole-Based Fluorescent and Colorimetric Sensors for the Detection of Mercury Ions Jia-Hong Zhu, Yi-Shun Liao, Mei-Yu Yeh, Chung Yuan Christian University	
March 30, 2024 (SAT)		
13:00-14:30	奈米孔洞材料 (Nanoporous Materials)	體育館 7F
SAT-PH-001 P08-0002	Prussian Blue Analog With Separated Active Sites to Catalyze Water Driven Enhanced Catalytic Treatments LiuChun Wang, National Cheng Kung University	
SAT-PH-002 P08-0003	FePt-incorporated Metal–Organic Framework Nanoparticles for Drug Delivery and Sonodynamic Therapy Tian-Xin Liu, National Cheng Kung University	
SAT-PH-003 P08-0004	Preparation of MIL-101(Cr)-SO₃H from Recycled PET Bottles and Application in Dye Adsorption Kuo Tong Lee, Yung Hsiang Chen, Ming Chi University of Technology	
SAT-PH-004 P08-0005	Preparation of MIL-101(Cr)-SO₃H Xerogel and Catalyst Application in the Esterification of Cyclohexyl Formate Kuo-Tong Lee, Yen-Ching Tseng, Ming Chi University of Technology	
SAT-PH-005 P08-0006	Effects of Atmospheric Oxygen and Water on the Surface of Mesoporous Graphene Oxide Nanoparticles on the Spectrum and Their Applications Shao-Yun Wang, National Taiwan Normal University	
SAT-PH-006 P08-0007	製備富含 17O 同位素之創新四氧化三鐵奈米粒子 Ting-Hsuan Chen, Chinese Culture University	
SAT-PH-007 P08-0008	Pore Space Partition of Fluorinated and Hydroxylated Metal–Organic Frameworks for Hydrocarbon Separations Tai-Sheng Wang, National Cheng Kung University	
SAT-PH-008 P08-0009	Enhancing Dopamine Detection with Mesoporous Graphene Oxide Nanoparticles-Modified Electrodes Yi-Yun Chang, Yu-Shan Chien, National Taiwan Normal University	

March 30, 2024 (SAT)		
13:00-14:30	奈米孔洞材料 (Nanoporous Materials)	體育館 7F
SAT-PH-009 P08-0010	Pt(IV)-prodrug-loaded and Cu(II), Ru(II)-chelated Metal–Organic Framework Nanoparticles for NIR-mediated Synergistic Anticancer Therapy Romaine Parker Anthony Parker, National Cheng Kung University	
SAT-PH-010 P08-0011	Heavy metal Copper ions detection using green precursor derived carbon dots in Aqueous Media Miao-Wei Lin, Chung Shan Medical University	
SAT-PH-011 P08-0012	Synthesis of Graphitic Multiporous Carbon with High Specific Surface Area, Nitrogen Content and Conductivity from Agricultural Wastes for Supercapacitor Applications Shu-Sian Wang, Zheng-Wei He, Po-Hsuan Wu, National Cheng Kung University	
SAT-PH-012 P08-0013	Near-infrared I/II nanophosphors with Cr³⁺/Ni²⁺ energy transfer for bioimaging Aishwarya Satpathy, National Taiwan University	
March 30, 2024 (SAT)		
13:00-14:30	產業應用 (Industrial Application)	體育館 7F
SAT-PI-001 P10-0001	Carbon molecular sieve evaluation applications and problem case studies Wen-Long Hwang, CPC Corporation, Taiwan	
SAT-PI-002 P10-0002	高安全性膠固態電解質於高能量三元正極材料之應用 Jyu-Lun Yan, Jann-Chen Lin, Chyi-Liuh Ho, Hsing Chang, CPC Corporation, Taiwan	
SAT-PI-003 P10-0003	Analysis of non-volatile residues in mixed-component organic solutions using differential mobility analyzer-condensation particle counter (DMA-CPC) Yu Hsien Wu, Industrial Technology Research Institute	
SAT-PI-004 P10-0004	Research on fouling in hydrosaturation and desulfurization reactors Hsun-Yi Huang, Jyh-Haur Huang, Po-Tsang Lin, Mei-Chin Li, Kun-Chung Li, CPC Corporation, Taiwan	
SAT-PI-005 P10-0005	Thermal Decomposition Characteristics of Ammonium Perchlorate Doped with M (M =Al, Fe, Fe₂O₃, and Cu) and Detonation Nanodiamonds Wei-Che Chang, Jia-Chi Huang, National Chung-Shan Institute of Science and Technology	
SAT-PI-006 P10-0006	Corrosion Experiment Testing and Simulation Analysis Evaluation of Zinc Powder Coating Applied to Carbon Steel Surfaces Yirong Zeng, Hsin-Wei Chang, Ching Yuan Hsu, National Chung-Shan Institute of Science and Technology	
SAT-PI-007 P10-0007	管線洩漏偵測應用於天然氣管線的挑戰 Yu-Sheng Guo, Shu-Li Wang, CPC Corporation, Taiwan	
SAT-PI-008 P10-0008	Preparation of composite solid electrolytes for lithium-ion batteries Keng-Hao Cheng, Yan-Shi Chen, Yan-Xiong Liao, Chia-Min Lai, Yu-Ting Kao, Chun-Hao Huang, Kuei-Sen Chang, Chia-Lin Chang, CPC Corporation, Taiwan	
SAT-PI-009 P10-0009	節能設計對材料永續的影響 Chyi-Liuh Ho, Hsing Chang, JannChen Lin CPC Corporation, Taiwan	
SAT-PI-010 P10-0010	Flame retardant and its treatment for architecture wooden materials Yueh Cheng Lu, Tamkang University	
SAT-PI-011 P10-0011	Chemical-vapor-deposited ZIF67 Doped with Cr and Fe for High-efficient Alkaline and Neutral Seawater Electrolysis Jian-Jie Ma, National Yang Ming Chiao Tung University	
SAT-PI-012 P10-0012	Inventory and Smart Optimization of Greenhouse Gas Emission- Case Study of A Hard Anodizing Plant Mao-Cheng Tsai, National Chin-Yi University of Technology	

MARCH 31

March 31, 2024 (SUN)		
09:00-10:30	無機化學 (Inorganic Chemistry)	體育館 7F
SUN-PA-001 P01-0095	Cardiac Troponin I Quantitative Detection Device based on a PDA/TNW/Au Layered Film Ai Chen Tsai, National Chung Hsing University	
SUN-PA-002 P01-0096	Water Vapor Ad-/De-sorption Behaviors and CO₂ Uptake in A Series 3D Supramolecular Architectures Assembled by 2D Layered Metal-Organic Frameworks, [M(bipy)(C₄O₄)(H₂O)₂]•3H₂O (M = Mn, Fe, Co, Ni, Cu, Zn and Cd) Yi-Chung Chen, Chi-Chieh Wang, Soochow University; Gene-Hsiang Lee, Su-Ying Chien, National Taiwan University	
SUN-PA-003 P01-0097	Synthesis of Titanate-Layer/Carbon Nanotubes Composites for Lithium-Ion Batteries Application Cheng Han Wang, National Chung Hsing University	
SUN-PA-004 P01-0098	Preparation, Property Studies of Cellulose Nanofiber/(Cu-S)_n MOFs Composites Junjay Lai, Po-Chun Wang, Yuan-Hsiang Yu, Fu Jen Catholic University	
SUN-PA-005 P01-0099	Investigation of Au-Based Nanostructures by X-Ray Ptychography Ching-Yi Chou, National Yang Ming Chiao Tung University	
SUN-PA-006 P01-0100	Synthesis of Naphthazarine-based Metallopolymers Kun-Syue Wu, National Dong Hwa University	
SUN-PA-007 P01-0102	A New Luminescent Crystalline Materials for Removing Heavy Metals from Aqueous Solutions Jia-Yi Jian, National Taiwan Ocean University	
SUN-PA-008 P01-0103	Strategy: A way to Strategically Optimize Water Splitting Technology to Achieve High efficiency and Exceptional Stability Ching-Hsiang Lin, National Sun Yat-sen University	
SUN-PA-009 P01-0104	Functional Colloidal Superlattices from Silver Nanocubes Lin Shih Chen, National Taipei University of Technology	
SUN-PA-010 P01-0105	Structural Characterization and Water Vapor ad-/de-sorption Isotherms of three 2D Zn(II) MOFs Constructed by tripodal thioether-based pyridinyl-type Ligand and V-shape Dicarboxylate Ligands Yu-Chen Chung, Soochow University	
SUN-PA-011 P01-0106	Synthesis and Structural Characterization of Coordination Polymers Constructed by [Co(NCS)₂] with a Fixed Ligand 1,4-bis(4-pyridyl)-2,3-diaza-1,3-butadiene(4-bpd) Song-Wun Ying, Chih-Chieh Wang, Soochow University; Gene-Hsiang Lee, National Taiwan University	
SUN-PA-012 P01-0107	Synthesis and Structural Diversity of Five Solvent-dependent Structural Isomeric MOFs of [Ni(4-bpd)₂(NCS)₂] (4-bpd = 1,4-bis(4-pyridyl)-2,3-diaza-1,3-butadiene) Hsiao-Ling Wang, Soochow University	
SUN-PA-013 P01-0108	Spinel Metal Oxide Nanocrystals for the Magnetism and Electrocatalysis Applications Han Chun Lin, National Taipei University of Technology	
SUN-PA-014 P01-0109	Synthesis, Structural Characterization of A 3D Cu(II) MOF Constructed by Oxalate (C₂O₄²⁻) and 1,3,5-tris(4-pyridylsulfanylmethyl)-2,4,6-trimethylbenzene (tpsmb) Ligands Bin-Yu Lu, Chih-Chieh Wang, Soochow University; Gene-Hsiang Lee, Su-Ying Chien, National Taiwan University	
SUN-PA-015 P01-0110	Hydrophobic Modification of Al-Metal-Organic Frameworks by Silane Coupling Reaction for CO₂ capture Shao-Yu Huang, National Taiwan Normal University	

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09:00-10:30

無機化學 (Inorganic Chemistry)

體育館 7F

SUN-PA-016 P01-0111	Synthesis and Structural Characterization of Two M(II) (M = Co and Cu) Coordination Polymers Constructed by 1,3,5-tris(4-pyridylsulfanyl-methyl)-2,4,6-trimethyl-benzene (L1) and NCS⁻ ligands Yu-Shan Hsieh, Chih-Chieh Wang, Soochow University; Gene-Hsiang Lee, Su-Ying Chien, National Taiwan University
SUN-PA-017 P01-0112	Insights into Crystal Structure Determined from High-Resolution X-ray Powder Diffraction on Shape-controlled Nanoparticles Bo Hao Chen, Yu Chun Chuang, National Synchrotron Radiation Research Center
SUN-PA-018 P01-0113	Expand the electrochemical window by dual-halogen solid-state electrolytes Yan-Cong Wen, Ru-Shi Liu, National Taiwan University; Da-Hua Wei, National Taipei University of Technology
SUN-PA-019 P01-0114	Using Fourier Transform Infrared Spectroscopy and Scanning Electron Microscope with Energy Dispersive X-ray Spectroscopy for the Analysis of Residues from The the explosive sound type Firework and Firecracker Tzu Chiao Chen, 林如瑩, Taipei City Fire Department; 張淑美, National Taipei University of Technology
SUN-PA-020 P01-0115	Adsorption and Reaction Mechanism of Pd₄ Clusters in MOF-253 for CO₂RR Catalysis: A First-Principle Simulation Study Wei-Lun Liang, Meng-Chi Hsieh, National Taiwan Normal University
SUN-PA-021 P01-0116	First Porphyrin-Fused N-heterocyclic Carbene Monolayer for Nitric Oxide Sensing via Surface-Enhanced Raman Spectroscopy Meng-Xuan Lin, Chun-Jun Huang, Genin Gary Huang, Kaohsiung Medical University
SUN-PA-022 P01-0117	Rapid Solvent-induced Lattice Rearrangement of One- to Three-Dimensional Transformation in Cu(II) Metal–Organic Framework Yi-Chen Fan, National Taiwan Normal University
SUN-PA-023 P01-0118	Redox-Active N-heterocyclic Carbene Ligands: Mono and Bis-Asymmetric ligand and Metal complexes Synthesis and their Potential Applications Hanyu Nong, Kaohsiung Medical University
SUN-PA-024 P01-0119	Control on Crystal Phases and Enhanced Surface Area of the Calcium Phosphates for the Remineralization of Dentin Tubules Pin-Yi Wu, Yu-Chun Lin, Jun-Rong Li, National Cheng Kung University
SUN-PA-025 P01-0120	Engineering cathode-electrolyte interface of high-voltage spinel LiNi_{0.5}Mn_{1.5}O₄ via halide solid-state electrolyte coating Jheng-Yi Huang, Ru-Shi Liu, National Taiwan University
SUN-PA-026 P01-0121	Stepwise Self-assembly of Bimetallic Octahedral Molecular Cages Po-Tan Huang, National Taiwan University
SUN-PA-027 P01-0122	Two-Dimensional Materials Constructed via Heteroleptic Terpyridine Complexation Chun-Ping Hsieh, National Taiwan University
SUN-PA-028 P01-0123	Self-Assembly of Cross-linked Structures via a Terpyridine-based Macrocyclic De Sheng Chen, National Taiwan University
SUN-PA-029 P01-0124	Self-assembly of Heterobimetallic Supramolecules via Complementary Ligand Pairing and Site-selective Transmetalation Alisha Rani, National Taiwan University

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無機化學 (Inorganic Chemistry)

體育館 7F

SUN-PA-030 P01-0125	Growth mechanism and characteristics of two-dimensional materials through Muscovite intercalation E-Han Li, Yi-Cheng Chen, Ying-Hao Chu, National Tsing Hua University; Wei-En Ke, National Yang Ming Chiao Tung University
SUN-PA-031 P01-0126	Plant growth modeling and response from broadband phosphor-converted lighting for indoor agriculture Ting-Yi Su, National Taiwan University
SUN-PA-032 P01-0127	Unveiling Growth Mechanism and Catalytic Applications of Chiral Metal Nanoparticles Yun-Hao Chen, National Yang Ming Chiao Tung University
SUN-PA-033 P01-0128	Singlet Oxygen on Material Surface: Energy Transfer via Artificial Defects for NIR Photodynamic Therapy Chi Ching Tung, Ping Yi Jiang, Ming Kang Tsai, Yi Chun Yeh, National Taiwan Normal University
SUN-PA-034 P01-0129	Gas-Phase Catalytic Ammonia Decomposition to Hydrogen Gas over the Ru/MgO Catalyst Tsai-En Ho, National Yang Ming Chiao Tung University
SUN-PA-035 P01-0130	Design of a broadband second to third near-infrared phosphor by controlling the trivalent cationic coordination environment Yun-Hsuan Chang, National Taipei University of Technology
SUN-PA-036 P01-0131	Research on revealing the crystalline state transformation of Al-based metal organic frameworks under treatments of acidic and basic solutions Pei-Ju Lu, National Taiwan Normal University
SUN-PA-037 P01-0132	Synthesis and Structural Characterization of Six Co(II) Coordination Polymers Constructed by 1,3,5-tris(4-pyridylsulfanyl-methyl)2,4,6-trimethyl-Benzene (L1) and Di-carboxylate Ligands Tsai-Ni Chen, Soochow University
SUN-PA-038 P01-0133	Synthesis of 2D Composite with Tunable Superconductivity Shu-Hua Kuo, National Tsing Hua University
SUN-PA-039 P01-0134	Preparation and Catalytic Study of Pd Nanoparticle-Encapsulated Metal-Organic Framework Nanoreactors Shao Hua Yu, National Yang Ming Chiao Tung University
SUN-PA-040 P01-0135	Electrochemical Water Oxidation over Dinuclear Nickel Complex Ruei-Hung Juang, National Yang Ming Chiao Tung University
SUN-PA-041 P01-0136	Chelating Carbene Ligand: Synthesis, Characterization, Coordination Chemistry Sheng Wang, National Yang Ming Chiao Tung University; Bamlaku Semagne Aweke, Academia Sinica; Jiun-Shian Hsen, National Taiwan University
SUN-PA-042 P01-0137	Reaction Chemistry of Novel Dinuclear Iron Complexes with White Phosphorus HAO YUAN LAN, National Yang Ming Chiao Tung University
SUN-PA-043 P01-0138	Palladium and Iridium - Carbodicarbene Complexes : Formation and Unexpected Reaction Selectivities Jiun-Shian Shen, Academia Sinica
SUN-PA-044 P01-0139	Synthesis, Characterization and Spectroscopic Studies of Ir and Ru Complexes based on Sulfurated Pyridine-Triazole Ligand Scaffolds Hisn-Yu Chang, National Chung Cheng University

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無機化學 (Inorganic Chemistry)

體育館 7F

SUN-PA-045 P01-0140	Comprehensive study on sulfurization kinetics and adsorption of transition metal ions to enhance the HER performance of CdSe(en)_{0.5} nanosheets: in-depth analysis of mesoporous structural changes and radical formation Te-Yung Hsiao, Tzung-En Hsieh, Wei-Chen Lee, National Taiwan Normal University
SUN-PA-046 P01-0141	A first-principle study for CO₂ reduction by Bi(iii) oxide nanoparticle Hsin-Chen Lin, Tsung-Han Tsai, National Taiwan Normal University
SUN-PA-047 P01-0142	Suzuki Coupling of Twisted Amides: An Effective Pd Precatalyst Strategy Khuan Hao Kang, Yun-Hsu Tsai, Yu-Xiang Liu, Providence University
SUN-PA-048 P01-0144	Elucidating the Epitaxial Growth Mechanisms of Solution-Derived BiVO₄ Thin Films Utilizing Rapid Thermal Annealing Guan-Zhu Tu, National Taiwan University
SUN-PA-049 P01-0145	Plastic identification by using energy transfer enhanced broadband short-wave infrared phosphor Mg₃Ga₂GeO₈:Cr³⁺, Ni²⁺ Jing-Hong Lu, Andi Magattang Gafur Muchlis, National Taipei University of Technology
SUN-PA-050 P01-0146	A Comparison Study of Phase Engineered Dichalcogenides Decorated High-Purity MXene Heterostructure for Efficient pH Universal Hydrogen Evolution Reaction Shabana Neermunda, Muhsin Punoli, National Taiwan University
SUN-PA-051 P01-0147	The Development of Mass Spectrometry Platform to Study the Organometal -Catalyzed Reaction Mechanism Yun-Rou Zeng, National Chung Hsing University
SUN-PA-052 P01-0148	CuFe₂O₄: Unraveling Conductivity-Type Switching for Enhanced Photoelectrocatalysis in Solar-Driven Reduction Reactions Yen Chun Huang, National Taiwan University
SUN-PA-053 P01-0149	Enhancing Polymer Solvent Selection: A Machine Learning Approach to Predicting Solubility Parameters Huei-Ching Liao, National Taiwan University
SUN-PA-054 P01-0151	A New member of Fe(4)-oxo species with TMC-im ligand: Characterizations and reactivity studies Hsiang-Mu Wu, Wei-Min Ching, National Kaohsiung Normal University
SUN-PA-055 P01-0152	Compared the reactivity of Fe(IV)-oxo species with different numbers of the Benzyl groups in TMC ligand Zih-Yan Liao, Kuan-Ying Chen, Chih-Yu Chou, Wei-Min Ching, National Kaohsiung Normal University
SUN-PA-056 P01-0153	Synthesis and Characterization of Chiral BINAP-Carbene Metal Complexes and Their Application in Catalysis He-Xin Xiao, Wen-Ching Chen, Academia Sinica; Ching-Yu Liao, National Central University; Glenn P. A. Yap, University of Delaware
SUN-PA-057 P01-0154	Employing Mesoporous LZO on Al₂O₃ Support in NiO Catalyst Preparation for Oxidative Steam Reforming of Ethanol Chun-Yu Yang, National Yang Ming Chiao Tung University
SUN-PA-058 P01-0156	Characterizations and reactivities of the iron (II) Ethylene-Bridged Dialkylcyclam complexes [Fe^{II}(EBC-2R)]²⁺ and related Fe^{IV}-oxo species Fan Hsuan Lin, Yi Hsin Chen, Wei Min Ching, National Kaohsiung Normal University

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無機化學 (Inorganic Chemistry)

體育館 7F

SUN-PA-059 P01-0158	Synthesis and Catalytic Application of Silver(I) Complexes Supported on Zinc Oxide Nanoparticles Lin Jing Wang, National Chung Cheng University
SUN-PA-060 P01-0159	The Oxyhydroxide Bilayer Catalyst in Oxygen Evolution Reaction with Drop-casting Method Pei-Chin Lee, National Sun Yat-sen university
SUN-PA-061 P01-0160	Characteristics of spectral observations for Os-bpy chromophores Yu-Hui Lin, Yuan-Jang Chen, Fu Jen Catholic University
SUN-PA-062 P01-0161	Synthesis of Multiple Function Drug Carriers via Ring Opening Polymerization and Supramolecular Chemistry Kuan-Heng Cheng, National Taiwan University
SUN-PA-063 P01-0162	Preparation and Properties Study of Fluorescent MOF/HEP Composite for Anticorrosion Application Yun Yun Yan, Yuan Hsiang Yu, Fu Jen Catholic University
SUN-PA-064 P01-0163	The Development of Mass Spectrometry Platform to Study the Organometal -Catalyzed Reaction Mechanism Yun-Rou Zeng, National Chung Hsing University
SUN-PA-065 P01-0164	Facile Synthesis of High-Quality 2D Trichalcogenides and Its Incorporation in MXene for Hydrogen Evolution Reaction Muhsin Punnooli, Shabana Neermunda, National Taiwan University
SUN-PA-066 P01-0165	Understanding the Saccharide Adsorption Dynamics Using Hydrotalcite-derived Oxides Chih-Hsuan Tsai, Academia Sinica
SUN-PA-067 P01-0166	The Carbodicarbene Mn(I) and Re(I) Polycarbonyl Complexes and Its Application in CO₂ Electrocataly Reduction Chung-Lun Chen, Academia Sinica; Charasee Dayawansa, National Sun Yat-sen University
SUN-PA-068 P01-0167	Design of N-heterocyclic carbenes (NHC) Ligands for Nickel Complexes, Structural Study and Catalytic Activity Investigation Chieh-Yu Chen, Chun Yi Yang, Shuchun Joyce Yu, National Chung Cheng University
SUN-PA-069 P01-0168	Evaluation Nitric Oxide Release of Ruthenium (II) Nitrite Complexes for Biological Propose Yin-Hsuan Sun, Kaohsiung Medical University
SUN-PA-070 P01-0169	Preparation and Property Studies of Polystyrene/Mxene Composites by In-situ Emulsion Polymerization Yu-Chen Hsieh, Fu Jen Catholic University
SUN-PA-071 P01-0170	Exploring the Impact of Element Substitution on the Crystal Structure and Oxidizing Abilities in system M-Sb-Se (M = Ge, Sn, Pb) Yu-Chen Kuo, Chia-Wei Yang, National Yang Ming Chiao Tung University
SUN-PA-072 P01-0171	Synthesis and Structural Characterization of Two Cd(II) Coordination Polymers Constructed by 1,3,5-Tris(4-pyridylsulfanyl-methyl)2,4,6-trimethyl-enzene (L1) and Dicarboxylated Ligands Li Ching Cha, Soochow University
SUN-PA-073 P01-0172	Fe-doped CoS₂ for the enhancement of oxygen evolution reaction Lian-Ming Lyu, National Yang Ming Chiao Tung University
SUN-PA-074 P01-0173	BINOL Nanocarriers Exhibiting π-Conjugated Electronic Effects for Enhanced Pt-Catalyzed H₂ Evolution in Alkaline Media Yu-Chung Chang, National Yang Ming Chiao Tung University

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SUN-PA-075 P01-0174	Sugar-mediated green synthesis of immunoregulating and imageable nanoparticles facilitating therapeutic efficacy of immune checkpoint inhibitor on aggressive cancer (GBM and pancreatic) Yu-Cheng Chin, Li-Chan Chang, National Cheng Kung University; Ying-Tzu Chen, China Medical University,	
SUN-PA-076 P01-0175	Investigation of One- Di- Iron Complexes Chao-Yi Chiang, Cai-Hue Li, Shu-Han Chang, Chi-Han Hu, Yong-Hue Dai, Yi-Hong Li, Providence University	
SUN-PA-077 P01-0176	Synthesis and Characterization of Cymene-ruthenium(II) Complexes Bearing Adamantane-thiourea Ligands Chi xin Guo, Kaohsiung Medical University	
SUN-PA-078 P01-0177	Pore-Networking of Rhodium-Based Metal-Organic Polyhedra as Building Blocks to Form Crystalline Metal-Organic Frameworks Yu-Shan Lin, National Taiwan Normal University; Javier Lopez-Cabrelles, Shuhei Furukawa, Kyoto University	
SUN-PA-079 P01-0178	Synthesis and characterization of PNP-based Chromium (II) complexes Wei-Ting Wu, National Sun Yat-sen University	
SUN-PA-080 P01-0179	Wearable Asymmetric Supercapacitor Comprising Cobalt Oxide //Manganese Oxide Electrodes and an Alkaline Gel Electrolyte Ke-Yun Tong, Providence University	
SUN-PA-081 P01-0180	Nickel-based oxide catalysts derived from hydrotalcite by solvent-free method for Oxidative steam reforming of ethanol Chun-Yen Liu, National Yang Ming Chiao Tung University	
SUN-PA-082 P01-0182	Multifunctional solid-state electrolytes for electrochemical energy storage device applications with stretchability, anti-freezing and self-healing capabilities Shan-Ping Chuang, Providence University	
SUN-PA-083 P01-0183	Aluminum complexes synthesis and living ring-opening polymerization catalysis Yu-Hsuan Lin, National Sun Yat-sen University	
SUN-PA-084 P01-0184	Synthesis, Characterization, and Oxidative Properties of Carbene-Coinage Metal Complexes Rui Chen Yung, National Central University	
SUN-PA-085 P01-0185	Semiconducting and redox-active titanium-organic clusters and their electrochemical properties Fernando Augustin, National Cheng Kung University	
March 31, 2024 (SUN)		
09:00-10:30	物理化學 (Physical Chemistry)	體育館 7F
SUN-PB-001 P02-0065	Modeling metal-atom-based hydrogen storage materials in the presence of non-inert gaseous species Ming-Jia Chiu, Po-Ching Huang, National Sun Yat-sen University	
SUN-PB-002 P02-0066	Simulating hydrogen adsorption and diffusion on and in a palladium cluster Chang Yi-Ching, Yun-Hsiu Wan, National Sun Yat-sen University	
SUN-PB-003 P02-0067	Theoretical study on the changes in the hydrogen evolution activity of a defective MoS₂ surface over time due to surface reconstruction Cheng-Te Tsai, National Sun Yat-sen University	

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物理化學 (Physical Chemistry)

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SUN-PB-004 P02-0068	Modeling gas separation with UTSA-280 membranes: kinetic Monte Carlo vs. micro-kinetic modeling Chia-Yi Lin, National Sun Yat-sen University
SUN-PB-005 P02-0069	A Potential Approach for Modeling the Time-Evolution of the Properties of Defective MoS₂ Yu-Han Tsou, National Sun Yat-sen University
SUN-PB-006 P02-0070	Exploring Co-Crystallization Dynamics of L-Phenylalanine and Acetaminophen via Optical Trapping Wen-Chi Wang, Teruki Sugiyama, National Yang Ming Chiao Tung University; Kazuki Okan, Saitama University; Hiroshi Yoshikawa, Osaka University
SUN-PB-007 P02-0071	Computational design and screening of Single-Atom Phthalocyanine-Coordinated transition metal catalysts for the electrochemical cyanide reduction reaction Chen-Hao Fan, Kuang-Yen Chiu, Chinese Culture University
SUN-PB-008 P02-0073	Areca nut extracts-induced pyknosis: an metabolite analysis using nuclear magnetic resonance spectroscopy Tzu-Teng Tseng, Sheng-Fen Wang, Hau-Ren Chen, Eugene C. Lin, National Chung Cheng University
SUN-PB-009 P02-0074	Synthesis of NIR-II Responsive Alginate/Carbon Nanotube Nanocomposite Hydrogels for Drug Delivery Applications Jenny Lai, National Taiwan University
SUN-PB-010 P02-0075	Soft X-ray Induced Surface Reduction in Hydrated Environments Bo-Hong Liu, Shang-Hong Cheng, Chien-Hung Chang, National Synchrotron Radiation Research Center; Juan-Jesus Velasco-Velez, ALBA Synchrotron Light Source
SUN-PB-011 P02-0076	Design of Anticancer Lead Drugs with Bi-inhibition Toward DHFR and TYMS Receptors Through Conditional Variational Autoencoder Based on Protein-Ligand Interaction Pattern Cheng Chih-Yang, National Chung Hsing University
SUN-PB-012 P02-0077	Characterization of Quantum Gate Errors on IBM-Q Superconducting Devices Li-Chai Shih, National Taiwan University
SUN-PB-013 P02-0078	Unraveling the electrocatalytic nitrogen reduction to ammonia on IrO₂ (110) surface: A combined DFT, 3D-RISM, and microkinetic modeling study Shih-Huang Pan, National Taiwan University of Science and Technology
SUN-PB-014 P02-0079	Differentiating GSH from GSSG through Bromide Ion Etching Kinetics on Silver Nanoprisms for Colorimetric Analysis Tzu-Yuan Lin, Cheng-Liang Huang, Hsiu-Ying Cheng, National Chiayi University
SUN-PB-015 P02-0080	Robust and intimate interface enabled by silicon carbide as an additive to anodes for lithium metal solid-state batteries Pavitra Srivastava, National Taiwan University
SUN-PB-016 P02-0081	Synthesis of Amorphous Copper Doped 2D/3D hybrid cesium lead halide perovskites through hot injection method Yu Dian Chen, Tunghai University
SUN-PB-017 P02-0082	Establishment of ultrafast chemical exchange saturation transfer and solvent paramagnetic relaxation enhancement to investigate the intracellular metabolites Tseng, Tzu-Teng, Chun-Chun Huang, Sih-Fang Wang, Eugene C. Lin, National Chung Cheng University
SUN-PB-018 P02-0083	Exploring the Properties of Polar and Non-polar Interfaces Through the Behavior of Droplets at The Interface Jun-hao Wang, Pin-Yuan Lian, Tamkang University

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物理化學 (Physical Chemistry)

體育館 7F

SUN-PB-019 P02-0084	A General Vapour-Assisted Etching Route for Preparing MXenes Heterostructure with Enhanced Photoelectrochemical Performance Yi Chen Yu, National Cheng Kung University
SUN-PB-020 P02-0085	Fluorescent Nanodiamonds with Nitrogen-Vacancy Centers for Sensing and Imaging Extreme Ultraviolet Radiation Pei-Jie Wu, Yi-Mu Tsui, Yuen-Yung Hui, Huan-Cheng Chang, Academia Sinica; Teng-I Yang, Taiwan Instrument Research Institute; Yin-Yu Lee, Tzu-Ping Huang, National Synchrotron Radiation Research Center; Bing-Ming Cheng, Hualien Tzu Chi Hospital, Buddhist Tzu Chi Medical Foundation
SUN-PB-021 P02-0086	Assessment of Modifying SchNet-based Generative Model for Predicting Molecular HOMO-LUMO Gap Bo-Xun Wu, Sheng-Hsuan Hung, Berlin Chen, National Taiwan Normal University
SUN-PB-022 P02-0087	A Simple and Generalized Two-Stage Machine Learning Approach for Predicting Experimental Fluorescent Emission Wavelength Hsuan-Cheng Lee, Zong-Rong Ye, Berlin Chen, National Taiwan Normal University
SUN-PB-023 P02-0088	Preparation of Tungsten diselenide-Graphic carbon nitride for the detection of muscle relaxant rocuronium bromide Chien-An Lu, Providence University
SUN-PB-024 P02-0089	Predicting molecules solubility with molecular dynamics simulations and machine learning Zhe-Hao Zhuang, Kuan-Hsuan Su, Shang-Wei Lin, Chin-Teng Wu, Fu Jen Catholic University
SUN-PB-025 P02-0090	Study on the preparation of reduced graphene oxide-bismuth tungstate composite materials for low concentration nitrogen dioxide detection Xu-Jia Chang, Ren-Jang Wu, Providence University
SUN-PB-026 P02-0091	Exploring Amino Acid Influence and Hydrogen Bonding in PGIS Proton Transfer Dynamics Pei-Ru Liao, Fu Jen Catholic University
SUN-PB-027 P02-0092	Investigating the effect of cationic surfactants on the mechanism of carbon dioxide reduction reaction by using electrochemical infrared spectroscopy Yun-Shan Tsai, National Tsing Hua University
SUN-PB-028 P02-0093	Free-Standing Graphene Microspheres-rGO Flexible Electrode for Supercapacitor Applications Yen-HSuan Li, National Cheng Kung University
SUN-PB-029 P02-0094	Studying the self-assembly of metal-organic frameworks in aqueous environments through molecular dynamics simulations and quantum simulation computing Chi-Fang Sung, Fu Jen Catholic University
SUN-PB-030 P02-0095	Probing the Self-assembly of Metal-Organic Framework by Molecular Dynamics Simulation Shang-Wei Lin, Chin-Teng Wu, Hsiao-Ching Yang, Kuan-Hsuan Su, Chi-Fang Sun, Fu Jen Catholic University; Phuc Khanh Lam, National Central University; Orion Shih, Yi-Qi Yeh, U-Ser Jeng, National Synchrotron Radiation Research Center; Fa-Kuen Shieh, National Central University
SUN-PB-031 P02-0096	Optical Trapping Effects on Supramolecular Photocyclodimerization of 2-Anthracenecarboxylic Acid Mediated by β-Cyclodextrin Yi-Ren Chen, Yan-Ru Lin, Tsung-Wei Shih, National Yang Ming Chiao Tung University; Yoshihisa Inoue, Osaka University; Teruki Sugiyama, National Yang Ming Chiao Tung University
SUN-PB-032 P02-0097	Excited-state proton transfer reaction catalyzed by long-range hydrogen-bond relay Kuan-Hsuan Su, Fu Jen Catholic University; Kai-Hsin Chan, Yu-Chiang Peng, National Taiwan University; Kuan-Hsuan Su, Yi-Xian Lin, Fu Jen Catholic University; Jiun-Chi Liu, Ying-Hsuan Liu, Chao-Hsien Hsu, National Taiwan University; Hsiao-Ching Yang, Fu Jen Catholic University; Pi-Tai Chou, National Taiwan University

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物理化學 (Physical Chemistry)

體育館 7F

SUN-PB-033 P02-0098	Theoretical Study on New Types of Noble-Gas Containing 1,2-dehydroimidazole Anions FNgCN₂C₂H₂⁻ (Ng = Ar, Kr and Xe) Pei-Ru Shen, Kuan-Yi Chou, National Chung Cheng University
SUN-PB-034 P02-0099	Probing short-range hairpin slippage dynamics in trinucleotide repeat sequences with fluorescence lifetime correlation analysis Zheng-Hong Lu, Yong-Zhan Hong, National Pingtung University
SUN-PB-035 P02-0100	Unified Theory for Förster and Modified Redfield Quantum Dynamics Pin-Ze Huang, National Taiwan University
SUN-PB-036 P02-0101	Dynamics of strand slippage in repeat sequences of DNA with single-molecule fluorescence lifetime correlation spectroscopy Yong-Zhan Hong, National Pingtung University
SUN-PB-037 P02-0102	Unveiling the Energy Storage Mechanism of MXene Electrodes: In-Situ Insights from Raman and XRD Spectroscopy in Ionic Liquid Electrolyte Jeremiah Hao Ran Huang, National Cheng Kung University
SUN-PB-038 P02-0103	Investigating the binding interaction between thiazole orange and i-motif DNA: insights from fluorescence correlation spectroscopy Yan-Jyun Lu, Yong-Zhan Hong, National Pingtung University
SUN-PB-039 P02-0104	Investigating the binding interaction between cresyl violet and G-quadruplex DNA with fluorescence lifetime correlation analysis Bingying Hu, National Pingtung University
SUN-PB-040 P02-0105	The Solvent Structures of Deep Eutectic Solvents Formed by Choline Chloride and Phenol Derivatives Studied by Vibrational Spectra and DFT Computation Yi Ting Wu, National Chung Cheng University
SUN-PB-041 P02-0106	Fabrication of High Porosity Nb₂CTx Membrane for Energy Storage Applications Chang-Chun Chen, National Cheng Kung University
SUN-PB-042 P02-0107	Theoretical Study on the Stability of the Noble Gas Containing FNgCC-C₂HN₂X Molecules (Ng = He, Ar, Kr and Xe; X = O, S) Yu-Qiau Wang, Yi-Chun Lin, National Chung Cheng University
SUN-PB-043 P02-0108	Theoretical Study on the Stability of the Noble-Gas Containing Anions : BF₂NgO⁻ (Ng = Ar , Kr and Xe) Jing-Hong Xiao, Yu-Wei Chang, National Chung Cheng University
SUN-PB-044 P02-0109	Guanine covalent conjugation in single-walled carbon nanotubes Xin-He Lin, National Taiwan Normal University; Ching-Wei Chan, Te-I Liu, Academia Sinica
SUN-PB-045 P02-0110	Relative stability between neutral and zwitterionic glycine: a cluster approach assisted by deep-learning neural network potential Ying-Cheng Chen, Po-Jen Hsu, Pei-Kang Tsou, Academia Sinica
SUN-PB-046 P02-0111	Theoretical Study on the New Types of the Noble-Gas Containing Molecules C₃N₃H₂CCNgF (Ng = Ar, Kr and Xe) Chin Mei Liao, National Chung Cheng University
SUN-PB-047 P02-0112	Studying Heterogeneous Reactions in microdroplets via Aerosol Optical Tweezers and Raman spectroscopy Yuan-Pin Chang, National Sun Yat-sen University
SUN-PB-048 P02-0113	A Novel Graph Theory to Unravel the Edge Correspondences of Graphene Nanoribbons Cheng-Hao Lu, National Taiwan Normal University

March 31, 2024 (SUN)		
09:00-10:30	物理化學 (Physical Chemistry)	體育館 7F
SUN-PB-049 P02-0114	Theoretical investigation for the plasmonic effect on resonance energy transfer Shih-Han Weng, National Taiwan University	
SUN-PB-050 P02-0115	Study of Substrate Ligands Binding in Proteins (FucTa and B13FT) Lin Po-Chuan, National Ting Hua University	
SUN-PB-051 P02-0116	Investigating the Impact of Cs Promotion on Ru-Based Catalysts in Ammonia Synthesis Cheng Hsi Yeh, National Tsing Hua University	
SUN-PB-052 P02-0117	Machine Learning with Volcanic Principles and Scaling in Catalyst Design Ting Yi Chuang, National Tsing Hua University	
SUN-PB-053 P02-0118	Application of a Composite Material Consisting of MXene, Manganese Sulfide, and Molybdenum Disulfide as Anode Material for Lithium-Ion Batteries Tsai-Chun Chuang, National Central University	
SUN-PB-054 P02-0119	Formation Mechanism of Non-aqueous Synthesized Amorphous Magnesium Calcium Carbonate Shu-Li Li, Shing-Jong Huang Huang, Chung-Yuen Yuan, Yi-Tan Lin, Yuan-Jia Fan, Chun Chung Chan, National Taiwan University	
SUN-PB-055 P02-0120	Mn₃O₄ Doped Biomass-derived Activated Carbon from pumpkin as Anode for High-performance Lithium-ion Batteries Yun-Chu Lin, National Central University	
SUN-PB-056 P02-0121	Simulation of vertical mesoporous materials MCM-41 (⊥) using molecular dynamics approach Hsuan-Wen Chen, National Tsing Hua University	
SUN-PB-057 P02-0122	High-Throughput Virtual Screening of Metal Complexes for Molecular Qubits Using Complete Active Space Self Consistent Field Based Approaches Yi-Zheng Lee, National Tsing Hua University	
SUN-PB-058 P02-0123	Data-driven and generative AI design of small molecule cancer drugs Feng-Wei Yeh, Zhi-Hang Lee, National Tsing Hua University	
SUN-PB-059 P02-0124	Exploring the Molecular Mechanism of Vancomycin Interaction with Single-Strand DNA Aptamers using Molecular Dynamics Simulation Cheng Han Liu, Min-Yeh Tsai, National Chung Cheng University	
SUN-PB-060 P02-0125	A neural network potential assisted first-principle exploration of the structure of saccharides Huu Trong Phan, National Tsing Hua University; Pei-Kang Tsou, Po-Jen Hsu, Academia Sinica	
SUN-PB-061 P02-0127	A Study on Conformational Changes Induced by Methyl Side Chains in Protonated Tripeptides Assisted by NNP Đông Cao Hieu, Academia Sinica	
March 31, 2024 (SUN)		
09:00-10:30	分析化學 (Analytical Chemistry)	體育館 7F
SUN-PC-001 P03-0069	Characterization of Hair Metabolome in 5xFAD Mice and Patients with Alzheimer's Disease Using Mass Spectrometry-Based Metabolomics Tzu-Wei Chen, Chih-Wei Chang, National Cheng Kung University	
SUN-PC-002 P03-0070	Metabolites and nutritional composition in various dairy products: a correlation study based on NMR methods Tsung Jung Wu, Tamkang University	

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分析化學 (Analytical Chemistry)

體育館 7F

SUN-PC-003 P03-0071	Development of planar waveguide mode particle plasmon resonance-based (PWPPR) optofluidic sensor Yi-Yuan Lai, Lai-Kwan Chau, Guo-En Chang, National Chung Cheng University
SUN-PC-004 P03-0072	Metabolism analysis of ayu cultivated in Taiwan aquaculture farm via NMR spectroscopy Yu-Han Yang, Tamkang
SUN-PC-005 P03-0073	Quantifying the number of DNA strands on gold nanoparticles Liting Chen, Chih-Hsien Wang, Lai-Kwan Chau, National Chung Cheng University
SUN-PC-006 P03-0074	使用離子凝膠液體以浸塗法在介電潤濕 (EWOD) 晶片上製備介電薄膜 Chun-Lin Chu, Shau-Chun Wang, National Chung Cheng University
SUN-PC-007 P03-0075	Developing Short-wave Infrared Cytometry Methods for Carbon Nanotube Fluorophores Te-I Liu, Academia Sinica
SUN-PC-008 P03-0076	Novel Analysis of Residual Concentration of Corrosion Inhibitors Lo wen hen, CPC Corporation, Taiwan
SUN-PC-009 P03-0077	Paper-based Plasmonic Array Enables Ultrasensitive 1064-nm SERS for Clinical Applications Li-Chia Lu, National Tsing Hua University
SUN-PC-010 P03-0078	Hierarchical Protein Micro-Nanostructures Fabricated by Polyelectrolyte-Based Pattern Transfer Technique Chang-Yun Wang, National Cheng Kung University
SUN-PC-011 P03-0079	4D-Printed Time-Controllable [H⁺]-Actuated Solid Phase Extraction Device Chia-Hsun Kuo, National Chung Hsing University
SUN-PC-012 P03-0080	Rapid Identification of Nanoplastics via Ultrasensitive Surface-Enhanced Raman Scattering (SERS) Detection for Food Safety Chia-Ling Kuo, Li-Chia Lu, Wan-Ru Chen, National Tsing Hua University
SUN-PC-013 P03-0081	Fabrication of the SERS Substrate Via In Situ Synthesis of Au Nanodendrimer Arrays Kuan-Ting Chen, National Cheng Kung University
SUN-PC-014 P03-0082	Plastic particles on the move: Do we really understand their aerial adventures? Jun-Lun Chang, National Tsing Hua University; Yi-Hsuan Pan, Fang-Hsin Lin, Industrial Technology Research Institute; Tsu-Chin Chou, National Tsing Hua University
SUN-PC-015 P03-0083	Selective electrochemical detection of aluminum ions (Al (III)) in aqueous media by carbon dots (C-dots) Yu Ting Yang, Joji shiraishi, Chung Shan Medical University; Chao-Sheng Chen, Imperial College London; Ming-Hsu Wang, Taipei Medical University; Wei-Ning Huang, Yuanpei University of Medical Technology; Chin-Feng Wan, Chung Shan Medical University
SUN-PC-016 P03-0084	Suppression of coffee ring effect using electrowetting-generated capillary wave to improve the collection efficiency of pathogen micro-particles in a heated droplet Min-Jyun Chen, Shau-Chun Wang, National Chung Cheng University
SUN-PC-017 P03-0085	Potential Development of Carbon dots as Fluorescence Sensing Probe for Chromium (III) metal ions Wei-Cheng Zheng, Chung Shan Medical University; Chao-Sheng Chen, Imperial College London
SUN-PC-018 P03-0086	Electrochemical detection of chloramphenicol using a copper silver electrode in a deep eutectic solvent Ching Hsiang, Soochow University

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分析化學 (Analytical Chemistry)

體育館 7F

SUN-PC-019 CZE analysis of chitosan samples with broad distribution of degree of deacetylation

P03-0087 Yu-Da Zheng, You-Xuan Chang, Tamkang University

SUN-PC-020 Fluorescent recognition and selective detection of nickel ions with carbon quantum dots

P03-0088 Guan-Ji Lai, Chung Shan Medical University; Chao-Sheng Chen, Imperial College London; Ming-Hsu Wang, Taipei Medical University; Wei-Cheng Zheng, Chin-Feng Wan, Chung Shan Medical University

SUN-PC-021 β -Ketoenamine-Based Covalent Organic Framework Used for the Dispersive Solid Phase Extraction of Organophosphorus and Carbamates Pesticides and Their Metabolites Prior to UHPLC-MS/MS

P03-0089

Hao-En Huang, Fu Jen Catholic University

SUN-PC-022 Functionalized Covalent Organic Framework as an Adsorbent for Selective Enrichment of Perfluoroalkyl Substances by HPLC-MS/MS

P03-0090

Jin-Yu He, Fu Jen Catholic University

SUN-PC-023 GC-MS Analysis of the Composition of the Essential Oil from *Citrus medica* var. *sarcodactylis* (Bergamot) and potential therapeutic effects in Alzheimer`s disease (AD)

P03-0091

Joji Shiraiishi, Yu-Ting Yang, Wei-Ning Huang, Chao-Sheng Chen, Chin-Feng Wan, Chung Shan Medical University

SUN-PC-024 Study on the adsorption of ethidium bromide by chitosan

P03-0092

Xin-Wei Zhuang, Yun-Jun Lan, Tamkang University

SUN-PC-025 Optimization of Conditions for Microwave-Assisted Headspace Microextraction of Volatile Compounds from *Eucalyptus citriodora* Hook

P03-0093

Ying Chen Yang, Providence University

SUN-PC-026 Bio-Inspired chitosan/polydopamine-nanoparticle based sorbent bead: A versatile platform for separation and HPLC analysis of tetracycline antibiotics from various sample matrix

P03-0094

Yu-Hui Huang, Arputharaj Emmanuvel, Chen-Han Zhuang, Kaohsiung Medical University

SUN-PC-027 Synthesis of Ag-Au-Pd nanoparticles / reduced graphene oxide composites in deep eutectic solvents for electrochemical sensing acetaminophen.

P03-0095

Pin-Shiuan Wu, Soochow University

SUN-PC-028 Effective Simultaneous Detection of Dopamine, Acetaminophen and Ractopamine by a Well-Constructed Cu-BTC/MWCNTs-COOH Electrochemical Sensor

P03-0096

Kuan Chiao Lu, Fu Jen Catholic University

SUN-PC-029 Room-temperature NH₃ gas sensors based on silver/polypyrrole core-shell nanowires

P03-0097

Kai-Fu Zhang, Pi-Guey-Su, Chinese Culture University

SUN-PC-030 Electrochemical Sensor based on Electropolymerized Molecularly Imprinted Polymer for Ractopamine Detection

P03-0099

Yun-Hsuan Chen, Soochow University

SUN-PC-031 Revolutionizing Carbohydrate Analysis: Unleashing the Potential of MALDI Mass Spectrometry with the Rapidly Freeze-Drying Droplet (RFDD) Method

P03-0100

Jih Ling Jhang, National Chung Hsing University

SUN-PC-032 Fatty acid-coated polypropylene film as solid phase microextraction fiber to extract peptides from aqueous solution

P03-0101

Yi Wen Hsiao, National Kaohsiung Normal University

SUN-PC-033 Development of glycated hemoglobin sensor with microdroplet reaction

P03-0102

Chih-Hung Wang, national cheng kung university

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分析化學 (Analytical Chemistry)

體育館 7F

SUN-PC-034 **Ag/upconversion core-shell nanostructures as a SERS tag for analysis misfolding of amyloid-beta structures**

P03-0104

Yu-Wei Lin, Yi-Hsin Chien, Feng Chia University

SUN-PC-035 **Biopolymeric chitosan/polydopamine film-based metal sorbent and GFAAS assisted sustainable solution for determination of urinary levels of chromium and copper**

P03-0105

Arputharaj Emmanuvel, Yu-Hui Huang, Shivangi Singh, Kaohsiung Medical University

SUN-PC-036 **Easy to Engineer Flexible Nano Biosensor from Inexpensive OHP Sheet for Sweat Neuropeptide-Y Detection**

P03-0106

Jayakrishnan Aerathupalathu Janardhanan, Academia Sinica

SUN-PC-037 **Characterization of Antibody-Drug Conjugates Using Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry**

P03-0107

Po Yu Chou, Ting-Yi Chiang, Wei-Hao Chen, National Cheng Kung University

SUN-PC-038 **Development of a Portable Mass spectrometry Platform for Perfluorohexane Sulfonic Acids (PFHxS) through Bubble Bursting Preconcentration**

P03-0108

Zong-Chi Chan, Yu-Chen Chen, Chun-Yi Lin, Chu-Ping Lee, I-Chung Lu, National Chung Hsing University

SUN-PC-039 **Liquid Crystal Based Sensor to Detect Sialic Acid Over-expressed Cancer Cells using Boronic Acid Functionalized Amphiphilic Ligand**

P03-0109

Rajib Kumar Nandi, Chih-Hsin Chen, Tamkang University

SUN-PC-040 **Preparation of M/ZIF-8 (M=Pd,Au,Pt,Ag) for low concentration hydrogen gas sensing**

P03-0110

Hui-Min Chang, Providence University

SUN-PC-041 **Quantification of Hop-Derived Bitter Compounds in Beer Using Liquid Chromatography Mass Spectrometry**

P03-0111

Yumeng Wang, Chieh-En Teng, Yu-Meng Wang, National Taiwan Normal University; Tai-Huan Li, Zhangmen Brewing Company; Sung-Fang Chen, National Taiwan Normal University

SUN-PC-042 **Do-It-Yourself Spectrometer with Multispectral Sensing Ability**

P03-0112

Tai-Sheng Yeh, Yu-Siou Chen, Ai-Xin Lu, Meiho University

SUN-PC-043 **AIE Luminogen-doped liquid crystal sensor for CO₂ detection**

P03-0113

Tsung Yang Ho, Tamkang University; Po-Ting Chou, Chinese Culture University

SUN-PC-044 **Application of X-ray Microstructure Imaging in Advancing Energy Science**

P03-0114

Ching-Yu Chiang, Wan-Zhen Hsieh, Kuan-Wei Lu, Yu-Hsiang Tseng, National Synchrotron Radiation Research Center

SUN-PC-045 **Fatty alcohol-coated polypropylene membrane as thin-film solid phase microextraction fiber to extract macrolide from aqueous solution**

P03-0115

Jian-Wei Jhang, Sarah Y. Chang, National Kaohsiung Normal University

SUN-PC-046 **Fluorescent bioinspired carbon dots for pH sensing and Synergistic antibacterial applications through led irradiation**

P03-0116

Shi Yu Wang, Yi Ru Chen, National Pingtung University of Science and Technology; Szu-Yin Yu, Yueh Yang, Fang-Rong Chan, Kaohsiung Medical University

SUN-PC-047 **Silver Nano Colloids-based Surface-enhanced Raman Scattering Detection of Myoglobin in Biological Sample**

P03-0117

Shu Han Chang, Kaohsiung Medical University

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分析化學 (Analytical Chemistry)

體育館 7F

SUN-PC-048 P03-0118	Development of Imine-Based Covalent Organic Framework with Special Interaction as Dispersive Solid Phase Extraction Adsorbents for the Determination of Perfluoroalkyl Substances by High Performance Liquid Chromatography-Tandem Mass Spectrometry Chih-Ling Yeh, Fu Jen Catholic University
SUN-PC-049 P03-0119	Deep plasma proteome profiling by immunodepletion and library-based data-independent acquisition mass spectrometry Kun-Hao Chang, Kun-Hao Chang, Yi-Ju Chen, Yi-Shuang Chuang, Yu-Ju Chen, Academia Sinica
SUN-PC-050 P03-0120	Analyses of Chlorination, Dichlorination, Glycation, Glyoxal- and Methylglyoxal-Induced Modifications in Hemoglobin of Breast Cancer Patients by NanoLC-NSI/MS/MS Wei-Ru Pan, National Chung Cheng University
SUN-PC-051 P03-0121	Exploring Serum Amyloid A Isoform Barcode in Colorectal Cancer by Nanoprobe-based Affinity Mass Spectrometry Jia Rong Li, Academia Sinica
SUN-PC-052 P03-0122	Targeting Phosphoproteomics to Nominate Next-line Drug in EGFR Targeted Therapy-resistant Lung Cancer Chiao-Chun Chang, National Taiwan University; Irene-Ya Tai, National Taiwan University; Yi-Ju Chen, Bo-Yi Chang, Yu-Ju Chen, Academia Sinica
SUN-PC-053 P03-0123	Enhanced Proteomic Coverage in Tissue Microenvironment by Immune cell library-assisted DIA-MS Jhih-Ci Yang, Academia Sinica
SUN-PC-054 P03-0124	Sensitive detection of SARS-CoV-2 Spike Protein Using 3D Poly(3,4-ethylenedioxythiophene) Nanorods Syed Atif Ali, Hailemichael Ayalew, Academia Sinica; Bhaskarchand Gautam, National Yang Ming Chiao Tung University; Baskar Selvaraj, Jia-Wei She, Academia Sinica; Jayakrishnan Aerathupalathu Janardhanan, National Yang Ming Chiao Tung University
SUN-PC-055 P03-0125	Development and Application of an EGFR Protein Assay for Precision Prediction of Drug Response Ching-Yi Wan, Academia Sinica; Chia-Yen Wang, National Taiwan University
SUN-PC-056 P03-0126	Exploring Matrix Effects to Enhance Protein Absolute Quantification Performance in LC-MS: Demonstration of EGFR Mutation in Lung Cancer Chia-Yen Wang, National Taiwan University; Huan-Chi Chiu, Academia Sinica; Ching-Yi Wan, Academia Sinica/ National Central University
SUN-PC-057 P03-0127	Liquid Crystal based Sensor for Detection of Chromium (III)-citric complexes in water Yung Jung Chuang, Tamkang University
SUN-PC-058 P03-0128	Dual-functional nanodiamond immunosensors for in vitro diagnostics Trong-Nghia Le, Yuen Yung Hui, Huan-Cheng Chang, Academia Sinica; Xuan Mai Lam, Wesley Wei-Wen Hsiao, National Taiwan University of Science and Technology
SUN-PC-059 P03-0129	Using photocatalytic fluorescent carbon dots combined with artificial intelligence for detection of organic solvents Ming Yu Lin, Min Kung Hsu, Hsian Yu Wang, Wei Yu Chen, National Pingtung University of Science and Technology
SUN-PC-060 P03-0130	Application of Data Independent Acquisition Mass Spectrometry (DIA-MS) for Identification and Quantitation of Haptoglobin in Hepatocellular Carcinoma (HCC) Tiara Pradita, Yi-Ju Chen, Kun-Hao Chang, Academia Sinica

March 31, 2024 (SUN)		
09:00-10:30	分析化學 (Analytical Chemistry)	體育館 7F
SUN-PC-061 P03-0131	Exploring Serum Amyloid A Variant Pattern in Gastrointestinal Cancer Cell Lines by Nanoprobe-Based Affinity Mass Spectrometry Cing-Lan Yiu, National Taiwan Normal University	
SUN-PC-062 P03-0132	Copper nanoparticles-based signal enhancement for detecting human albumin serum by liquid crystal-based immunoassay Muhammad Umer Saeed, Tamkang University	
SUN-PC-063 P03-0133	A Reusable Electrochemistry Platform for Detection of Carbendazim Based on β-cyclodextrin Zhi Jia Chen, Wun Liang, Chian-Hui Lai, National Chung Hsing University	
SUN-PC-064 P03-0134	Monitoring Prevalence of Abuse Drugs in Sewage during the COVID-19 pandemic in North Taiwan Pin-Ju Chiang, Ya-Chi Chang, Pai-Shan Chen, National Taiwan University	
SUN-PC-065 P03-0135	Structural Analysis and Principles of Clustering Triggered Emission Molecules Yu Chi Hsieh, Tamkang University	
SUN-PC-066 P03-0136	Liquid crystal-based sensor for detecting copper ions in one step by using imidazole-based molecular probes Huang Jhih-Wei, Chih-Hsin Chen, Tamkang University	
SUN-PC-067 P03-0103	Deep Learning-Guided Discovery and Prediction of Carbon Nanotube-Based Near-Infrared Nanosensors for Cocaine Ming-Syue Lin, Academia Sinica	
March 31, 2024 (SUN)		
09:00-10:30	有機化學 (Organic Chemistry)	體育館 7F
SUN-PD-001 P04-0080	Iodide-umpolung catalytic system for nontraditional amide coupling from nitroalkanes and amines Chun-Lin Chen, Fu Jen Catholic University	
SUN-PD-002 P04-0081	AIE and J-Aggregate Tuning in Fluorofluorophoes Shirisha Chettukindhi, National Dong Hwa University	
SUN-PD-003 P04-0082	Study of the oxidation of Tert-Butyl Alcohol to Tert-Butyl Hydroperoxide in Microchannel Reactors and Analysis by Nuclear Magnetic Resonance Spectroscopy Jie-An Chen, Shu-Mei Chang, National Taipei University of Technology	
SUN-PD-004 P04-0083	Development of Novel Bioorthogonal Click Reactions for Radiosynthesis Karthik Kalidass, National Dong Hwa University	
SUN-PD-005 P04-0084	Total Synthesis of (-)-Sperabillin C Yui Hidaka, National Chung Hsing University; Ching-Yao Chang, Asia University; Cheng-Kun Lin, National Chung Hsing University	
SUN-PD-006 P04-0085	The photo-oxidative cyclization of 4H-isoquinoline and six-membered ring amino-alcohol compounds and their applications to the natural product synthesis Shan-Shan Chou, Bo-Kai Chang, Yu-Jang Li, National Chiayi University	
SUN-PD-007 P04-0086	Synthesis of Novel Phosphorus-containing Flame-Retardant with DOPO and DOPO-Derivatives Incorporating with Various Bridge Chains You-Sheng Lin, Wen-Ting Chang, Wen-Wei Chen, National Chi Nan University; Zhao-Ming Lee, Symbio, Inc.; Sheng-Han Huang, Teh-Pei Lin, Quanta Engineering and Consulting CORP.; Ming-Yu Kuo, National Chi Nan University	

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有機化學 (Organic Chemistry)

體育館 7F

SUN-PD-008 P04-0087	Synthesis of New Cleavable and Recyclable Aryl Trifluoromethyl Bis-Diazirine Polymer Crosslinker for Polymer Functionalization Wen-Ting Chang, You-Sheng Lin, Wen-Wei Chen, National Chi Nan University; Zhao-Ming Lee, Symbio, Inc.; Sheng-Han Huang, Teh-Pei Lin, Quanta Engineering and Consulting CORP.; Ming-Yu Kuo, National Chi Nan University
SUN-PD-009 P04-0088	Ligand-Free, Stereoselective Nickel-Catalyzed Isomerization of Alkenylbenzenes Hao Lin Yang, Yung-Chi Chang, National Kaohsiung Normal University
SUN-PD-010 P04-0089	Exploration of photochemical microfluidic-facilitated polymer-gold nanocomposite synthesis Meng-Jie Wu, Reynaldo Montalbo, Academia Sinica
SUN-PD-011 P04-0090	Infrared light-absorbing related porphyrin synthesis Tsung-Hsuan Yu, Chen-Yu Yeh, National Chung Hsing University
SUN-PD-012 P04-0091	Metal-free Annulative π-Extension of Boron-Doped Polycyclic Aromatic Hydrocarbons with Alkynes To-Jen Chin, Anitha Mandala, Guan-Cheng Liu, National Taiwan University; Chi-Tien Hsieh, Mu-Jeng Cheng, National Cheng Kung University
SUN-PD-013 P04-0092	Photothermal Aza-Michael Addition of Divergent Amines to Vinyl Sulfones: A Method Towards Transition Metal- and Base-Free Medium Tamilselvan Duraisamy, Kaohsiung Medical University
SUN-PD-014 P04-0093	Base-promoted triple cleavage of CCl₂Br: A direct one-pot synthesis of unsymmetrical oxalamide derivatives Alageswaran Jayaram, Kaohsiung Medical University
SUN-PD-015 P04-0094	Synthesis, characteristics, and studies of new fluorinated aniline perovskite materials Zong-Yu Zheng, National Taipei University of Technology
SUN-PD-016 P04-0095	Introduce functional groups with spiro as the core structure as passivation agents in perovskite solar cells Nai-Hwa Chen, Tunghai University
SUN-PD-017 P04-0096	A versatile heteroatom nucleophile hub approach for the bioconjugation of thiols and amines Yu De Chuang, National Cheng Kung University
SUN-PD-018 P04-0097	Palladium-Mediated C-H Bond Activation/Arylation of Dibenzosuberone and Mechanistic Investigation You-Zhen LIN, Jin Lee, Wan-Wen Huang, Ying-Hui Chen, National Taitung University; Eldhose V. Varghese, Chia-Hsiang Chen, Kaohsiung Medical University
SUN-PD-019 P04-0098	Synthesis, Characterization and Research of the New Fluorine-containing Benzylammonium Salts and Perovskite Materials Yu-Ching Lin, National Taipei University of Technology
SUN-PD-020 P04-0100	Detection of neutrophil gelatinase-associated lipocalin using field-effect transistors Jun-Wei Zhang, National Taipei University of Technology
SUN-PD-021 P04-0101	Stimuli-responsive Multicolor Fluorescent Behaviors of Anthracene Containing Carboxylic Ester Moieties Mandy Lee, Academia Sinica
SUN-PD-022 P04-0102	Synthesis of Meso-tetraphenylporphyrin and Tetrasodium Tetra(p-sulfonatophenyl) Porphyrin - Green and Innovative Modifications Tsun Hei Yu, Pin-Yuan Lian, Tamkang University

March 31, 2024 (SUN)

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有機化學 (Organic Chemistry)

體育館 7F

SUN-PD-023 PhNCO-enabled synthesis of secondary amides from N-(2-aminophenyl)benzamides

P04-0103 Chen Nian Qi, Kaohsiung Medical University

SUN-PD-024 Metal-free Activation of N-C(O) Amide Bonds – Sustainable Divergent Synthesis of N-acyl thiocarbamides in Batch and Continuous-Flow

P04-0104

Karthick Govindan, Kaohsiung Medical University

SUN-PD-025 Versatile applications of Dye-Sensitizers for passivation of Perovskite solar cells and water splitting

P04-0105

Yu-Tong Hung, Yuan Jay Chang, Tunghai University

SUN-PD-026 Polymer Backbone Modification based on Isoindigo Polymer via Post-Polymerization Rearrangements

P04-0106

Li-Chieh Chang, Yu-Ying Lai, National Taiwan University

SUN-PD-027 Chemoenzymatic Synthesis of SJG-2 Glycan

P04-0107

Ya-Syuan Li, Yung-Yu Su, Yan-Ting Kuo, National Tsing Hua University

SUN-PD-028 Synthesis of ganglioside SJG-2 glycan

P04-0108

Yung-Yu Su, National Tsing Hua University

SUN-PD-029 Self-assembly of honeycomb-like structure from dendritic urethane acrylates via the breath figure method to act for SERS detection

P04-0109

Yu Xuan Huang, National Taiwan University; Kuan Syun Wang, Ming Chi University of Technology; Chien Hsin Wu, National Taiwan University/ Advanced Research Center for Green Materials Science and Technology

SUN-PD-030 KOtBu-Mediated Intramolecular O-Aryl Bond Formation of Amides: Synthesis of 2-Aminobenzofuran

P04-0110

Chen-Wei Lien, National Yang Ming Chiao Tung University

SUN-PD-031 Development of Poly(hydroxyaminoethers) as Emulsifier with Reversible Epoxy Resin Emulsions

P04-0111

Taifu Lin, Ying-Chi Huang, Chien-Hsin Wu, Shih-Huang Tung, Ru-Jong Jeng, Li-Ting Wang, Shu-Wei Hsu, Tai-Fu Lin, National Taiwan University

SUN-PD-032 Length-controlled 2D and 3D Double-layered Supramolecular Architectures

P04-0112

Chun-Ting Chen, National Taiwan University

SUN-PD-033 Asymmetric Total Synthesis of Lycopodium Alkaloids Palhinine B and Palhinine C

P04-0113

Amit Pantawane, National Chung Hsing University

SUN-PD-034 Synthesis of Tn, TF and sTn Maleimide Derivative via Chemoenzymatic Method

P04-0114

Ching-Ching Teng, National Tsing Hua University

SUN-PD-035 Discovery of MDSA Analogues as ME2 Inhibitors

P04-0115

Ming-Zhe Guo, Chih-Ming Chen, National Health Research Institutes; Ju-Yi Hsieh, National Chung Hsing University

SUN-PD-036 Total Synthesis of Atropurpuran via Aromatic Oxy-Cope Rearrangement

P04-0116

Ke-Hong Chen, National Health Research Institutes

SUN-PD-037 The Total Synthesis of N-Terminal Acetylated Oxytocin Through Chemical Protein Synthesis

P04-0117

chun-jui chang, National Cheng Kung University

SUN-PD-038 The investigation of stereoselectivity by using 2-fluoro-sialyl donors with primary and secondary hydroxyl acceptors

P04-0118

Bo-Chang Ruan, Chen-Hao Pan, National Chung Cheng University

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09:00-10:30

有機化學 (Organic Chemistry)

體育館 7F

SUN-PD-039 P04-0119	Development of TPE-based fluorescent molecular rotors for real-time biosensing of specific receptors Huai-En Chang, Song-Han Chen, National Chung Cheng University
SUN-PD-040 P04-0120	The Impact of Incorporating Fluorinated Chains-modified Tyramine on the Performance of Perovskite Materials Bang Zheng Liu, Norman Lu, National Taipei University of Technology
SUN-PD-041 P04-0121	A Benzothiazole Complexes-based Structure-Activity Relationship (SAR) Study for Special Optical Properties to Applications Xuan-Yu Chen, Chieh-Yi Chen, National Chung Hsing University
SUN-PD-042 P04-0122	Synthesis of PDMS-μ-PCL miktoarm star copolymers by combinations (ϵ) of styrenics-assisted atom transfer radical coupling and ring-opening polymerization and study of the self-assembled nanostructures Yi-Shen Huang, National Chung-Hsing University
SUN-PD-043 P04-0123	Synthesis and Activity Evaluation of Resveratrol Derivatives as Pathogenic Bacterial Inhibitors Chia-Hung Chang, National Changhua University of Education
SUN-PD-044 P04-0124	The influence of inductive and solvent effects on Ugi-Type multicomponent polymerizations Yu Wen Chen, National Chung Hsing University
SUN-PD-045 P04-0125	BODIPY-NHC-Au(I) Complexes: Synthesis, and Evaluation of the Photophysical and Photo-releasing Properties Chi Heng Yang, Kaohsiung Medical University
SUN-PD-046 P04-0126	Bottom-up synthesis of size-tuneable pH-responsive nanoparticles in a thin microfluidic chip reynaldo carlos Kuizon montalbo, Academia Sinica
SUN-PD-047 P04-0128	Towards the Total Synthesis of Isopalhinine A via Radical Rearrangement Chih-Ming Chen, Satyanarayana Reddy Julakanti, National Health Research Institutes
SUN-PD-048 P04-0129	Stereochemical-enabled cationic ring-opening polymerization and depolymerization of glucose-derived polysaccharide mimetics Tzu Ying Lee, Yi Hsuan Lin, Lin Wei Chen, National Cheng Kung University
SUN-PD-049 P04-0130	Transition-metal and Solvent-free Synthesis of (polyfluoro) - Contains Imidazo[1,2-a]pyrimidines via Intramolecular C-N Bond Formation / 6- Endo-DigCyclization. Vijay Thavasianandam Seenivasan, Kaohsiung Medical University
SUN-PD-050 P04-0131	Synthetic approach of isotwistane: the effect of ring strain on thiol mediated acyl radical rearrangement Sheng-Kuo Lin, Chih-Ming Chen, National Health Research Institutes; Chi-Tien Hsieh, National Cheng Kung University; Satyanarayana ReddyJulakanti, National Health Research Institutes; Mu-Jeng Cheng, National Cheng Kung University
SUN-PD-051 P04-0132	Study on Stimuli-Responsive Properties of acylamide-Based Molecules Chin-Han Lee, Kuan-Wei Chen, Academia Sinica
SUN-PD-052 P04-0134	Asymmetric Synthesis via SH₂ 1,2-Alkoxyulfenylation Catalyzed by Chiral Vanadyl Complexes Yueh-Hua Liu, Hao-Yang Tsui, Chiu-Han Hwang, Pei-Hsuan Chien, National Tsing Hua University
SUN-PD-053 P04-0135	Preparation of porous macrocycle based on triazine unit and study of its gas isotherm Ziting Gu, National Chi Nan University

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有機化學 (Organic Chemistry)

體育館 7F

SUN-PD-054 P04-0136	Promoted FRET Processes of Multi-Stimuli Responsive [2]Rotaxanes with Fluorophoric Naphthalimide Donor and Merocyanine Acceptor for Cyanide Detection and Bio-Imaging Applications Yu-Hsuan Pan, Be-Nhi Pham, Thi Kim Cuc Tu, Chang-Ching Weng, Yaw-Kuen Li, Hong-Cheu Lin, National Yang Ming Chiao Tung University
SUN-PD-055 P04-0137	Nanocasting technique for imprinting a natural leaf pattern on biomimetic polyaniline to yield an artificial hierarchical surface structure for gas sensing Jui-Ming Yeh, Chung Yuan Christian University
SUN-PD-056 P04-0138	Synthesis of 3-Allenyltetrahydrofurans and 4-Allenyl-2-oxazolines from (Z)-Pent-2-en-4-yn-1-ol Derivatives Shi-Heng Hung, National Taiwan University
SUN-PD-057 P04-0139	Palladium-Catalyzed C-H Allylation of Proaromatic Acids with Allyl alcohols and N-Allyl Sulfonamides Yin-Chia Lu, Veerabhushanam Kadiyala, Yu-Ying Jhuang, Chih-Ming Chou, National University of Kaohsiung
SUN-PD-058 P04-0140	Synthesis of Highly Substituted Acephenanthrylenes Derivatives with Difluoroalkyl Groups and Their Liquid Crystal Properties. Ya-Chi Chung, Chun-Liang Yeh, Tamkang University
SUN-PD-059 P04-0141	Synthesis of Fluorinated Amino Acids Chi-Sheng, Wen, Duen-Ren Hou, National Central University
SUN-PD-060 P04-0142	Synthesis of a Lactyl Ether-Substituted Arabinan Fragment to Probe Anti-Lipoarabinomannan Antibody Binding Ching-Wen Hsu, Academia Sinica
SUN-PD-061 P04-0143	Synthesis of KRN7000 Analogues Via Ring-Opening of Oxazolidinone Fused Aziridine by Hydroxyl Group Tsung Lun Tsai, Duen-Ren Hou, National Central University
SUN-PD-062 P04-0144	Demonstration of a Conjugated Microporous Polymer-Based Electrochromic Framework Through Metal-Catalyst-Free Route Gaurav Kumar Silori, National Taiwan University
SUN-PD-063 P04-0145	Investigation of Helical Direction Induction of Multiple [4]Helicene Aromatic Compounds by Chiral Center. Hsiang-Jen Cheng, Tamkang University
SUN-PD-064 P04-0146	Stereo- and Regiocontrol in Intermolecular [2+2] Cycloadditions between Diarylketenes and Allenamides to Access Substituted α-Methylenecyclobutanones Akshay Suresh Kshirsagar, National Tsing Hua University
SUN-PD-065 P04-0147	The use of multicomponent reactions in the development of bis-boronic acids for the detection of β-sialic acid Yun-Hung Chung, Tamkang University
SUN-PD-066 P04-0148	Development of quinoline-based fluorescent probes for selective detection of hydrogen sulfide Li Ting Lin, Chung Shan Medical University
SUN-PD-067 P04-0149	Rh(III)-Catalyzed C-H Activated [4+2] Annulation of 2-Benzylbenzimidazole-5-Carboxylic Acid with Iodonium Ylide Yu-Sheng Cheng, National Yang Ming Chiao Tung University

March 31, 2024 (SUN)		
09:00-10:30	有機化學 (Organic Chemistry)	體育館 7F
SUN-PD-068 P04-0150	Synthesizing a 7-aminoquinoline derivative with 3-position conjugation for selective hydrogen sulfide sensing Yu-Cheng Lin, Chung Shan Medical University	
SUN-PD-069 P04-0151	Synthesis, structural identification, and performance of 2-(2'-aminophenyl)benzothiazole fluorescence probe for detecting hydrogen sulfide Yan-Xun Chen, Chung Shan Medical University	
SUN-PD-070 P04-0152	Developing a quinoline-based fluorescent sensing platform: a demonstration with hydrogen peroxide detection Chen-Ting Liao, Chung Shan Medical University	
SUN-PD-071 P04-0153	Aiming High Performance on Ultra-Thin Perovskite Solar Cell Concerning HTL Treatment and Utilization Galing Murokinas, Ming Chi University of Technology; Nurul Ridho Al Amin, National Taiwan University of Science and Technology	
SUN-PD-072 P04-0154	The Synthesis of Tricyclic Cyclopropane Derivatives via Endo-cyclic Annulation by Using Propargyl Sulfur Ylides Yun-Zhen Xie, Bo-Xuan Pan, Fu Jen Catholic University	
SUN-PD-073 P04-0155	Palladium-Catalyzed C(Alkenyl)-H Olefination/Lactonization of 2,5-Cyclohexadiene-1-Carboxylic Acid Derivatives with 1,3-Dienes Po-Jui Huang, Veerabhushanam Kadiyala, Chih-Ming Chou, National University of Kaohsiung	
SUN-PD-074 P04-0156	Pd(II)-Catalyzed [5 + 2] Cyclization of N-Triflyl Aryl Indoles and α,γ-Substituted Allenolates: A Route to Indole-Fused Benzodiazepines Ting Yen Chu, Wei-Jung Chiu, Indrajeet J Barve, National Yang Ming Chiao Tung University	
SUN-PD-075 P04-0157	Robust Synthesis of Tetra-Boronate Esters Analogues and the Corresponding Boronic Acids Derivatives Tingan Chou, Tamkang University	
SUN-PD-076 P04-0158	Copper (I) chloride-catalyzed photoredox synthesis of multifunctionalized compounds at room temperature and their antifungal activities Vaibhav Pramod Charpe, National Tsing Hua University	
SUN-PD-077 P04-0159	Construction of the Asymmetrically Branched Core Tetrasaccharide for the Enzymatic Glycan Extensions : Lacto-N-Octaose and iso-Lacto-N-Octaose Derivatives Li-Min Xu, Yi-Tung Hsieh, Yu-Ying Wang, Ching-Ching Yu, National Tsing Hua University	
March 31, 2024 (SUN)		
09:00-10:30	化學生物 (Chemical Biology)	體育館 7F
SUN-PE-001 P05-0032	Length-dependent protein aggregation of hamster prion protein and cryo-EM structure of hamster prion protein (23-144) fibrils Jing Ee Saw, National Taiwan University	
SUN-PE-002 P05-0033	A Material-Centric Exploration: Stabilizing Human Calcitonin By Inhibiting Aggregation Ching-Hong Huang, National Taiwan Normal University	
SUN-PE-003 P05-0034	Effect of soy protein-based sponge on mesenchymal stem cell exosome secretion Li-Min Wang, National Yang Ming Chiao Tung University	
SUN-PE-004 P05-0035	Optimizing surface presentation of target proteins on Escherichia coli membrane Pei Yu Chen, National Taiwan Normal University	

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化學生物 (Chemical Biology)

體育館 7F

SUN-PE-005 P05-0036	Cholesterol-Peptide Derivatives for the Interruption of Amyloid Protease Aggregation for Alzheimer's Disease Yi-Chen Lin, Shu-Yu Lin, Chien-Chung Cheng, National Chiayi University
SUN-PE-006 P05-0037	Oriented and Covalent Immobilization of Antibody by BA-tosyl Probe and Glycan Engineering of N-glycan Wen-Hua Kuo, National Tsing Hua University
SUN-PE-007 P05-0038	Shedding light on the recognition between Shiga toxin B and Gb3: from precision science to biomedical applications Zong-You Lee, Academia Sinica
SUN-PE-008 P05-0039	Design and synthesis of sugar based ligands to study their ligand-receptor recognitions: applications toward lysosomal storage diseases Jun-Yao Chang, Academia Sinica
SUN-PE-009 P05-0041	Fibroblast Activation Protein Targeted Radiotracer Using [18F]-AIF Labeling Strategy for PET Imaging Wei-Min Zhang, Chuan-Lin Chen, National Yang Ming Chiao Tung University
SUN-PE-010 P05-0042	Polyvinyl alcohol combine xanthan gum adds ϵ-poly-lysine antibacterial microneedle array patch for promoting wound healing. Pei-Ti Pan, National Taipei University of Technology
SUN-PE-011 P05-0043	Derivative based on Benzothiazole for cellular imaging and ROS evaluation Ryan Joshua Liou, Chia-Feng Hsieh, National Chung Hsing University
SUN-PE-012 P05-0044	Synthesis of lanthanum-doped carbon dot hydrogel composites with high antibacterial activity as wound dressings Shih-Han Tsai, National Taipei University of Technology
SUN-PE-013 P05-0045	Solvent effect on guanosine monophosphate-based hydrogels Dong-Yen Yu, National Yang Ming Chiao Tung University
SUN-PE-014 P05-0046	Molecular Docking: Analysis of Glucosylceramidase Interactions with Activators and Inhibitors Fitri Santy Budiarmo, Tunghai University; Rizky Mawardi, Makariwo Halmahera College of Health Sciences; Andy Howard Limengan, Surabaya University
SUN-PE-015 P05-0047	Synthesis of Block Copolymers via Atom-Transfer Radical-Polymerization for Drug Delivery ChihYu Wang, National Taiwan University
SUN-PE-016 P05-0048	Investigating thermal stability of cytochrome c redox variants using a Micro-Transparent integrated heater electrochemical cell Tan Yu Hsiao, Ssu-Yu Chen, Hsiang Su, Hsiu-Pen Lin, National Yang Ming Chiao Tung University
SUN-PE-017 P05-0049	Application of Functionalized PEDOT Gradient Surface to Neurite Guidance of Human Induced Pluripotent Stem Cell-derived Retinal Ganglion Cells Jia-Wei She, Academia Sinica; Chia-Mei Young, National Yang Ming Chiao Tung University
SUN-PE-018 P05-0050	Accurate and efficient chemical similarity search tool and contact-distribution-matching method jointly identify FDA-approved drugs that modulate SARS-CoV2 -1PRF and suppress its replication Ahmed Mohamed Ragab Mohamed Sanad, National Tsing Hua University; Kun-Lin Tsai, CDC Taiwan; Sui-Yuan Chang, National Taiwan University Hospital

March 31, 2024 (SUN)		
09:00-10:30	化學生物 (Chemical Biology)	體育館 7F
SUN-PE-019 P05-0051	Evaluation of the anti-angiogenic effects of a new coumarin-derivative in zebrafish and chick models Ching-Yuan Huang, Han-Ting Huang, Chih-Jou Lee, Tamkang University	
SUN-PE-020 P05-0052	Anti-cataract Effect of a Traditional Chinese Medicine, Chrysanthemum Combination, in a Zebrafish Model I-Ting Lee, Tamkang University	
SUN-PE-021 P05-0053	Chemoenzymatic Synthesis of Asymmetrically Branched Human Milk Oligosaccharides : LNnO and Its Fucosyl Derivatives Ho Tsung-Han, National Tsing Hua University; Cheng-Fu Li, Xiu-Wen Zhang, National Chung Cheng University; Kai-Eng Ooi, National Tsing Hua University; Cheng-Yu Kuo, National Chung Cheng University	
SUN-PE-022 P05-0054	Interactions and Size Control of Oligomeric Aβ Peptides in Reverse Micelle Han-Wen Chang, Chen-Tsen Yeh, Ho-I Ma, Ming-Che Lee, Shing-Jong Huang, National Taiwan University	
SUN-PE-023 P05-0055	In silico Design and in vivo Functional Verification of Anti-TNBC drugs by BT&D2 Drug R&D System Che-Wei Yuan, National Cheng Kung University	
SUN-PE-024 P05-0056	Virtual Functional Prediction and Identification of Anti-COVID-19 Ingredients from Medicinal Fungus by BT&D2 Drug Targeting System Shu-Han Xu, National Cheng Kung University	
SUN-PE-025 P05-0057	Investigating the substrate tolerance and catalytic mechanism of α1,3/4 -fucosyltransferase from Bacteroides fragilis Kai Eng Ooi, Yung-Jen Cheng, Cheng-Huang Liu, Ching-Ching Yu, National Tsing Hua University	
SUN-PE-026 P05-0058	Gram-scale chemoenzymatic synthesis of human milk oligosaccharides using crude cell lysate Mei-Ting Lin, National Tsing Hua University; Cheng-En You, Yu-Ting Huang, National Chung Cheng University	
SUN-PE-027 P05-0059	Activity Analysis of Novel Multifunctional Fucosyltransferase by Supercritical Fluid Chromatography Guan-Chun Wu, Cheng-Huan Liu, National Tsing Hua University; Yi-Pang Chung, National Chung Cheng University	
SUN-PE-028 P05-0060	Chemoenzymatic Synthesis of Lacto-N-Octaose Derivatives for the Development of a Fluorescence Polarization-based Protein-Glycan Binding Assay Shang-Ru Liu, National Tsing Hua University	
March 31, 2024 (SUN)		
09:00-10:30	綠色化學 (Green Chemistry)	體育館 7F
SUN-PF-001 P06-0038	Sulfur-doped FeZn Composites as Superior Catalyst for Electrolytic Hydrogen Generation in Real Seawater Yi-Chun Yen, Chun-Jern Pan, National Kaohsiung University of Science and Technology	
SUN-PF-002 P06-0039	The LiNO₃-based deep eutectic mixtures comprising organic additives as promising electrolytes for stable Li-metal batteries. Cian-Ping Lin, Chun-I Lee, National Kaohsiung University of Science and Technology	
SUN-PF-003 P06-0040	Eco-friendly transparent silk fibroin radiative cooling film for energy-free thermal management for optoelectronics Ching Wen Hwang, National Tsing Hua University; Hsuen Li Chen, National Taiwan University	

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綠色化學 (Green Chemistry)

體育館 7F

SUN-PF-004 P06-0041	Achieving high performance Zn-Li hybrid ion Batteries via manipulating the solvation shell structure of deep eutectic electrolytes Shih-Che Lin, Chun-I Lee, National Kaohsiung University of Science and Technology
SUN-PF-005 P06-0042	High performance Pb-ion batteries with coulombic efficiency exceeding 99.96% from bimetallic eutectic electrolyte Ren-Jie Huang, Chun-I Lee, National Kaohsiung University of Science and Technology
SUN-PF-006 P06-0043	Exploration of the Electrical Conductivity and Antifreeze Characteristics in Zwitterionic Composite Hydrogels You-Sheng Zhang, Chung Yuan Christian University
SUN-PF-007 P06-0044	Amorphous CoNiFe Oxide Film as Highly Active Electrocatalysts for Oxygen Evolution Reaction and Urea Oxidation Reaction Shu Ting Chang, Tunghai University
SUN-PF-008 P06-0045	Studies of plating and stripping of Al metal in aqueous liquid electrolyte Zhen Chen, Tunghai University
SUN-PF-009 P06-0046	Application of Novel Freeze-Thaw Method in Green PVA/Rice Husk Ash Hydrogel Guan-Yu Chen, Ting Chen, Pin-Jui Lin, Cheng-Yuan Wu, Ping-Yu Chung, Yi-Hsuan Hung, Chia-Jung Cho, I-Shou University
SUN-PF-010 P06-0047	A Methanol Enhanced Urea Deep Eutectic Electrolyte for Zinc-ion Hybrid Supercapacitors Shi-Yuan Hu, Chun-I Lee, National Kaohsiung University of Science and Technology
SUN-PF-011 P06-0048	Carbon Nanofiber-supported Neatly-Arranged Nickel Single Atom Catalyst for CO₂-to-CO Conversion Meng-Cheng Chen, National Yang Ming Chiao Tung University
SUN-PF-012 P06-0049	Preparation Of Uniform PMMA Nano Microspheres Using Non- Surfactant Emulsion Polymerization Method For Application In Thin Film Materials Jung-Shan Hu, Tsung-Yen Tsai, Yeong-Yeong Chang, Chong- Xuan Liao, Chao-Chun Lin, Chung Yuan Christian University
SUN-PF-013 P06-0050	Reverse Boudouard Reaction for CO₂ to CO Conversion with Microwave Excitation Yu-Chieh Huang, Academia Sinica
SUN-PF-014 P06-0051	Fabrication of 3,3'-Diaminobenzidine Polymer Modified Fe₃O₄@SiO₂ Nanoparticles for Magnetic Isolation of Heavy Metal Ions from Contaminated Wastewater Zong-You Huang, Kaohsiung Medical University
SUN-PF-015 P06-0052	Controlled synthesis and characterization of β-FeOOH Sin Yu Chen, National Chiayi University; Yu Shan Wang, National Sun Yat-sen University; Jin-Ping Zheng, National Chiayi University
SUN-PF-016 P06-0053	Preparation of Nickel-Based Metal-Organic Frameworks with Different Iron Sources for Research on Anodic Catalysts in Water Electrolysis and Urea Aqueous Solution Zhen-Wei Hong, Chun-Jern Pan, National Kaohsiung University of Science and Technology
SUN-PF-017 P06-0054	Investigating the Potential of Conjugated Polymers Containing Isoindigo and Carbazole in the Photocatalytic Reduction of Carbon Dioxide Chin-Yi Chang, Yu-Ying Lai, National Taiwan University
SUN-PF-018 P06-0055	Catalytic carbon dioxide reduction using metal-organic framework MIL-53(Fe) through gas solid-phase photocatalysis Yi-Sin Lu, National Taipei University of Technology

March 31, 2024 (SUN)

09:00-10:30

綠色化學 (Green Chemistry)

體育館 7F

SUN-PF-019 **Efficient photocatalytic reduction of carbon dioxide using metal organic frameworks (Ni-MOF-74) composites with defective active sites**
P06-0056
Li-Hui Yu, National Taipei University of Technology

SUN-PF-020 **Bimetallic Metal Organic Framework for Efficient Oxygen Evolution Reaction**
P06-0057
Chun-Hao Chang, National Cheng Kung University

SUN-PF-021 **Hydrothermal microwave-assisted synthesis of BiOCl/rGO nanocomposites with enhanced visible light photocatalytic activity**
P06-0058
Jia-Siang Cao, National Pingtung University

SUN-PF-022 **One-step synthesis of MnFe₂O₄/rGO nanocomposites by microwave hydrothermal method and their electrochemical properties in supercapacitors**
P06-0059
Hui-Ying Tseng, National Pingtung University

SUN-PF-023 **Using carbon quantum dots(CQDs)@metal organic frameworks(ZIF-90) composite for high efficiency photocatalytic reduction of carbon dioxide**
P06-0060
Yi-Ting Syu, National Taipei University of Technology

SUN-PF-024 **Transfer-Free Graphene Grown with Camphor for Air Pressure Detection**
P06-0061
Bo-Siang Jhang, Yi-Chia Cheng, Yu-Yun Sun, Chih-Yu Lin, Yu-Lin Qiu, Chung Yuan Christian University; Meng-Lin Tsai, National Taiwan University of Science and Technology; Sheng-Kuei Chiu, Feng Chia University

SUN-PF-025 **Preparation and synthesis of PtNiW/rGO and its characterization in direct methanol fuel cells**
P06-0062
Chin-Jou Liu, Kun-Yauh Shih, National Pingtung University

SUN-PF-026 **Synthesis of Tropone Derivatives and Their Applications in Reversible-Deactivation Radical Polymerization**
P06-0063
Wei Huang, National Taiwan University

SUN-PF-027 **Lead-free Perovskite ((NH₄)₃Sb₂I₉)/Green Graphene Heterostructures for Photodetection Applications**
P06-0064
Yu-Yun Sun, Yu-Lin Qiu, Jian-Hong Du, Yu-Chi Hu, Bo-Siang Jhang, Heng -Yi Lin, Chung Yuan Christian University

SUN-PF-028 **Tungsten Nitride as Electrocatalysts for Reducing Nitrogen to Ammonia**
P06-0065
Yu Chu Chang, Chang Ming Jiang, National Taiwan University; Di Yan Wang, Cheng Chi Xiao, Tunghai University

SUN-PF-029 **Brown algae from various regions of Taiwan are used to synthesize green silver nanoparticles with antibacterial, antioxidant, and photocatalytic activities for multiple applications**
P06-0067
Yu-Hsien Liu, Min-Hsuan Tsou, National Taiwan Ocean University; Chun-Jen Su, National Synchrotron Radiation Research Center

SUN-PF-030 **Jammed Microgels in Deep Eutectic Solvents as a Green and Low-cost Ink for 3D Printing of Reliable Auxetic Strain Sensors**
P06-0068
Hieu Trung Vo, Phuc Khanh Lam, National Central University; Yu-Jane Sheng, National Taiwan University; Heng-Kwong Tsao, National Central University

SUN-PF-031 **Prolonging the cycle life of zinc metal in highly acidic electrolytes using the indium sulfate additive**
P06-0069
Ting Yu Wang, National Tsing Hua University

SUN-PF-032 **Ion-gel electrolyte coupled with sulfonated polyaniline (SPANI)//Zn electrodes for flexible energy storage devices: Enhancing anti-freezing capability, prolonged testing lifespan and chemical self-charging**
P06-0070
Chih-Hua Wang, Ming-Jay Deng, Providence University

March 31, 2024 (SUN)		
09:00-10:30	綠色化學 (Green Chemistry)	體育館 7F
SUN-PF-033 P06-0071	Integration of PEDOT//Zn electrode with novel ion gel electrolyte for high-lifespan, rapid self-charging, and smart electrochromic supercapacitors Nien-Wei Chou, Providence University	
SUN-PF-034 P06-0072	Synthesis of Fe₃O₄@MoS₂@CeO₂ Nanocomposite and Study on the Characteristics of Photocatalytic Degradation of Organic Dyes Chin-Ya Chiu, Pradeep Kumar, National Chung Hsing University; Ssu-yung Chung, Yu-Ching Huang, Ming Chi University of Technology	
March 31, 2024 (SUN)		
09:00-10:30	光電材料 (Photoelectronic Materials)	體育館 7F
SUN-PG-001 P07-0035	High Efficiency Photoelectrocatalytic Oxygen Generation Enabled by Ir-modified Gold Dendrites Electrodes Chih-En Tsai, Tunghai University	
SUN-PG-002 P07-0036	Synthesis of Zr₃S₂ nanoparticles on carbon cloth for Flexible Supercapacitor Yu-Xuan Wang, University of Taipei	
SUN-PG-003 P07-0037	Synthesis of High Thermally Stable Polyimides with a Low Dielectric Constant and Dissipation Factor Yueh-Hsing Lee, Jin-Wei Lin, Yu-Chen Huang, Yung-Jen Huang, Manohar Reddy Busireddy, National Yang Ming Chiao Tung University	
SUN-PG-004 P07-0038	Efficient Hydrogen Evolution Reaction Using Cu@Graphene Nanoparticles-decorated Co₃O₄ Nanoneedles Yixuan Lin, University of Taipei	
SUN-PG-005 P07-0039	An Electrochromic Thin Film Based on Corannulene-(triphenyl-amine)₅ and 3,4-ethylenedioxythiophene Copolymer Yu Chiao Ling, National Taiwan University	
SUN-PG-006 P07-0040	Fluorination of Star-Shaped Cyclopenta[2,1-b;3,4-b']dithiophene Derivatives and Its Application as Hole-Transporting Materials in Scalable Perovskite Solar Cell Fabrication by Bar Coating Zhe-Wei Wang, Soochow University	
SUN-PG-007 P07-0041	Designing indeno[1,2-b]quinoxaline with 2D and 3D functional groups for application in the passivation of perovskite solar cells Ying-Sheng Lin, Yuan-Jay Chang, Tunghai University	
SUN-PG-008 P07-0042	Liquid type electrochromic devices based on amino-substituted triphenylamine derivatives with multiple electroactive centers Yu-Jie Wang, National Taiwan University	
SUN-PG-009 P07-0043	Anion Effects on Photophysics, Electrochromic, and Electrofluorochromic Behaviors of Triphenylamine-based Pyridinium Salts Kai-Jhen Huang, National Taiwan University	
SUN-PG-010 P07-0044	From Blue To Red Emission: Arylamine-Based Wholly Aromatic Polyimides For Panchromatic Spectrum Emission Meng-Chang Hou, National Taiwan University	
SUN-PG-011 P07-0046	新型非對稱式結構之電洞傳輸層材料應用在鈣鈦礦太陽能電池之研究 Chun-Sheng Huang, Yan-Duo Lin, Soochow University	

March 31, 2024 (SUN)

09:00-10:30

光電材料 (Photoelectronic Materials)

體育館 7F

SUN-PG-012 **Low Amounts of Iridium on Dendritic Gold Electrode Surface Catalyst for Oxygen Evolution Reaction**

P07-0047

Yi-Ting Wang, Tunghai University

SUN-PG-013 **Multi-Resonance Fluorescence Emitters Based on Anthracene Unit**

P07-0048

I-Hsiang Wang, Yi-Ting Lee, Soochow University

SUN-PG-014 **Unraveling luminescent energy transfer pathways: futuristic approach of miniature shortwave infrared light-emitting diode design**

P07-0049

Kuan-Chun Chen, National Taiwan University

SUN-PG-015 **高效率穩定二維氟化五環雙噻吩電洞傳輸材料在太陽能電池之研究**

P07-0050

Yun-Shuo Liu, Yan-Duo Lin, Soochow University

SUN-PG-016 **Synthesis of Dithieno[3,2-a:2',3'-c]phenazine Base Hole Transport Materials for Application in Perovskite Solar Cells**

P07-0051

Yu-Hsin Kao, Chung Yuan Christian University

SUN-PG-017 **Efficient Perovskite Solar Cell using Blend Materials as Hole Transporting Material**

P07-0052

Chih-Jung Hsu, Chung Yuan Christian University

SUN-PG-018 **High-Quality Ta₃N₅ Photoanode for Photoelectrochemical Applications**

P07-0053

Chia-wei Chang, National Taiwan University

SUN-PG-019 **多氟取代五環雙噻吩之電洞傳輸層材料應用在鈣鈦礦太陽能電池研究**

P07-0054

Tzu-Jou Chang, Yan-Duo Lin, Soochow University

SUN-PG-020 **High stability FAPbBr₃ perovskite quantum dots with polymer encapsulation by low carbon green technology**

P07-0055

Po-Chun Li, National Taipei University of Technology

SUN-PG-021 **Revealing photoluminescence improvement of perovskite/ZIF-8 composite by using water and its potential applications**

P07-0056

Andi Magattang Gafur Muchlis, National Taipei University of Technology

SUN-PG-022 **Bicyclopentadithiophene-Based Organic Semiconductor for Stable and High-Performance Perovskite Solar Cells Exceeding 22%**

P07-0057

Arulmozhi Velusamy, Ming-Chou Chen, National Central University

SUN-PG-023 **Study of chemical surface morphology by atomic force microscope and reactive ion etching on commercial AlGa_N/Ga_N heterostructures**

P07-0058

Chun Yen Fu, Ji-Wei Ci, Meng-Ting Wu, Yuan-Chih Hung, Chia-Shain Chuang, Chung Yuan Christian University

SUN-PG-024 **Synthesis and optical applications of organic-inorganic multi-coating-layer encapsulation of formamidine-based perovskite quantum dots**

P07-0059

Ling-Hsuan Chung, National Taipei University Of Technology

SUN-PG-025 **Multifunctional Trifluoromethyl-Carbazole and Pyrimidine-Based D–A–D Materials: A Green Phosphorescent Host and Donor for the Green Exciplex Electroluminescence**

P07-0061

Premkumar Gnanasekaran, Tunghai University; Ya-Hsin Cheng, Jia-Fan Wu, Chih-Hao Chang, Yuan Ze University

SUN-PG-026 **Directly Growth of Ultrananocrystalline Diamond on Si (100) Substrates Using Hot Filament Chemical Vapor Deposition (HFCVD)**

P07-0062

Hao Chien, Wen-Chen Tseng, Li-Fang Yang, Chung Yuan Christian University; Meng-Lin Tsai, National Taiwan University of Science and Technology

March 31, 2024 (SUN)

09:00-10:30	光電材料 (Photoelectronic Materials)	體育館 7F
SUN-PG-027 P07-0063	Interfacial Layer Materials with a Truxene Core for Dopant-Free NiOx Based Inverted Perovskite Solar Cells Rajarithnam R Ramanujam, Academia Sinica	
SUN-PG-028 P07-0064	N-type organic materials of bis(1,5-diamide-2,6-diylidene)malononitriles(NBAM-C12) with TiO₂/Al₂O₃ dielectric layer Cheng-Yeh Wu, National Chi Nan University	
SUN-PG-029 P07-0065	Enhanced Photoresponse of Perovskite (CsPbBr₃) Quantum Dots (QDs) with Transfer-Free Graphene Yi-Chia Cheng, Chih-Yu Lin, Chia-Hsuan Tseng, Yu-Chi Hu, Bo-Siang Jhang, Chung Yuan Christian University	
SUN-PG-030 P07-0066	Push-pull type BfNA-based polyaromatic hydrocarbons for DSSC applications Tzu-Ling Ho, Providence University; Yu-Jie Wang, Sun Yat-sen University	
SUN-PG-031 P07-0067	Synthesis of the Mesoporous Silica SBA-15 for Application in Brand New Bi-Stable Smart Windows Shao-Heng Wong, Hui-Chi Wu, National Cheng Kung University	
SUN-PG-032 P07-0068	DFT calculations on the Electron Transfer Properties of Naphthalene Diimides Based Acceptors Jun-Hao Chang, National Taiwan University of Science and Technology	
SUN-PG-033 P07-0069	High-efficiency perovskite solar cell with two-step active layer in air Chien-Te Tsou, Shih-Han Huang, Ming Chi University of Technology	
SUN-PG-034 P07-0070	Highly stable quantum dots-metal-organic framework composite for applications in short-wave infrared photodetectors Yong-Yun Zhang, National Taiwan University	

March 31, 2024 (SUN)

09:00-10:30	奈米孔洞材料 (Nanoporous Materials)	體育館 7F
SUN-PH-001 P08-0015	Study on performance of curcumin-loaded water-soluble Fe₃O₄ nanoparticles Chengzhe Li, Chinese Culture University	
SUN-PH-002 P08-0016	Two-dimensional metal-organic framework nanosheets laminar composite membranes for efficient alcohol/water solution separation Yu-Ming Tseng, National Taiwan Normal University; Wei-Song Hung, National Taiwan University of Science and Technology; Chia-Her Lin, National Taiwan Normal University	
SUN-PH-003 P08-0017	Highly Photoluminescent and Stable Carbon Dots as Nanoprobes for mercury ion Detection Yi-Zhen Hung, Chung Shan Medical University	
SUN-PH-004 P08-0018	Synthesis of manganese silicate mesocellular foam via a hydrothermal restructuring process for catalytic decomposition of ozone Chun-Han Hsu, National Tainan Institute of Nursing	
SUN-PH-005 P08-0019	Exploring the Impact of Urea-Hydroxyapatite Hydrogel Nanofertilizers with Different Slow-Release Carriers on the Growth of Okra Plants Ming-Fu Hsieh, Feng Chia University	
SUN-PH-006 P08-0020	Atmospheric Pressure Plasma Synthesis of Nano-Silver-Graphene Oxide-Zeolite Composite Material and Its Application in Psychoactive Substance Detection Chi-Hung Lin, National Taiwan Normal University; Yung-Cheng Jair, National Taiwan University; Pin-Chuan Chen, National Taiwan University of Science and Technology; Pai-Shan Chen, National Taiwan University	

March 31, 2024 (SUN)		
09:00-10:30	奈米孔洞材料 (Nanoporous Materials)	體育館 7F
SUN-PH-007 P08-0021	Novel Metal-Organic Framework as High Performance Bifunctional Electrocatalysts for Water Electrolysis Hsuan Feng, Chun-Lung Huang, and Chen-Hsiung Hung, Academia Sinica	
SUN-PH-008 P08-0022	Comparison Of The Application Of Silica Nanoparticles Synthesized From Different Silicon Sources In Active Packaging Hsien-Yu Lin, National Taiwan Ocean University	
SUN-PH-009 P08-0023	Evaluation of Polymer Gel Electrolytes for Application in MnO₂ Symmetric Flexible Supercapacitors Ko-Chen Chang, Providence University	
SUN-PH-010 P08-0024	Active Carbon from Used Coffee Grounds Functionalized with Sulfonic Acid as Catalyst for Pechmann Condensation Sheng Wei Wu, National Central University	
SUN-PH-011 P08-0025	The synthesis of mesoporous silicas SBA-1 with amino group modification and its use as hydrogen production through the hydrolysis of NH₃BH₃ PEII YEN, National Central University	
SUN-PH-012 P08-0026	Bioinspired Prolonged Lifespan Enhancement of Wearable Smart Batteries with Chemically Self-Powered Utilizing Sulfonated Polyaniline (SPANI)//Zn Electrodes and Ion Gel Electrolyte Yi-Xuan Chen, Providence University	
SUN-PH-013 P08-0027	A Green and Ultrafast One-pot Mechanochemical Approach for Efficient Biocatalyst Encapsulation in MOFs: Insights from Experiments and Computation Khanh Phuc Lam, Trung Hieu Vo, Jing-Hui Chen, National Central University; Shang-Wei Lin, Fu Jen Catholic University; Heng-Kwong Tsao, National Central University; Hsiao-Ching Yang, Fu Jen Catholic University; Fa-Kuen Shieh, National Central University	
March 31, 2024 (SUN)		
09:00-10:30	產業應用 (Industrial Application)	體育館 7F
SUN-PI-001 P10-0013	Greenhouse gas inventory and wisdom emission reduction strategies - a hard anodizing plant as an example Yu-Liang Hsiao, National Chin-Yi University of Technology	
SUN-PI-002 P10-0014	Fabrication of Large-Area and High-Quality Pure Ge on Si Substrate Yi-Ting Guo, Chung Yuan Christian University	
SUN-PI-003 P10-0015	Pulsed Potential CO₂ Electroreduction of Cuprous Oxide Nanowires Boosts the Ethanol Selectivity Yi-Yu Chen, National Yang Ming Chiao Tung University	
SUN-PI-004 P10-0016	Strengthening adhesion in electroless copper plating on liquid crystal polymer substrate via Ag nanoparticle activation and surface modification Chi-Cheng Hung, National Tsing Hua University	
SUN-PI-005 P10-0017	Study on Selective Sorption and Immobilization Process of Cs from Radioactive Wastewater Based on Natural Zeolite Qi-Rui Sun, National Central University; Pei-Tung Hsueh, Chuan-Pin Lee, National Tsing Hua University; Hui-Min Chiu, National Tsing Hua University/Yuanpei University of Medical Technology; Ching-Yuan Liu, National Central University; Shih-Chin Tsai, Neng-Chuan Tien, National Tsing Hua University	
SUN-PI-006 P10-0018	Synthesis of low-temperature H₂-preactivated catalysts with non-noble metal for hydrogenation reactions Fei-Chien Hsu, Yun-Hsuan Tsai, Yi-Ching Huang, National Cheng Kung University	

March 31, 2024 (SUN)

09:00-10:30

產業應用 (Industrial Application)

體育館 7F

SUN-PI-007 Green Synthesis of MnO_x/Al_2O_3 Catalyst for NF_3 Decomposition and H_2 -SCR Reaction

P10-0019 Chien-Teng Lin, Tien-Jen Chu, Guan Wei Li, National Cheng Kung University

SUN-PI-008 Syntheses and Characterization of Polyimides with Polydimethylsiloxane on the Main chain

P10-0020 Hui-Wen Chen, Wei-Cheng Chen, Shiao-Wei Kuo, National Sun Yat-Sen University

SUN-PI-009 Nucleic Acid Delivery to Fish Cells Using Cationic Carbon Nanovesicles: Potentials For Fish Vaccination

P10-0021

Ren-Siang Wu, Chang Gung University; Chih-Ching Huang, National Taiwan Ocean University; Kuan-Ting Chuang, National Taiwan University

SUN-PI-010 Development of Manufacturing Process of Nylon Resin Monomers in Circular Economy Ecosystem World

P10-0022

Hsin-lung Lee, Lin-Chiang Sherlock Huang, Ming-Yu Huang, CPC Corporation, Taiwan

SUN-PI-011 Machine learning applied to identification of biomarker fingerprints

P10-0023

Shih-Chia Lin, Liang-Jian Shiau, CPC Corporation, Taiwan; Lie-Fen Lin, Hwai-Jung Hsu, Feng Chia University; Wen-Tzu Tseng, Hui-Jane Mo, In-Tian Lin, CPC Corporation, Taiwan

SUN-PI-012 Inorganic Element Composition Study of Cold Seep Carbonate Rock

P10-0024

Shih-Kuo Yeh, Jing-Hung Hsu, Shih-Chia Lin, Yu-Shain Gou, In-Tian Lin, CPC Corporation, Taiwan

SUN-PI-013 Extraction method for carbon-containing polymers in rocks

P10-0025

Jing-Hung Hsu, Shih-Chia Lin, Shi-Guo Ye, Hui-Jane Mo, In-Tian Lin, CPC Corporation, Taiwan