

Poster Session 2	
Posting Time: 08:00-09:00, March 8th (GMT+8)	
Presentation Time: 09:45-11:00, March 8th (GMT+8)	
Removal Time: 14:00-15:00, March 8th (GMT+8)	
SUN-PS2-001 P2-0001	A Computational Study of the Electron Detachment Energies of the TiO₃⁻ Anion Yung-Ching Chou, University of Taipei
SUN-PS2-002 P2-0003	DFT Investigation of CO₂ Reduction Reaction on BN-Supported Single-Atom Catalysts Guanxing Chen, 中原大學
SUN-PS2-003 P2-0004	The Way Impedance Spectroscopy Bridges Material Properties and Device Performance Po-Kai Kung, National Chi Nan University
SUN-PS2-004 P2-0005	Phase-Resolved Raman Spectroscopy of Ferroelectric, Antiferroelectric, and Paraelectric SbSI and Photocatalytic CO₂ Reduction Pathways via In-situ Raman Spectroscopy Tzu-Yu Tzeng, National Tsing Hua University, Hsinchu 30013, Taiwan
SUN-PS2-005 P2-0006	Triplet-State Dynamics and Energy Transfer of Hemicyanine Dyes DAPy and DAPy-I in Polymer Film and Solvent Huang Hao Chun, 國立清華大學
SUN-PS2-006 P2-0007	Investigation of Dynamic and Electronic Structure of New NIR-II Dyes by Fluorescence Optical Gating 許澤化, 國立清華大學
SUN-PS2-007 P2-0009	High-Performance Mg–O₂ Batteries Enabled by Electrospinning PVDF-HFP-based Quasi-Solid-State Polymer Electrolyte Vasantan Rasupillai Dharmaraj, National Taiwan University
SUN-PS2-008 P2-0010	Interplay Between Solvent Environment and Electronic Substitution on the Excited-State Dynamics of iron(II) Tris-Bipyridine Complexes Chin-Chia Ho, National Sun Yat-sen University
SUN-PS2-009 P2-0011	Quasi-Solid-State Polymer Electrolyte with a Room Temperature Conductivity of 2.6 mS cm⁻¹ for Long-Life Rechargeable Mg–O₂ Batteries Ayan Sarkar, National Taiwan University
SUN-PS2-010 P2-0012	Mechanistic Insights into Excitation Energy Transfer in Red Algal Phycobilisomes Yun-Chung Yang, National Taiwan University
SUN-PS2-011 P2-0013	Oxidative Evolution and Red-Shift of Oxygen Quantum Defects in Single-Walled Carbon Nanotubes Vo Minh Thuy, Institute of Atomic and Molecular Sciences
SUN-PS2-012 P2-0014	Anode Engineering Using Hybrid AlCl₃/PTHF Coating for Enhanced Electrochemical Stability of Mg–O₂ Batteries Yueh-An Wu, 國立臺灣大學
SUN-PS2-013 P2-0015	Using time-resolved Velocity Map Imaging Spectroscopy to Investigate Isotope Effects on the Roaming Pathway in the Photodissociation of H₂CO and D₂CO

	Jhih-Jie Huang, 國立中山大學
SUN-PS2-014 P2-0016	Creating Different Fluorescence Defects in Carbon Nanotube Structure Using Various Surfactants Ying Xuan Li, Academia Sinica
SUN-PS2-015 P2-0018	Halide-driven Modulation of Self-Trapped Exciton Emission in Mixed-Halide Cs₂Ago.6Na_{0.4}Ino.8Bio.2Cl₆-XBrX Double Perovskites Niwan Gunawardana, National Sun Yat-sen University
SUN-PS2-016 P2-0019	Integrated Optical Photothermal Infrared, Fluorescence, and Raman Microscopy for Multimodal Chemical Imaging of Advanced Materials Li-Wei Chou, National Sun Yat-sen University
SUN-PS2-017 P2-0020	Probing Molecular Interactions in Deep Eutectic Solvents by Chemical Exchange Saturation Transfer (CEST) NMR Yi Jou Chung, National Chung Cheng University
SUN-PS2-018 P2-0021	Theoretical Study of the Photoelectron Spectra of Acetic Acid Using a Hybrid Model of Harmonic and Anharmonic Oscillators Hsiang Hung Yao, National Taichung University of Education
SUN-PS2-019 P2-0022	Theoretical Study of the Anion Photoelectron Spectrum of FCO₂- Yu-De Leu, National Taichung University of Education
SUN-PS2-020 P2-0023	Hierarchical Structural Analysis of G-quadruplex Supramolecular Hydrogels Using SWAXS-based Structural Modeling Kuanhsuan Su, 國家同步輻射研究中心
SUN-PS2-021 P2-0024	Theoretical Study of the Photoelectron Spectrum of pyridine N-oxide Yue Sin Su, National Taichung University of Education
SUN-PS2-022 P2-0025	Theoretical Study of the Photoelectron Spectrum of 4-cyanopyridine N-oxide Yu-Han Lai, National Taichung University of Education
SUN-PS2-023 P2-0026	The Effect of Protein-Enhanced Laccase-Like Activity of Copper Ions Feng Hsien Liu, 天主教輔仁大學
SUN-PS2-024 P2-0027	An Exceptional Water Stable (Cu-S)_n Hydrogen-Bonded Organic Frameworks for Selective Detection of Glyphosate Chia Ying Lee, 天主教輔仁大學
SUN-PS2-025 P2-0028	Theoretical Study of the Photoelectron Spectrum of Pyrazine Yen-Chun Wang, National Taichung University of Education
SUN-PS2-026 P2-0029	Signal Differences of Various Lanthanide Metals in CEST Yu-Jui Tung, National Chung Cheng University
SUN-PS2-027 P2-0030	Unique Hyper-Raman Signal of Sugars in Phosphate-Buffered Saline Yihuan Chuang, 陽明交通大學
SUN-PS2-028 P2-0031	Theoretical Study of the Photoelectron Spectra of Formic Acid and Its Deuterium Isotopologues Using a Hybrid Model of Harmonic and Anharmonic Oscillators Chia-Yi Lai, National Taichung University of Education
SUN-PS2-029 P2-0032	Plasmon-Enhanced Enantioselective Crystallization of Ethylenediamine Sulfate via Optical Trapping Chia-Chi Chang, National Yang Ming Chiao Tung University

SUN-PS2-030 P2-0033	Plasmonic Trapping-Induced Cocrystallization of Acetaminophen and L-Phenylalanine Using Gold Nanoparticles and Nanostructures Qing Yu Zhang, National Yang Ming Chiao Tung University
SUN-PS2-031 P2-0034	Enantiomer-Specific Control of Cocrystallization via Circular Polarization in Optical Trapping Wen-Chi Wang, National Yang Ming Chiao Tung University
SUN-PS2-032 P2-0035	Effect of Domain Swapping on Amyloid Fibril Formation of an Antibody Light Chain Investigated by Optical Trapping Bing-Ru Lin, 陽明交通大學
SUN-PS2-033 P2-0036	Silicon Nanoparticle-Mediated Optical Trapping Modulation of Enantioselectivity of Supramolecular Photocyclodimerization of 2-Anthracenecarboxylic Acid in the Presence of γ-Cyclodextrin Chiao-Hsin Chen, National Yang Ming Chiao Tung University
SUN-PS2-034 P2-0037	Gold Nanoparticle Size-Dependent Enantioselective Switching in Chiral Crystallization of Sodium Chlorate via Optical Vortex Beams Yin-Shan Wang, National Yang Ming Chiao Tung University
SUN-PS2-035 P2-0038	Theoretical study of the photoelectron spectra of pyridazine, pyrimidine, 1,3,5-triazine, and sulfur dicyanide Chen-Chih Chang, National Taichung University of Education
SUN-PS2-036 P2-0039	Interfacial Synthesis of Cs₂PtCl₆ Perovskite for Strong Coupling with V₄C₃T_x MXene toward Efficient Hydrogen Evolution and Urea Oxidation Muhsin Punnoli, National Taiwan University
SUN-PS2-037 P2-0040	Ab Initio Molecular Dynamics and Raman Spectroscopic Study of Intermolecular Interactions in Phenol/Choline Chloride Deep Eutectic Solvent Chih-Chun Chang, National Chung Cheng University
SUN-PS2-038 P2-0041	Liquid Structures of ChCl-Cresol and Betaine-Carboxylic Acid Deep Eutectic Solvents Studied by Ab-Initio Molecular Dynamics Simulation and Raman Spectroscopy Yu Chih Huang, 國立中正大學
SUN-PS2-039 P2-0042	Theoretical Study of the Photoelectron Spectra of Three Substituted Pyridine N-oxides Yi-Xin Chen, National Taichung University of Education
SUN-PS2-040 P2-0043	Scar-reduction Wound Healing Effect of Natural Cyclic Peptide Mallotumide A May Be Facilitated by Inhibiting Integrins and Modulating Transforming Growth Factor Chia Hsin Yang, National Sun Yat-sen University
SUN-PS2-041 P2-0044	Theoretical Study of the Photoelectron Spectrum of 1,2,4,5-tetrazine Yiting Cai, National Taichung University of Education
SUN-PS2-042 P2-0045	Raman Characterization for Vibrations of Aqueous Methanediol and Its Oligomers Yuan-Pin Chang, National Sun Yat-sen University

SUN-PS2-043 P2-0046	Oxidative Aging and Transformation Mechanisms of Plastic Micro-Particles under Environmental Conditions Yu Chi Hsieh, 國立中山大學
SUN-PS2-044 P2-0047	Nonlinear Effect of Optical Trapping by Femtosecond Laser You-Cheng Huang, National Kaohsiung Normal University
SUN-PS2-045 P2-0048	A Dodecagonal Quasicrystal as a Tunable Metastable Junction: Regulating Competing Frank-Kasper Phases via Micellar Core Engineering Mayumi Egashira, National Taiwan University
SUN-PS2-046 P2-0049	Photocatalytic Degradation of Tetracycline Using Mg-ZnO@HNT Composite Materials Yang Shiang Ming, 國立中山大學
SUN-PS2-047 P2-0050	Atomic Force Microscopy Analysis of Skeletal Mechanical Properties of Different Coral Species Under Polyethylene Microplastic Exposure Yan Cih Lin, 國立中山大學
SUN-PS2-048 P2-0051	Tracking Conducting Oxygen Ions in Solid Oxide Fuel Cell Electrolytes by NAP-XPS Po-Chiao Li, 同步輻射研究中心
SUN-PS2-049 P2-0052	CO₂ adsorption in Deep Eutectic Solvent (DES): Insights from Chemical Exchange Saturation Transfer (CEST) Hsiu-Ching Fan, National Chung Cheng University
SUN-PS2-050 P2-0053	Establishment of Ultrafast Chemical Exchange Saturation Transfer (UF-CEST) to Investigate Changes in Protein Expression Induced by Rapamycin and FBS in HepG2 cells Yu Jie Liu, National Chung Cheng University
SUN-PS2-051 P2-0054	Theoretical Study of the Photoelectron Spectrum of 4-methylpyridine N-oxide Ruo-yu Wang, National Taichung University of Education
SUN-PS2-052 P2-0055	Theoretical Study of the Photoelectron Spectrum of 4-nitropyridine N-oxide Yu-Chi Liu, National Taichung University of Education
SUN-PS2-053 P2-0056	Structure and Dynamics of Cyclic Peptide S1 and Its Potential as Antagonist of Cancer Growth Driver CXCR4 Chun Wei Huang, National Sun Yat-sen University, NSYSU
SUN-PS2-054 P2-0057	Wavelength-dependent Roaming Dynamics in the Photodissociation of Formaldehyde Probed by Time-Resolved Velocity Map Imaging Inuri Rasangi De Silva, National Sun Yat Sen University
SUN-PS2-055 P2-0058	Evaluation of Cyclic Peptide L1 as a Candidate Inhibitor of Chemokine Receptor CXCR4 Yu-Wen Peng, National Sun Yat-sen University
SUN-PS2-056 P2-0059	Make Mangiferin Soluble in Water by Using a Food Additive as Solubilizer Kuok Fai Li, National Chiayi University
SUN-PS2-057 P2-0060	Understanding Retention and Effects of Carbon Quantum Dots in Sulfonated PVA Proton Exchange Membranes Ming-Tse Lai, 國立中山大學

SUN-PS2-058 P2-0061	Carbon Quantum Dots Synthesized from Citric Acid and Urea: Towards a Precise Mechanistic Understanding Kuei-Miao Chen, 國立中山大學
SUN-PS2-059 P2-0062	Using Polarization-Dependent 2D Electronic Spectroscopy to Reveal Hidden Vibronic Mixing in Photosynthesis System Ting-Chien Ho, 台灣大學
SUN-PS2-060 P2-0063	Nanosecond Pulsed Laser-Induced Ablation and Photochromism of 4-Amino-4'-(N, N-dimethylamino)stilbene Microcrystals in Aqueous Solution Meng-Chiao Tsai, National Taitung University
SUN-PS2-061 P2-0064	The Absorption Measurement of a Single Plasmonic Nanoparticle Yi-Chun Chen, National Kaohsiung Normal University
SUN-PS2-062 P2-0065	Water Swelling Pristine and Modified Proton Exchange Membrane Nafion 117 Pohan Chen, National Sun Yat-sen University
SUN-PS2-063 P2-0066	Laser-Triggered Fluorochromic Behavior in Single Crystal of Trans-4-(Dimethylamino)-4'-Nitrostilbene (DANS) Huang Qian-Yun, National Taitung University
SUN-PS2-064 P2-0067	Nanoporous AAO-Based SERS Substrate for Sensitive Dopamine Detection in Complex Matrices Xin-Yuan Lin, 國立中山大學
SUN-PS2-065 P2-0068	A Theoretical Study on the Light-Harvesting Dynamics in the PSI-LHCI Supercomplex Chiao-Yuan Hung, National Taiwan University
SUN-PS2-066 P2-0069	Sub-Nanometer Carboxylate Zwitterionic Monolayer on Oxide-Free Silicon (111) via On-Surface Quaternization Reaction Lin Yi Jen, China Medical University
SUN-PS2-067 P2-0070	Creating Fluorescent Defects in Single-Walled Carbon Nanotubes by Sonochemistry Han-Sheng Sun, Academia Sinica
SUN-PS2-068 P2-0071	First-Principles Insights into Electrochemical Methanol Oxidation on Graphene-Supported Nickel Clusters with Varied Dopants (X = B, P, S, and Se) Kai-Han Shao, Chinese Culture University
SUN-PS2-069 P2-0072	High-Density Pt₁-PTA Single-Atom Catalysts on Functionalized Carbon Nanotube Electrodes for Catalytic Mechanistic Studies Ching-Hao Hsieh, National United University
SUN-PS2-070 P2-0073	Mechanistic Insights into the Morphological Etching of Silver Nanoparticles by Oxidants and halide-like Ions Zhi-Qing Zhang, 嘉義大學
SUN-PS2-071 P2-0074	Effect of Molecular Structure on the Etching Resistance of Silver Nanoplates Jun-Sheng Wu, National Chiayi University
SUN-PS2-072 P2-0075	Explore the Conformational Space of Synthetic Amphiphiles by Hydration Cheng Ku Cheng, 國立臺灣大學

SUN-PS2-073 P2-0076	One-Step Photochemical Synthesis of Thermoresponsive Gold-Polymer Hybrid Nanogels with Tunable Morphologies and Catalytic Properties Meng-Jie Wu, 中央研究院
SUN-PS2-074 P2-0077	High-Density Pt/Ni Bimetallic Single-Atom Catalysts on Polyoxometalates for Enhanced Photocatalytic Hydrogen Evolution Je-Wei Chang, National United University
SUN-PS2-075 P2-0078	Design and Characterization of a High-Uniformity Continuous Flow Photoreactor: A Case Study of DTDCI Degradation for Kinetic Analysis by UV/H₂O₂ Advanced Oxidation Processes Shao-En Lin, 國立清華大學
SUN-PS2-076 P2-0079	Investigating the Dynamics of Human Serum Albumin at Different Chemical Denaturation Stages Using a Temperature-Jump Method Pin Hsuan Chu, 國立清華大學
SUN-PS2-077 P2-0080	Switching the Reactive Species upon Photolysis of Aerated Persulfate (S₂O₈²⁻) Solution via pH Adjustment Min-Cheng Hsieh, 國立清華大學
SUN-PS2-078 P2-0081	Conformation-Guided Donor-Acceptor Coassembly into Hierarchical Lamellae with Molecular-Level Alternating Layers Bing-Jun Zhong, National Taiwan University
SUN-PS2-079 P2-0082	Field-Driven Asymmetry: Constructing Adaptive Funnel-Like Artificial Water Channels Mao-Yan Wang, National Taiwan university
SUN-PS2-080 P2-0083	G-quadruplex Topology Dictates the Binding Mode and Photophysical Mechanism of Thioflavin T Yi-Ting Liao, 國立屏東大學
SUN-PS2-081 P2-0084	Water-Mediated Electronic Modulation in Boron–Nitrogen Multi-Resonance TADF Emitters ChenYu Lin, 國立臺灣大學
SUN-PS2-082 P2-0085	Study the Competitive Mechanisms of Spontaneous Oxidation Reduction Reaction and Galvanic Replacement for Ag Nanoparticle-Based Chemical Reaction Yong-Hong Huang, Chinese Culture University
SUN-PS2-083 P2-0086	Probing the Mechanism of Single-Atom Catalysis with Pt₁-PTA on Branched TiO₂ Hui-Yu Liu, National United University
SUN-PS2-084 P2-0087	Molecular Length vs Reactivity for Room Temperature Formation Alkynyl Monolayer Formation on Hydrogen-Terminated Silicon Wang Yi Han, China Medical University
SUN-PS2-085 P2-0088	Nanoscale Quantum Sensing in Semiconductor Devices Enabled by Ultrathin Fluorescent Nanodiamonds Films Yi-Mu Tsui, Academia Sinica
SUN-PS2-086 P2-0089	DFT-Based Free-Energy Analysis and Complementary Pairing Strategy for CNT-Supported Cathode Catalysts in Li-Air Batteries

	Yi-Chen Li, Chinese Culture University
SUN-PS2-087 P2-0090	Unveiling the Acidity Flip and Proton Transfer Dynamics in the Three-Stage Nucleation of ZIF-8: An Integrated In-Situ SWAXS and Multiscale Simulation Study Jyun-Hao Chen, National Tsing Hua University
SUN-PS2-088 P2-0091	Machine Learning-Assisted Small- to Wide-Angle X-Ray Scattering Combined with Molecular Dynamics Simulation: A Demonstration via the ZIF-8 System Shang-En Chung, National Tsing Hua University
SUN-PS2-089 P2-0092	Kinetic Selectivity in Ligand-Induced G-quadruplex Folding: Studying the Structural Role of Flavonoids with Fluorescence Correlation Spectroscopy Chia Hua Kuo, National Pingtung University
SUN-PS2-090 P2-0093	Unveiling the Early-Stage Folding Dynamics of i-motif DNA by Fluorescence Lifetime Correlation Analysis Shang Ti Lin, National Pingtung University
SUN-PS2-091 P2-0094	Mechanistic Insights into the Three-Stage Nucleation and Growth of Donor-Functionalized MOFs via Operando X-ray Scattering Analysis Po-CHen Wu, National Tsing Hua University
SUN-PS2-092 P2-0095	Enhanced CO₂ Reduction Photocatalytic Performance of by Using Perovskite and Tin Sulfide Nanocrystal Heterojunction Atul Hanmant Bhosale, National Yang Ming Chiao Tung University
SUN-PS2-093 P2-0096	Brush Polymer Hydrogels as Architecturally Defined Polymer Networks Guan-You Lin, National Taiwan University
SUN-PS2-094 P2-0097	Atomic-Scale Site Engineering Switches HER and CO₂RR on Cu/g-C₃N₄ Wan-Ting Chen, 國家同步輻射研究中心
SUN-PS2-095 P2-0098	Synthesis and Characterization of Polyether-Based Magnetic Resonance Imaging Contrast Agents Lian-Jun Chen, 中山大學
SUN-PS2-096 P3-0001	The Elemental Analysis of RFCC Catalysts via Tetrafluoroboric Acid Microwave Digestion Wei-Ting Chou, Refining & Manufacturing Research Institute, CPC Corporation, Taiwan
SUN-PS2-097 P3-0002	Short-wave Near Infrared Hyperspectral Imaging for Single-Wall Carbon Nanotube-Based Biosensors Ai-Phuong Nguyen, Institute of Atomic and molecular Sciences, Academia Sinica
SUN-PS2-098 P3-0005	Application of LC-MS-Based Metabolomics and Proteomics for Bee Pollen Authentication and Food Fraud Prevention Ya, Ting Pan, National Chung Hsing University
SUN-PS2-099 P3-0006	Exploring Tb³⁺-mediated Interactions with Glutathione-Capped Gold Nanoclusters to Develop a Fluorophore-Modified Ratiometric Probe Toward Lactoferrin Chun-Hsin Kuo, National Sun Yat-sen University
SUN-PS2-100 P3-0007	SWATH-based Comparative Proteomic Analysis of Leaf Color Mutants at the Seedling Stage in Oryza Sativa

	Han-Sheng Chiou, National Chung Hsing University
SUN-PS2-101 P3-0008	Certification of Metabolites of Taiwan Oriental Beauty Oolong Tea Wei-Chen Wang, 國立中興大學
SUN-PS2-102 P3-0009	Trypsin-synthesized Gold Nanoparticles for Highly Selective Colorimetric Detection of Cartap Chien-Yi Lin, 國立臺東大學
SUN-PS2-103 P3-0010	A Flexible CO₂ Gas Sensor Made of Amine-Modified Graphene Oxide and Polypyrrole Microparticles Composite Operating at Room-Temperature Lai Yi-Hui, 中國文化大學
SUN-PS2-104 P3-0011	One-pot Hydrothermal Synthesis of Carbon Dots as On-Off-On Fluorescent Probes for Sensitive Detection of Mercury(II) Ions and Cartap Jui Hung Tseng, National Taitung University
SUN-PS2-105 P3-0012	Analysis and Characterization of Aromatic Steranes in Petroleum Chun-Chia Hsu, 台灣中油探採研究所
SUN-PS2-106 P3-0013	Small-scale Extracellular Glycoproteomic Analysis Using Integrated Microfluidic Chip and Mass Spectrometry Yibrehu Bogale Dibabe, Academia Sinica
SUN-PS2-107 P3-0014	Novel MIL-101(Fe)-NH₂@Tp-DAAQ Composite for Green Extraction and UHPLC-MS/MS Analysis of Endocrine Disruptors Yan-Zhen Chen, Fu Jen Catholic University
SUN-PS2-108 P3-0015	Electrochemical Sensor Based on a Deep Eutectic Solvent Molecularly Imprinted Polymer with Reduced Graphene Oxide for 5-Aminosalicylic Acid Detection An-Lun Liu, Soochow University
SUN-PS2-109 P3-0016	Synthesis and Electrochemical Characterizations of Zr-NaNFM Cathode Material for Sodium Ion Battery Chang Hong Wu, 輔仁大學
SUN-PS2-110 P3-0017	Gas Sensing Applications of Luminescent Laponite-Based Nanocomposite Double-Network Hydrogels Guo-Zen Song, 國立台灣大學
SUN-PS2-111 P3-0018	Preparation of Gold-Silver Bimetallic Catalysts by Galvanic Replacement Reaction for Nitrate Catalysis Hong Yi Lu, 東吳大學
SUN-PS2-112 P3-0019	Rapid Quantification for Sudan red I by Molecular Imprinting Polymer-Based Pretreatment Integrated with a Thin-Layer Chromatographic Chip Xuan-Yun Chen, Fu Jen Catholic University
SUN-PS2-113 P3-0020	Silver Electrodeposition and Recovering Silver from Silver Oxide Coin Battery Using Hydrophobic Brønsted-Lowry Acidic Ionic Liquid as the Electrolyte Yi-Chen Wang, Kaohsiung Medical University
SUN-PS2-114 P3-0021	An Aptamer-Based Hollow Fiber Microextraction Strategy for Rapid Mycotoxin Detection in Food by MALDI-MS Jhih-Shan He, National Chung Hsing University

SUN-PS2-115 P3-0022	Design of a Homogeneous DNA Keypad Lock Based on Flap Endonuclease 1–Catalyzed Reactions Yi-An Su, National Sun Yat-sen University
SUN-PS2-116 P3-0023	Blood ESAT-6 Quantification for Pulmonary Tuberculosis: A Clinical Case–Control Validation Study Xiu-An Ye, 輔仁大學
SUN-PS2-117 P3-0024	Detection of White Spot Syndrome Virus Using Surface-Enhanced Raman Nanoprobes and Magnetic Nanoparticles on EWOD Platform Pei Chen Jen, 國立中正大學
SUN-PS2-118 P3-0025	A Systematic Compilation of Single-Wall Carbon Nanotubes Quantum Yields Ngoc Khanh Tran, Institute of Atomic and Molecular Sciences Sinica Academia
SUN-PS2-119 P3-0026	Paper-Based Microfluidic Resistive Sensor Composed of (Cu-S)_n MOF-Polyaniline for Detection of Early Secreted Antigenic Target 6 kDa Protein Yi-Hua Lu, Fu Jen Catholic University
SUN-PS2-120 P3-0027	Acquisition of MS² and MS³ Tandem Mass Spectra for the Annotation of Novel Metabolites Kuan Yu Chen, Chang Gung University
SUN-PS2-121 P3-0028	(Cu–S)_n MOF–Polyaniline Electrochemical Sensing Platform for Urinary Detection of ESAT-6 Shi-Han Chen, Fu Jen Catholic University
SUN-PS2-122 P3-0029	A Computational Study of CO₂ Reduction on N-Doped Graphene Supported Single- and Dual-Copper Atomic Sites Chih Hsien Peng, 中國文化大學
SUN-PS2-123 P3-0030	Integrating Metabolomics Technology to Establish a Screening Platform for Destruxins Pathogenic Factors Based on Fall Armyworm Hui Ying Hsu, National Chiayi University
SUN-PS2-124 P3-0031	Monitoring Aggregation in Unsorted and Well-sorted SWCNTs using Variance Spectroscopy Rifqi Fajar Maulana, Academia Sinica
SUN-PS2-125 P3-0032	Aqueous Two-Polymer Phase Extraction and Purification of Single-Wall Carbon Nanotubes for (8,3) Species Yan-Ting Lai, Academia Sinica
SUN-PS2-126 P3-0033	Qualitative and Quantitative Investigation of Molecular Orientation in Self-Assembled Monolayers Yu-En Chen, National Taiwan University
SUN-PS2-127 P3-0034	Liquid Crystal Anchoring on the Metal-Doped Zinc Oxide Nanoparticle–Modified Surfaces for Gas Detection Muhammad Umer Saeed, National Taiwan University, Taiwan
SUN-PS2-128 P3-0035	Development of an Electrochemical Sensor Based on Molecularly Imprinted Polymers and Multi-walled Carbon Nanotubes for the Detection of Carbendazim Chi Hao Huang, National Chi Nan University
SUN-PS2-129	4D-Printed Cadmium-Responsive Rolling Needle Panel Meter

P3-0036	Yu-Siou Liao, National Chung Hsing University
SUN-PS2-130 P3-0037	4D-Printed NIR-Actuated Stream Selector Enabling Automated Solid-Phase Extraction of Multiple Trace Metals Yu Hsuan Yu, National Chung Hsing University
SUN-PS2-131 P3-0038	NIR-Manipulated 4D-Printed Temperature-Responsive Monolithic Hydrogel for Online Speciation of Inorganic Cr, As, and Se Yi-Ting Chen, National Chung Hsing University
SUN-PS2-132 P3-0039	Enhancing Photocatalytic Hydrogen Evolution via Noble Metal Doping on MIL-125-NH₂ (TiO₂) Chao Yi, Anson Ting, National Changhua university of education
SUN-PS2-133 P3-0040	Combination of Iron-Doped Carbon Dots and Ascorbic acid as Antibacterial Agents against Drug-Resisted Pathogenic Bacteria Po-Hung Cheng, 國立陽明交通大學
SUN-PS2-134 P3-0041	Melamine-Derived Nitrogen-Doped Carbon Dots as Antibacterial Agents against Pathogenic Bacteria Pin Chen Pan, National Yang Ming Chiao Tung Univeristy
SUN-PS2-135 P3-0042	Multimodal Microscopic Characterization of Graphene Oxide Jou-Chen Yeh, 國立成功大學
SUN-PS2-136 P3-0043	Selective Detection of hIAPP Amyloid Aggregates via a Conformation-Sensitive Peptide-Based AIE Probe Shu-An Shih, National Taiwan Normal University
SUN-PS2-137 P3-0044	Force-Induced Structural Ordering in Guanosine Monophosphate-Based Hydrogels Yao Ming Tang, 國立陽明交通大學
SUN-PS2-138 P3-0045	Protamine-Directed TiO₂-SiO₂ Photocatalysts from Rice Husk Ash with Enhanced Dye Removal Performance Yen-Ting Sung, National Yang Ming Chiao Tung University
SUN-PS2-139 P3-0046	Cation Effects on the Guanosine Monophosphate Chiral Assembly and Optical Properties Tzu-Fan Yang, National Yang Ming Chiao Tung University
SUN-PS2-140 P3-0047	An Integrated LC-ESI-QTOF-MS/MS Workflow for Identifying In-Source Fragmentation in Nontargeted Lipidomics Yu-Hsi Tien, National Taiwan University
SUN-PS2-141 P3-0048	Fabrication and Application of Sensitive, Wide-Range Piezoresistive Sensors Based on Graphene-Coated Pyramidal-Textured Porous Conductive PDMS Substrates Ching Chih Lin, 國立成功大學
SUN-PS2-142 P3-0049	Bismuth-Based Metal-Organic Framework with Oxidoreductase-Like Activity for Hexavalent Chromium Detection Yi-Ning Wang, National Taiwan Normal University
SUN-PS2-143 P3-0050	Fabrication of Electrochromic Nanopipette Bipolar Electrodes for Small-Volume Sensing Applications

	Kai Li Chen, National Cheng Kung University
SUN-PS2-144 P3-0051	Hydrothermal Synthesis of Cu₂O/Co₃O₄/rGO Composites for Efficient Electrocatalytic Water Splitting Yeong Yeong Chang, 國立成功大學
SUN-PS2-145 P3-0052	A Novel Fluorescent Metal–Organic Framework as a Nanocarrier for Gene Detection Tzu-Yin Liao, Chung Yuan Christian University
SUN-PS2-146 P3-0053	Development of a Triangular Silver Nanoplate Probe for Protein Content Analysis in White Rice Yao Co-Chain, 國立嘉義大學
SUN-PS2-147 P3-0054	Construction of an Automated Dewater-Thermal Desorption System with GC-ECD for Measuring Atmospheric Halocarbons Chang-Feng Ou-Yang, National Central University
SUN-PS2-148 P3-0055	Online Bubble Preconcentration and Mass Spectrometry for PFAS Detection Meng Chen Chan, 國立中興大學
SUN-PS2-149 P3-0056	Preparation of Co-Mn metal-organic Frameworks/Multi-Walled Carbon Nanotube Heterostructures for Electrochemical Detection of Propyl Gallate for Food Safety Sethupathi Velmurugan, National Chi Nan University
SUN-PS2-150 P3-0057	Molecularly Imprinted Polymers with Covalent Anchoring Porphyrin-Based COF on MWCNT Platform for Electrochemical Sulfamethazine Sensing Lokesh Bettada, National Chi Nan University
SUN-PS2-151 P3-0058	Integrating Green Chemistry and Artificial Intelligence for Food Freshness Prediction Guan Sheng Ho, National Chung Hsing University
SUN-PS2-152 P3-0059	Catalytic Mechanism and Principle of Platinum Nanoparticles Toward Gold Nanomaterials ya han Chan, 臺北市立大學(University of Taipei)
SUN-PS2-153 P3-0060	Investigation for Novel Freshness Marker Components of Rice Tzu-Yu Wang, 嘉義大學
SUN-PS2-154 P3-0061	The Application of X-ray Diffraction Analysis in Grain Size of Carbon Materials and Catalysts Yuchen Hsu, 台灣中油股份有限公司煉製研究所
SUN-PS2-155 P3-0062	Simultaneous Removal of Multiple Heavy Metal Ions from Simulated Wastewater Using Nanoceria-Carbon Nanotubes Infused Three-Dimensional Novel Cryogels Sunaina Mudigonda, Kaohsiung Medical University
SUN-PS2-156 P3-0063	Turning an Adversary into an Ally: Self-assembled Amyloid-Like Fibril Aerogel Packed 3D-printed Microfluidic Sample Pre-Treatment Device for Elemental Analysis Kainat Ishaq, Kaohsiung Medical University
SUN-PS2-157 P3-0064	Determination of Clinical Antibiotics and Drugs in Complex Matrices Using Solid-Phase Extraction Coupled with Single-Drop Microextraction and MALDI Mass Spectrometry

	Chun-Hua Chang, 國立高雄師範大學
SUN-PS2-158 P3-0065	Development and Applications of Flexible and Rub-Resistant SERS Substrates Yun Hui Li, 高雄醫學大學
SUN-PS2-159 P3-0066	Deep-Learning-Integrated SERS Sensing Platform for Rapid Stroke Prognostic Assessment Chia Ling Kuo, National Tsing Hua University
SUN-PS2-160 P3-0067	Deep Eutectic Solvent-Derived Sulfur-Doped Graphene Quantum Dots for Ultra-Sensitive and Selective Fluorescent Detection of Chromium (VI) Muhammad Bilal Khan, Kaohsiung Medical University
SUN-PS2-161 P3-0068	Decoupling Carrier Dynamics in Ta₃N₅ Photoanodes via the Analysis of Distribution of Relaxation Times Peng Ting Chen, 國立台灣大學
SUN-PS2-162 P3-0069	Selective Optical Sensing of Butanone and 2-Pentanone in Ethanol Using APTES-Functionalized ZnO Quantum Dots Chen-Xi Zhu, National Taipei University
SUN-PS2-163 P3-0070	Development of a Solid-Phase Microextraction Combined with GC-MS Platform for the Differentiation of Frozen Concentrated Milk and Fresh Milk Zhuang Ya Ting, National Chung Hsing University
SUN-PS2-164 P3-0071	Synergistic Fluorescence Enhancement in BSA-Templated Cu-Mo Bimetallic Nanoclusters: Synthesis, Optimization, and Mechanistic Insights Shih Yu Tsai, National Changhua University of Education
SUN-PS2-165 P3-0072	Development of a Nitric Oxide Sensing Method in Biological Samples Using Fluorescent Carbon Quantum Dots Tsai Nien-Chieh, 高雄醫學大學
SUN-PS2-166 P3-0073	Enhancing Proton Conductivity of Proton Exchange Membranes via Modified Metal-Organic Frameworks Hsin Tzu Huang, 東吳大學
SUN-PS2-167 P3-0074	Molecular Dynamics Simulations as a Versatile Toolkit for Deciphering Peptide- and ROS-Based Antimicrobial Mechanisms Wei-Yu Wang, National YANG MING TUNG University
SUN-PS2-168 P3-0075	Label-Free Magnetic Separation and Dual-Mode Detection of Pathogenic Bacteria Using Terbium Ions Wei-Ting Shih, National Yang Ming Chiao Tung University
SUN-PS2-169 P3-0076	Electrochemical Recovery of Rare Earth Element Neodymium Metal in Deep Eutectic Solvents Chiun Hsia, Soochow University
SUN-PS2-170 P3-0077	Analysis of the Antioxidant, Whitening and Chemical Composition of Slipper Orchid Extract Yin-Cen Lin, Hungkuang University
SUN-PS2-171 P3-0078	Electrochemical Sensor based on Molecularly Imprinted Polymer in Deep Eutectic Solvents for Gallic acid Detection Hsin-Tzu Fan, Soochow University

SUN-PS2-172 P3-0079	One-pot Synthesis of Dopamine Carbon Dots Hsiao-Chi Lai, National Changhua University of Education
SUN-PS2-173 P3-0080	Antioxidant-Modulated and Photothermally Activated Fe₃O₄ Nanoparticles for Peroxide-Free Antibacterial Applications Zong-Kai Jiang, National Yang Ming Chiao Tung University
SUN-PS2-174 P3-0081	Strategies for Mitigating In-Source Fragmentation of Metanephrines: Preserving Molecular Integrity for High-Sensitivity LC-MS/MS Analysis Yung-Cheng Jair, National Taiwan University
SUN-PS2-175 P3-0082	Quantification of Interfacial Trap States via Bias-Applied HAXPES: A Chemical-State Perspective Wen Jen Chen, National Taiwan University
SUN-PS2-176 P3-0083	Next-Generation On-Site PFAS Detection for Real-Time Environmental Monitoring Zhi-Yang Huang, 國立中興大學
SUN-PS2-177 P3-0084	New Strategy for Mitigating In-Source Fragmentation in Lipidomics via Alternative ESI Source Gases Wu I Chen, National Taiwan University, College of Medicine
SUN-PS2-178 P3-0085	Monitoring Changes in the Concentrations of Specific Alkaloids Under Different Degradation Reactions Using MALDI Mass Spectrometry Yi Shan Wu, NKNU
SUN-PS2-179 P3-0086	Dynamics of Surfactant Equilibrium Process Between Interfaces and Bulk Ying-Ju Chen, National Taiwan University
SUN-PS2-180 P3-0087	Development of a Rapid MALDI MS–Based Approach for Lipid Profiling in Edible Oils Combined with Principal Component Analysis for Type Classification Min hsuan Lin, National Kaohsiung Normal University
SUN-PS2-181 P3-0088	Surface Enhanced Raman Scattering of Au Doping Semiconductor Materials Synthesized by Photocatalysis Mei Yan Su, 國立屏東大學
SUN-PS2-182 P3-0089	Development of a MALDI-TOF MS–Based Method Combined with Principal Component Analysis for the Effective Differentiation of Hemoglobin from Different Animal Species Zheng Zhong Chen, National Kaohsiung Normal University
SUN-PS2-183 P3-0090	Detection of Colorants in Food Additives by Solid-Phase Extraction Coupled with Matrix-assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry Shih Ying Lai, 國立高雄師範大學
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SUN-PS2-185 P3-0092	β-Cyclodextrin-Functionalized Glassy Carbon Electrode for Sensitive Electrochemical Detection of Mannose-Binding Proteins and Escherichia coli Zhi Jia Chen, National Chung Hsing University

SUN-PS2-186 P3-0093	Investigation of the Effects of Different Matrix Deposition Approaches on the Spatial Resolution of MALDI Mass Spectrometry Imaging Hsin Ke Huang, National Kaohsiung Normal University
SUN-PS2-187 P3-0094	Visualization of the Signal Distribution of Specific Molecules Within Common Matrix Crystals Using Matrix-Assisted Laser Desorption/Ionization Imaging Mass Spectrometry Yun-Xuan Tian, NKNU
SUN-PS2-188 P3-0095	Zn-2MI@Tp-DAAQ@MWCNTs-COOH Modified Screen-Printed Carbon Electrode for Simultaneous Detection of Dopamine, Acetaminophen, and Bisphenol A Wing Hei Choi, Fu Jen Catholic University
SUN-PS2-189 P3-0096	Development of a Simple Thin-Film Solid-Phase Microextraction Device Combined with MALDI-MS for the Detection of Aminoglycoside Antibiotic Residues in Real-World Samples Ying Yu Lai, 國立高雄師範大學
SUN-PS2-190 P3-0097	Prussian Blue Nanoparticle-Integrated DNA Hydrogel 3D Electrode for Dual Electrochemical and Colorimetric Detection of DNA Glycosylase JiaCherng Liu, 國立陽明交通大學
SUN-PS2-191 P3-0098	Investigating the Impact of Environmental Toxins (1-NP, BaP, and NPYR) on Lipid Metabolism in Caco-2 Cells: Implications for the Gut-Brain Axis Pei-Qi Qiu, National Taiwan Normal University
SUN-PS2-192 P3-0099	SPE-enabled Coupling of RNA-cleaving DNAzyme-based Sensing System with LC-MS for miRNA Analysis Shih-Hsun Chen, National Taiwan University, College of Medicine
SUN-PS2-193 P3-0100	Hybrid Silver Nanowire/Nanoparticle SERS Platform for Sensitive Detection of Four Clinical Pathogens Xuan-Yu Chen, National Chung Hsing University
SUN-PS2-194 P3-0101	Expression and Immunoreactivity Validation of PirA^{VP} and PirB^{VP} Antigens Based on Linear Array Epitope Design 梁凱幃, National Chung Cheng University
SUN-PS2-195 P3-0102	Metabolomic Fingerprinting of Taiwanese Roasted Coffee Beans Using Untargeted GC-MS Analysis Liang Yi Lee, National Chiayi University
SUN-PS2-196 P3-0103	Headspace Solid-Phase Microextraction of BTEX in Water Using a Polydimethylsiloxane-Coated Gold-Plated Stainless-Steel Fibers Han-Yu Hsu, Chia Nan University of Pharmacy and Science
SUN-PS2-197 P3-0105	EXPAR-Based Multi-Target Detection of Sarcopenia Biomarkers Yu-Wei Chang, National Yang Ming Chiao Tung University
SUN-PS2-198 P3-0106	A Laser-Induced Graphene Microarray for Improved Analytical Precision in Laser Desorption Ionization Mass Spectrometry Yi-Ru Chen, National Taiwan Normal University
SUN-PS2-199 P3-0108	Structure-Driven Enzyme-Mimetic Selectivity in Amino Acid-Engineered Nanozymes for Colorimetric Determination of Catechol and Hydroquinone

	Chuu-Hsiang Peng, National Taiwan Normal University
SUN-PS2-200 P3-0109	Thermal Contact-Induced Ultrafast Matrix Confinement for Room-Temperature Phosphorescent Carbon Dots Tsung-Yuan Wang, National Taiwan Normal University
SUN-PS2-201 P3-0110	Metal-Free Laser-Induced Graphene Nanozyme with Urate Oxidase-Like Activity Yi-Tzu Chang, National Taiwan Normal University
SUN-PS2-202 P3-0112	In-Situ Visualization of Electrowetting and Solid Electrolyte Interphase Formation in Ionic Liquids: The Critical Role of Water under Vacuum Ying Shih Wu, 國立台灣大學
SUN-PS2-203 P3-0113	Accurate Detection of Cellular Senescence in Melanoma Cells Enabled by a Ratiometric Fluorescent Probe Ming-Fei Tsai, 國立中興大學
SUN-PS2-204 P3-0114	On-site Monitoring of Pesticide Residues via Surface-Enhanced Raman Spectroscopy Chieh-Yi Chen, National Chung Hsing University
SUN-PS2-205 P3-0115	Nanoparticle-Based Fluorescent Probe Turns on for Sensing β-Galactosidase Sushil Bhavesh Senthil Kumar, Graduate Institute of Biomedical Engineering
SUN-PS2-206 P3-0116	High-Sensitivity Electrochemical Sensor Based on Modified MoSe₂ for Local Anesthetic Detection and Clinical Drug Monitoring Pei Ting Chiu, 靜宜大學
SUN-PS2-207 P3-0117	Highly Sensitive Determination of Fluoroquinolones by On-Line Stacking Capillary Electrophoresis with Ion-Pair Dispersive Liquid-Liquid Microextraction Po-Chen Lin, 高師大化學系
SUN-PS2-208 P3-0118	Development of Highly Sensitive Method for Determining Artificial Sweeteners in Environmental Water Samples Using Capillary Electrophoresis Coupled with Contactless Conductivity Detection Wen-Ting Yea, 國立高雄師範大學
SUN-PS2-209 P3-0119	EXPAR-mediated DNA Barcode Microarray Detection Assay Yu-Heng Wu, National Yang Ming Chiao Tung University
SUN-PS2-210 P3-0120	Extending the Detection Range of Liquid Crystal-Based Sensors via Fluorescent Dye Doping KuanTing Chen, Tamkang University
SUN-PS2-211 P3-0121	Simple Yet Powerful CRC Exosome Sensor Featuring Antifouling Zwitterionic Peptide Shu-Hong Lin, National Taiwan University
SUN-PS2-212 P3-0122	Passive Daytime Radiative Cooling Nanofibers for Solar-Stable Wearable CHING-YIN CHANG, National Tsing Hua University (NTHU)
SUN-PS2-213 P3-0123	Determine of pH-Dependent Diketo and Keto-Enol Tautomers of Curcumin Analogs by Ultraperformance Liquid Chromatography-Mass Spectrometry Shu-Yao Lin, Academia Sinica/NSYSU
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	Teng-Jui Huang, 台灣中油
SUN-PS2-215 P3-0125	Electrically Switchable Molecular Adhesion via Self-Assembled Monolayer - Mediated Hydration and Ion Structuring Valentina Wieser, National Taiwan University
SUN-PS2-216 P3-0126	Investigation of the Adsorption Performance of Covalent Organic Frameworks (COFs) for Complex Organic Gas Mixtures using TD-GC/MS techniques Yi-An Yang, Chung Yuan Christian University
SUN-PS2-217 P3-0127	Development of a Multifunctional MOF-Based Platform for Detection and Adsorption of Complex Volatile Organic Compounds (VOCs) Chih Ling Chang, Chung Yuan Christian University
SUN-PS2-218 P3-0128	Probing Cation-Carboxylate Interactions and Interfacial Hydration at poly(3,4-ethylenedioxythiophene)-based Surfaces via QCM and in situ IR Ya-Chen Gong, National Taiwan University
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SUN-PS2-220 P3-0130	Sensitivity Enhancement of Multiplex Lateral Flow Immunoassays by NIR-II Fluorescence and Thermal Contrast Chun Yang Huang, National Yang Ming Chiao Tung University
SUN-PS2-221 P3-0131	Antioxidant Activity, and Chemical Composition of Alpinia zerumbet Extracts Can-Rong Lin, Hungkuang University
SUN-PS2-222 P3-0132	Carbonized Herbal Polyphenol Engineered MXene Enables Long-Acting Therapy for Dry Eye Disease Hung-Wen Tsai, 國立清華大學
SUN-PS2-223 P3-0133	Solid-Phase Microextraction Combined with Thermal Desorption Electrospray Ionization Mass Spectrometry for Rapid, Sensitive Detection of Perfluoroalkyl Substances in Water Yi-Yang Shen, National Sun Yat-sen University
SUN-PS2-224 P3-0134	Detection of Human Metabolites on Skin by Thermal Desorption Electrospray Ionization Mass Spectrometry for Assessment of Suboptimal Health Status Min-Yuan Hsu, National Sun Yat-Sen University
SUN-PS2-225 P3-0135	Development of a dual desorption ionization source integrating thermal and laser desorption for mass spectrometric analysis Wei-Hsun Lin, National Sun Yat-sen University
SUN-PS2-226 P3-0136	Integrating Spectroscopy and Ambient Mass Spectrometry for Advanced Reaction Monitoring in Synthetic Chemistry Yan-Yu Shen, National Sun Yat-sen University
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	Hsin-Jung Lin, 國立中興大學
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SUN-PS2-231 P3-0141	Revisiting the Reaction Mechanism of Lithium Layered Transition Metal Oxides in Lithium-ion Batteries Qi-Jun Kang, National Taipei University of technology
SUN-PS2-232 P3-0142	Flower-Like SrMoO₄ Integrated f-CNF Nanohybrid as an Electrocatalyst for the Detection of N-Substituted Amines in Environmental and Food Samples: Combined Experimental and DFT Insights Bhuvan Lokesh Marenahalli, Taipei Medical University
SUN-PS2-233 P3-0143	Application of Ambient Ionization Mass Spectrometry for the Establishment of Molecular Imaging on Facial Skin and Pharmacokinetics on Skin Surface Hsin-Wei Ku, 國立中山大學
SUN-PS2-234 P3-0144	Detection of Human Metabolites on Skin by Thermal Desorption Electrospray Ionization Mass Spectrometry for Assessment of Multi-Organ Failure Yu-Chen Lin, National Sun Yat-Sen University
SUN-PS2-235 P3-0145	Integrating TD-ESI/MS and GC for Rapid Analysis of Complex Samples Han-Ssu Huang, National Sun Yat-Sen University
SUN-PS2-236 P3-0146	Optimization of Optical Path Length and Spectral Preprocessing for Ethanol Quantification Using Portable NIR Spectrometer Tai-Sheng Yeh, Meiho University
SUN-PS2-237 P7-0001	Isomeric Halide Engineering of Self-Assembled Hole-Selective Layers for Efficient Indoor Perovskite Photovoltaics Yi Ting Hong, Soochow University
SUN-PS2-238 P7-0002	Design and Synthesis of Novel D-A'-π-A Organic Dyes for Dye-Sensitized Solar Cells Fang-I Su, Academia Sinica
SUN-PS2-239 P7-0003	Unveiling the Mechanism of Pt Photodeposition on Organic Photocatalysis via First-Principle Simulations Chin Yu Chen, 國立清華大學
SUN-PS2-240 P7-0004	Effects of Alkyl Chain Tuning and Synergistic Interactions in Triphenylacrylonitrile Systems on Aggregation-Induced Emission Performance En Ruei Kuo, Tamkang University
SUN-PS2-241 P7-0005	Fluorinated Carbazole-Based Self-Assembled Small Molecules for Inverted Perovskite Solar Cells YiWei Hsu, soochow university
SUN-PS2-242 P7-0006	Synthesis of Photochromic Organic Dyes for Dye-Sensitized Solar Cells Ning Hong Xu, 國立中央大學

SUN-PS2-243 P7-0007	Synthesis of D-A type Polymer Electron Transport Materials for Inverted Perovskite Solar Cells Tzu Jou Chang, 國立中央大學
SUN-PS2-244 P7-0008	Ultrabright and Stable Red Perovskite Nanocrystals in Micro Light-Emitting Diodes Using Flow Chemistry System Yen-Huei Lin, National Taiwan University
SUN-PS2-245 P7-0009	Solvent-Free Curable Perovskite Quantum Dot Inks for MicroLED and LED Backlighting Applications Yu-Ting Huang, 國立臺灣大學
SUN-PS2-246 P7-0010	Research on the Application of Phenothiazine Derivatives as Self-Assembled Small Molecule Materials in Inverted Perovskite Solar Cells Chia Yun Lee, 東吳大學
SUN-PS2-247 P7-0011	A Study of Naphthalene-Containing Asymmetric Spiro-Type Hole Transport Materials for Perovskite Solar Cells Xiu Ping Lin, Soochow University
SUN-PS2-248 P7-0012	Advanced Machine Learning-Driven High-Throughput Approach for the Rational Design of Multi-Resonance Thermally Activated Delayed Fluorescence Materials Jun-Kai Wang, National Central University
SUN-PS2-249 P7-0013	Investigation of Donor–Acceptor Phenoxazine Derivatives as Self-Assembled Hole Transport Layers in Wide-Bandgap Perovskite Solar Cells Po-Cheng Shih, 東吳大學
SUN-PS2-250 P7-0014	Development of Recyclable and Stretchable Biomass Hydrogels for Sustainable Chlorophyll-Cased Phototransistor Memories Wei-Yu Chen, Ming Chi University of Technology
SUN-PS2-251 P7-0015	Synergistic Crystallization in Tin-Lead Perovskite: The Impact of Different Structures of Perovskite Additive Molecules Li-Hao Chen, 國立中央大學
SUN-PS2-252 P7-0016	Effects of Heteroatom Substitution on the Liquid Crystalline and Aggregation-Induced Emission Properties of 4-Alkoxy-4'-Cyanobiphenyl Derivatives Yen Ming Lin, 淡江大學學校財團法人淡江大學
SUN-PS2-253 P7-0017	Ternary Organic Solar Cells with Conjugated Terpolymers for Reduced Energy Loss Po-Ju Chiu, 明志科技大學
SUN-PS2-254 P7-0018	Boosting CO₂ Photo-reduction and Selectivity Switching from CH₄ to CO on Tin Disulfide Thin Film Having Fluorine-dopant Pairing with Sulfur Vacancy Tadios Tesfaye Mamo, National Taiwan University
SUN-PS2-255 P7-0019	Synthesis of Narrow-Luminescent Organic Small Molecules Containing Dibenzofuran Yuan Lu, soochow university
SUN-PS2-256 P7-0020	One-pot Hydrothermal Synthesis of WS₂/V₂O₅/G as a Z-scheme Heterojunction for Efficient Photocatalytic Degradation of Ciprofloxacin (CIP) Antibiotics Linjer Chen, National Yunlin University of Science and Technology

SUN-PS2-257 P7-0021	Anion Effects on the Photophysical Properties of Imidazole-Conjugated Salts Wei-Ting Chien, Chung Yuan Christian University
SUN-PS2-258 P7-0022	Effect of N–N Bridged Triarylamine Interfacial Molecule on the Efficiency of Perovskite Solar Cells Yu-Shin Chen, National Taipei University of Technology
SUN-PS2-259 P7-0023	Interfacial Engineering and Device Performance of Small-Molecule Hole Transport Layers in Inverted Perovskite Solar Cells Pin Liang Lu, National Taipei University of Technology, Taipei Tech
SUN-PS2-260 P7-0024	Application of Carbonyl-Functionalized Triphenylamine Derivatives as Hole-Transporting Materials for Inverted Perovskite Solar Cells Shao Fu Lee, National Taipei University of Technology
SUN-PS2-261 P7-0025	Acceptor-Type Methoxy-Substituted Hydroxybenzophenone Hole Transport Materials Enabling High-Performance Inverted Perovskite Solar Cells Huang Yueh Liu, National Taipei University of Technology
SUN-PS2-262 P7-0026	Dual-Surface Engineering Strategy: Synergistic Stabilization of CsPbI₃ Perovskite via Ligands and Silica Coating Yu-Lin Hsiao, National Taipei University of Technology
SUN-PS2-263 P7-0027	Temperature-Controlled Synthesis of FAPbBr₃ Perovskite Nanoplatelets: Morphology and Optical Property Tuning from Green to Blue Emission Wen-Feng Lai, National Taipei University of Technology
SUN-PS2-264 P7-0028	Design of Self-Assembled Hole-Selective Layers via Molecular Modifications for Indoor Perovskite Photovoltaics Zheng-Xuan Cai, Ming Chi University of Technology
SUN-PS2-265 P7-0029	Synthesis and Identification of Multiple-Resonance Organic Emitters with 1,2,3,4-Tetraphenyl-9H-Carbazole Substitution Ya-wen Lai, Soochow University
SUN-PS2-266 P7-0030	Development of Low-Triplet-Energy Multiple-Resonance Emitters Incorporating Pyrene and Anthracene Yu-Hsuan Chiang, 東吳大學
SUN-PS2-267 P7-0031	Blue Triplet–Triplet Fusion Organic Light Emitting Diodes Based on Pyrene or Anthracene Derivative Hosts Wei-Han Chen, Soochow University
SUN-PS2-268 P7-0033	Copper-Doped InP/ZnSe Core/Shell Quantum Dots for the Application in Photocatalytic CO₂ Reduction Yun-Cih Yang, National University of Tainan
SUN-PS2-269 P7-0034	Highly Stable Organometallic Complexes for Solar-Driven Water Evaporation and Thermoelectric Conversion Applications Yi-Bo Liang, National Kaohsiung University of Science and Technology
SUN-PS2-270 P7-0035	Addition of Phenethylammonium Iodide for Perovskite Single-Crystal Growth by Inverse Temperature Crystallization Ting-Yu Wang, 雲林科技大學

SUN-PS2-271 P7-0036	Preparation and Characterization of Polyimide Thermoset Hybrid Materials with High and Low Refractive Index and Their Application in Optical Waveguide Devices En-Ming Chang, Chung Yuan Christian University
SUN-PS2-272 P7-0037	Fluorine-rich Molecules as Interfacial Layer for High Performance Lead Perovskite Solar Cell Chun-Wei Liu, 國立中央大學
SUN-PS2-273 P7-0038	Au-Decorated InP Quantum Dots for Photocatalytic CO₂ Reduction Ting-Ni Wang, National University of Tainan
SUN-PS2-274 P7-0039	Structural and Optical Properties of 2D Perovskite (3F-PA·H)₂PbCl₄ Thin Films Tz-Hsuan Hsu, National Taipei University of Technology
SUN-PS2-275 P7-0040	Alkenyl-Substituted NI and BfNI Derivatives as Organic Modifiers for Pt Electrodes: Electrochemical Properties and DSSC Performance Cian-Yu Huang, 靜宜大學
SUN-PS2-276 P7-0041	Energy-Level Matching Strategies for Panchromatic Dye-Sensitized Solar Cells via Low-LUMO BfNI Dyes and Boron-Doped TiO₂ You-Cheng Lin, 靜宜大學
SUN-PS2-277 P7-0042	Novel 5H-Dithieno[3,2-b:2',3'-d]pyran-Based Self-Assembled Monolayers as Hole-Selective Contacts for Inverted Perovskite Solar Cells Wei-Chun Chou, 東吳大學
SUN-PS2-278 P7-0043	Metal–Organic Framework-Modified BiVO₄ Photoanodes for Photoelectrochemical Glycerol Oxidation Shih-Han Huang, National University of Tainan
SUN-PS2-279 P7-0044	Untangling the Decomposition Mechanism of Cs₂AgBiBr₆ and the Resulting Low-Dimensional Materials Yu-Chen Hong, National Taiwan University
SUN-PS2-280 P7-0045	Photochromic Additive–Regulated Alignment and Morphology of Conjugated Polymer Thin Films for Organic Field-Effect Transistors Xiao-Yuan Lin, National Taipei University of Technology
SUN-PS2-281 P7-0046	Synergistic Construction of MoSe₂/g-C₃N₄ Heterojunctions for Optimized Photocatalytic Crystal Violet Degradation and Charge Carrier Dynamics Yu-Yun Cho, Chung Shan Medical University
SUN-PS2-282 P7-0047	Process Optimization of Spin-Coated CuO Nanoparticle Thin Films for Electronic Applications Padmapriya Murali, National Chung Hsing University
SUN-PS2-283 P7-0048	Low-Dislocation-Density Pure Germanium Films Grown Directly on Microhole-Patterned SiO₂/Si(111) Substrates by Liquid-Phase Epitaxial Lateral Overgrowth Yu-Ting Fu, 中原大學
SUN-PS2-284 P7-0049	Engineering Encapsulation Designs toward Durable Lead Halide Perovskites for Green-Oriented Optoelectronic Applications Andi Magattang Gafur Muchlis, National Taipei University of Technology

SUN-PS2-285 P7-0050	A Multifunctional Perylene Diimide Electron Transport Layer for Efficient Organic solar cells Ting-Ying Huang, 明志科技大學
SUN-PS2-286 P7-0051	Broadband Photoresponse in PEDOT:PSS/SnS₂/Graphene Double Heterostructures Yi-Chen Lee, Chung Yuan Christian University
SUN-PS2-287 P8-0002	Sandwich-Structured UiO Frameworks Encapsulating Pd Nanoparticles toward CO₂ Catalytic Transformation Yun-Sheng Lin, 國立陽明交通大學
SUN-PS2-288 P8-0003	Development of High-Value Applications for Recycled Carbon Black from Waste Tires Chun-Han Hsu, 國立臺南護理專科學校
SUN-PS2-289 P8-0004	Nitrogen-Doped Hierarchical Porous Carbon from Agricultural Waste via CO₂-Assisted High-Temperature Physical Activation for CO₂ Capture, Dual-Dye Removal, and Water Vapor Adsorption Applications Daniel Ng, 國立成功大學
SUN-PS2-290 P8-0005	Synthesis of Silica Hollow Nanospheres Decorated with TiO₂ for Photocatalytic Degradation of Organic Dyes Yuching Lin, 成功大學
SUN-PS2-291 P8-0006	Green Synthesis of Moisture- and Air-Stable Cesium Lead Halide Perovskite Nanocrystals Confined within Nanoporous Silica Ruei-Bin Wang, National Cheng Kung University
SUN-PS2-292 P8-0007	Charge-Tunable Nanoporous Graphene for Adsorption-Facilitated Alcohol/Water Reverse Osmosis Separations Yen-Yung Wu, National Taiwan University
SUN-PS2-293 P8-0008	Impact of Surface Texture on Carbon Materials for CO₂ Adsorption Tzu-Hsuan Yang, National Taiwan University
SUN-PS2-294 P8-0009	Silicate-Regulated Formation of Nanotubular Copper Phyllosilicate with Tunable Reactivity and Spatial Localization Xuan-Ci Hu, National Cheng Kung University
SUN-PS2-295 P8-0010	Liquid-Phase Functionalization of Crumpled Graphene Oxide with the Study of Morphology Preservation Yen-Ting Liu, National Sun Yat-sen University
SUN-PS2-296 P8-0011	Microenvironment Matters: Copper-Carbon Composites Enable a Highly Efficient Carbon Dioxide Reduction Reaction to C₂ Products Yu-Jhih Shen, National Yang Ming Chiao Tung University
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SUN-PS2-300 P8-0015	Graphene Oxide-Supported Au and PEDOT for Electrochemical Sensing of Biospecies Pei-Jou Chang, 國立雲林科技大學
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SUN-PS2-304 P8-0019	Hydrophilized ZIF-8–Derived Carbon and Stable Ni_xCo_{1-x}HCF Asymmetric Electrodes for Efficient Membrane Capacitive Deionization Cheng-Chih Liu, 清華大學
SUN-PS2-305 P8-0020	Enhancing Hot Carrier Generation in Supported Au and Au-Ag Nanocrystals via LSPR Modulation and Crystallinity Control Tzi-Yi Liu, National Changhua University of Education
SUN-PS2-306 P8-0021	Synthesis and Photoelectrochemical Properties of Supported Tungsten Oxide Nanoclusters Hsun-Tse Li, National Changhua University of Education
SUN-PS2-307 P8-0022	Supported Au-Pd Bimetallic Nanocatalysts for Hydrogen Peroxide Synthesis from Formic Acid and Molecular Oxygen Ke-Huan Chen, National Changhua University of Education
SUN-PS2-308 P8-0023	Membrane-Integrated Liposome Capable Specific Tumor-Homing to Encapsulate Au@SiO₂ Drug Delivery Nano System for Enhanced Photothermal and Chemo Combination Therapy in Skin Metastatic Breast Cancer Fang-Yi Hsu, 高雄醫學大學
SUN-PS2-309 P8-0024	Synthesis, Characterization of MOF Materials Containing Lanthanide Metal and Their Application in Gas Sensing Devices Tse-Kang Pan, Chung Yuan Christian University
SUN-PS2-310 P8-0025	Electrochemical Properties for Energy Storage of Trimetallic CoCuNi Metal-Organic Frameworks Yu-Fang Chen, 國立雲林科技大學
SUN-PS2-311 P8-0026	Preparation and Characterization of Fe/Cu-MOF/Mxene Composites and Their Application in Gas Sensing Zong-Kai Ni, Chung Yuan Christian University
SUN-PS2-312 P8-0027	Electroactive Membrane-Coated Nanocarriers Radiolabeled with ⁶⁴Cu Enable Homologous Tumor Targeting and Enhanced Positron Emission Ying Chen Lin, 高雄醫學大學

SUN-PS2-313 P8-0028	Self-Assembly of Heteroleptic Zirconium Metal–Organic Cages Zih-Ling Chin, National Taiwan Normal University
SUN-PS2-314 P8-0029	Hydrophobic Post-Synthetic Modification of MOFs for Enhanced CO₂ Capture Performance and Moisture Resistance under Humid Conditions Wei-Cheng Chu, national Tsing-hua university
SUN-PS2-315 P8-0030	Heteroleptic Metal Organic Cages with Linear and Bent Ligands for Trace Benzene Removal from Cyclohexane Jiale Chen, National Taiwan Normal University
SUN-PS2-316 P8-0031	Granulation of MOF Adsorbents Using Various Binders for AMC Removal Chung-Yu Yen, 國立清華大學
SUN-PS2-317 P8-0032	Mesopores in Zirconium-Based Metal–Organic Framework for In-Situ Polymerization of Aniline Rendering Enhanced Rate Capability for Supercapacitors Tsan-Yu Chuang, National Cheng Kung University
SUN-PS2-318 P8-0033	Iron-Functionalized Two-Dimensional Metal–Organic Framework as an “Initiator” for Polypyrrole Synthesis toward Electrochemical Dopamine Detection Hsin-Ya Tsai, National Cheng Kung University
SUN-PS2-319 P8-0034	A Multifunctional Electronic Nose Sensing System for Low-Concentration Ammonia at Room Temperature Constructed with ZIF-67 Composite Materials Ting-Yi Yeh, 靜宜大學
SUN-PS2-320 P8-0035	Development of a ZIF-8-based Composite Multifunctional Electronic Nose for Low-Level Methyl Mercaptan Detection at Room Temperature in Livestock Farming Hsiang-Chin Shen, 靜宜大學
SUN-PS2-321 P8-0036	Preparation of Au/ZIF-8 Materials and Their Application in Hydrogen Production from Formic Acid Hsiang-Yun Wang, Providence University
SUN-PS2-322 P8-0037	Desolvation-Assisted Ordering of Metal-Organic Frameworks Yu-Chen Chung, 清華大學 NTHU
SUN-PS2-323 P8-0038	Synergistic Enhancement of Hydrogen Sensing Properties via Au-Decorated CNT/ZIF-67 Ternary Nanocomposites Yu-Ling Chuang, Providence University
SUN-PS2-324 P8-0039	Gas-sensing Studies of Inter-Digitated Electrode Decorated with Porous EPI Aerogel/Biomass Carbon Composite Materials Using CO₂ Supercritical Fluid Technique Wei-Syuan Jhuang, Chung Yuan Christian University
SUN-PS2-325 P8-0040	Nanoporous MOF-Derived Hybrid Architectures for Electronic Nose Systems toward High-Selectivity Multi-VOC Sensing in Livestock Odor Monitoring Yu-Cheng Shih, 靜宜大學
SUN-PS2-326 P8-0041	Corrosion Protection Studies of Metals by Epoxy Resin Composite Coatings Containing Biomass Carbon with Different Surface Areas in the Presence of ACQ Wood Preservative

	Ssu-Chiao Huang, Chung Yuan Christian University
SUN-PS2-327 P9-0002	Teaching Chemistry Through Jenaplan Education: A Weekly Curriculum Design for the Periodic Table Yi-Xuan Chen, National Kaohsiung Normal University
SUN-PS2-328 P9-0003	Study on the Chemical Composition, Antioxidant, and Whitening Activities of Artemisia argyi Chen Yi Lin, 弘光科技大學
SUN-PS2-329 P9-0004	Integrating Chemical Core Curricula through Prussian Blue Analogues: From Artistic Pigments to Redox Catalysis Xin Bei Lin, National Taiwan Normal University
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SUN-PS2-331 P9-0006	Strategic Engagement of Taiwan with IUPAC: Opportunities, Participation, and Global Impact Brian Li, IUPAC
SUN-PS2-332 P10-0001	The Application and Preparation of Anti-Mosquito Microcapsules Guo-Ming Yang, Cheng Shiu University
SUN-PS2-333 P10-0002	Catalyst System Studies for Ethylene/1-Octene Copolymerization toward Polyolefin Elastomers Ding-Chi Huang, CPC Corporation, Taiwan
SUN-PS2-334 P10-0003	Optimization of Cu-Zn Based Catalysts for CO₂ Hydrogenation to Methanol Yen-Hao Lin, CPC Corporation, Taiwan
SUN-PS2-335 P10-0004	Particle Detection of Airborne Molecular Contaminants Using Soft X-ray Ionization Coupled with a Differential Mobility Analyzer–Condensation Particle Counter (DMA–CPC) Yu Hsien Wu, 工業技術研究院
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SUN-PS2-337 P10-0006	MnO₂ Doped MoO₄²⁻ Protective Layer for Neutral Seawater Splitting Ching-Hsuan Chou, 國立陽明交通大學
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SUN-PS2-339 P10-0009	Research on Dissolved Oxygen in Petrochemical Oil During Distillation Hsun-YI Huang, CPC-Taiwan
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	Hsin-Yu Chang, Chung Yuan Christian University
SUN-PS2-342 P10-0012	Enhancing Interfacial Electron Transfer Kinetics via Novel Mediator Based for High-Sensitivity Amperometric D-3-Hydroxybutyrate Biosensing Yen-Pei Lu, National Center for Instrumentation Research, National Institutes of Applied Research
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SUN-PS2-344 P10-0014	Accelerating the Development of Recyclable Oriented Polyolefin Films: An Integrated Framework for Formulation Design and Orientation Feasibility Evaluation Hsu-Liang Huang, Industrial Technology Research Institute
SUN-PS2-345 P10-0015	PVDF-HFP Based Gel Polymer Electrolyte for Lithium Metal Batteries Chun Hao Huang, Refining & Manufacturing Research Institute, CPC Corporation, Taiwan
SUN-PS2-346 P10-0016	Performance Comparison of Commercial vs. Lead-Carbon Fiber Composite Lead-Acid Batteries for Solar PV Energy Storage Yi-Zhou Shen, National Formosa University
SUN-PS2-347 P10-0017	High Energy Density and High Safety Lithium-ion Pouch Cells Jyu-Lun Yan, 台灣中油煉製研究所
SUN-PS2-348 P10-0018	Rapid Synthesis of Moderate-Molecular-Weight Poly(Glycolic Acid) via Atmospheric Azeotropic Polycondensation Jian-Yu Lin, Ming Chi University of Technology
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SUN-PS2-352 P11-0003	DFT Investigation of Axial Ligand Effects in the CO₂ Electroreduction on 3d Metal-doped Phthalocyanine Yu-Hung Chiang, CYCU
SUN-PS2-353 P11-0004	Efficient Nitrogen Reduction on Indium Nitride–Supported Transition-Metal Single-Atom Catalysts: Mechanistic Insights from First-Principles Analysis Marwa Tariq, Chung Yuan Christian University
SUN-PS2-354 P11-0005	Reveal the Structure-Packing-Mobility Relationship in ortho-Benzodipyrrole-Based Non-fullerene Acceptors Li-You Lin, National Tsing Hua University

SUN-PS2-355 P11-0006	Establish Computational Protocols for Viscosity Prediction for Polymers: Based on Molecular Dynamics Simulations with Quantum-Mechanical-Derived Forcefields Yu Wei Wu, 國立清華大學
SUN-PS2-356 P11-0007	High-throughput Screening of Metal-Free Organic Photocatalysts for Hydrogen Evolution Reaction Yun-Wei Liu, National Tsing Hua University
SUN-PS2-357 P11-0008	Impact of Water Defects on C₂H₄/C₂H₆ Adsorption Selectivity in UTSA-280 Using Kinetic Monte Carlo Simulation Po-Wen Chiu, National Sun Yat-sen University
SUN-PS2-358 P11-0009	Revealing the Role of Sacrificial Donors in Photocatalytic Hydrogen Evolution Reactions Jia-Qi Gao, National Tsing Hua University
SUN-PS2-359 P11-0010	Simulation of the Influence of Water Defects on Single-File Diffusion of CO₂/N₂ in UTSA-280 Using the Kinetic Monte Carlo Method: Modification and Optimization of kMC Code Chia-Lung Lei, National Sun Yat-sen University
SUN-PS2-360 P11-0011	Effect Of Electrolyte Ions Adsorption By Novel Two-Dimensional Layered Structures For The Development Of Quantum Capacitance: A First Principles Study Shin Chen, Feng-Chia University
SUN-PS2-361 P11-0012	Optimizing Boron Nitride 2D Material Structures to Enhance Adsorption and Stability in Urea Oxidation Reactions Ming-Chun CHIAN, 中國文化大學
SUN-PS2-362 P11-0013	Theoretical Investigation of Charge-Discharge Mechanisms in Lithium-Air Batteries on Double-Tube NiO_x@CNT and RuO_y@CNT Cathodes Ming-Shi Chen, Chinese Culture University
SUN-PS2-363 P11-0014	Theoretical Insights into Solvation Chemistry and Interfacial Stability of Glyme-based Electrolytes in Sodium Metal Anodes Yun-Fang Luo, National Taiwan University of Science & Technology
SUN-PS2-364 P11-0015	Comparative Molecular Dynamics Study of Thiazole Orange Binding with G-quadruplex: Impact of K⁺ and Na⁺ Ion Environments on Probe Dynamics Yeh Hsing chen, National Chung Cheng University
SUN-PS2-365 P11-0016	A Comparative Analysis of Adsorbate Models for Ethane/Ethylene Adsorption in Metal–Organic Frameworks Ting Wei Su, 國立中央大學
SUN-PS2-366 P11-0018	Accelerating the Discovery of High-Efficiency Organic Photovoltaic Acceptors via Fragment-Based Graph Deep Learning Yi Ling Wu, National Central University
SUN-PS2-367 P11-0019	Active-Learning Deep Neural Network Potentials for Predictive Modeling of Li⁺ Transport in High-Energy Lithium-Metal Batteries Chen-Wei Hsu, National Taiwan University of Science and Technology

SUN-PS2-368 P11-0020	Machine Learning-Assisted Sampling of Disordered Argyrodite Electrolytes for Enhanced Li-Ion Conductivity Zhong-Lun Li, National Taiwan University of Science and Technology
SUN-PS2-369 P11-0021	Strain-Driven Topological Phase Evolution in Non-Centrosymmetric LiBaBi Zhen-Yuan Chen, 國立中央大學
SUN-PS2-370 P11-0022	Unveiling the Role of Edge Active Sites in CuO Nanoparticles for Enhanced C₂ Product Formation in CO₂RR Shih-Huang Pan, National Taiwan University of Science and Technology
SUN-PS2-371 P11-0023	Atomistic Insights into Lithium Plating and Interfacial Reactions in Anode-Free Lithium Metal Batteries with PVDF-HFP Solid Polymer Electrolytes Chia-En Lee, National Taiwan University of Science and Technology (NTUST)
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SUN-PS2-373 P11-0025	Electronic Structure Modulation by Curvature Controls the Nitrogen Reduction Reaction on Metal-Decorated Low-Dimensional g-C₃N₄ Tai Wei Lai, Soochow University
SUN-PS2-374 P11-0026	Electronic Properties of V₂NCl₂ and V₂NF₂ MXenes: A DFT Study of Antiferromagnetic Semiconductors Chuan-Siang Wu, Feng Chia University
SUN-PS2-375 P11-0027	Facet-, Defect-, and Size-Dependent Selectivity in CO₂ Electroreduction on BiOCl: A Density Functional Theory Study Ya Yi Chen, National Taiwan University of Science and Technology
SUN-PS2-376 P11-0028	Design and Evaluation of Substituted 2-(2-(Phenyl)hydrazono)cyclohexane-1,3-diones as Potent COX-2 Inhibitors Chin-Peng Chang, Chung Shan Medical University
SUN-PS2-377 P11-0029	Impact of Pore Connectivity and Architecture on Water Adsorption Characteristics in Metal-Organic Frameworks Yen-Ju Chu, National Taiwan University
SUN-PS2-378 P11-0030	Elucidating the Reaction Pathway of HCHO Oxidation on W-Doped δ-MnO₂ FuChuan Cheng, 國立中央大學
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SUN-PS2-381 P11-0033	Developing De Novo D-Peptides Against E. coli via a Hierarchical Antimicrobial and Hemolytic Property Prediction Framework Ming-Yang Tsai, National Central University
SUN-PS2-382 P11-0034	Accelerating the Exploration of Structural Dynamics in Flexible Frameworks via Machine Learning Potentials

	Shang-Wei Lin, National Taiwan University
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SUN-PS2-385 P11-0038	Computational Investigation on the Stereoselectivity and Rate-Determining Step of the Nazarov Cyclization Jia Xin Cheng, Chinese Culture University
SUN-PS2-386 P11-0039	Modulating the Rate-Determining Step of NRR on InS/InSe Heterostructures through Defect-Mediated Active Sites Po Hsun Chen, Feng Chia University
SUN-PS2-387 P11-0040	Rational Design and Screening of Post-Transition Metal COFs for Selective and Efficient Electrochemical Nitric Oxide Reduction: Insights from DFT Calculations Tzu-Hui Chen, Chinese Cultural University
SUN-PS2-388 P11-0041	Strain-Enhanced Metal/C₃N₄ Active Sites for Nitrate Reduction: Unveiling Oxidation Effects and Reaction Feasibility Chun-Ho Chan, 東吳大學
SUN-PS2-389 P11-0042	RO Membrane Design for the Separation of Organic Molecules Cheng-You Wu, 國立臺灣大學
SUN-PS2-390 P11-0043	A Physically Guided Simulation Strategy for Ligand Dissociation from Human Serum Albumin Wei-Hsiang wang, National Chung Cheng University
SUN-PS2-391 P11-0044	A DFT Study of the Electrocatalytic Nitrate Reduction Mechanism on Transition-Metal-Modified GaN Ming-Yan Tsai, Chinese Culture University
SUN-PS2-392 P11-0045	Machine Learning Accelerated Kinetic Modeling of the Hydrogen Evolution Reaction on High-Entropy Alloys: From Adsorption Free Energies to Simulated Polarization Curves Yi Chen, National Tsing Hua University
SUN-PS2-393 P11-0046	Fragmented-Based Machine Learning Models to Improve Photovoltaic Conversion Efficiency Prediction of Organic Dye-Sensitized Solar Cells Ying Ju Wu, 國立中央大學
SUN-PS2-394 P11-0047	Machine Learning Strategies for the Prediction of Pore Characteristics in Metal-Organic Frameworks Bei-En Chen, National Taiwan University
SUN-PS2-395 P11-0048	Accelerating the Discovery of High EQE MR-TADF Materials via Machine Learning Tzu Yi Chiang, National Central University
SUN-PS2-396 P11-0049	From Molecular Representation to Chemical Reasoning: Extended Applications of SMI-TED in Toxicity, Property, and Retrosynthesis Modeling Tienhsiung ku, 靜宜大學

SUN-PS2-397 P11-0050	Influence of Electrolyte Adsorption on the Interfacial Capacitance of MXenes Nitrides in Supercapacitors : A DFT Study Tzu-Ting Chiu, Feng-Chia University
SUN-PS2-398 P11-0051	Graph-Based Learning for Stable Antimicrobial Peptide Design: Incorporating D-Amino Acids and Conformational Flexibility Shao-Chi Wu, National Central University
SUN-PS2-399 P11-0053	A Molecular Modeling Study of PH Domain-Mediated Autoinhibition in Akt Kinase Tzu-En Lin, National Sun Yat-sen University
SUN-PS2-400 P11-0054	Influence of POOH₂-Based Small-Molecule Passivators on the Electronic Properties of Pbl₂-Terminated MAPbI₃ (001) Surfaces: A Periodic DFT Study Pei Shuan Lee, 靜宜大學
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SUN-PS2-402 P11-0056	A Coarse-Grained Simulation Study of Amyloid Fibril Polymorphism Tsai-Wen Yang, National Chung Cheng University
SUN-PS2-403 P11-0058	Development of a Protocol for Predicting Charge Carrier Mobility in Amorphous Polymers via Multiscale Simulation Kuei-Jhong Lin, National Tsing Hua University
SUN-PS2-404 P11-0059	Boron-Doped g-C₃N₄ Nanotubes for Enhanced Carbon Monoxide Reduction Yu-Teng Tsai, 國立臺灣師範大學
SUN-PS2-405 P11-0060	Investigating Surface Hydration Properties and Interaction Networks of Aβ₄₂ Amyloid Fibrils from a Water-Centric Perspective Yu-Cheng Chang, National Chung Cheng University
SUN-PS2-406 P11-0061	Exploring the Binding Interaction of EGCG and Aβ₄₂ Monomer: Insights from MD Simulation Cho-Shun Chen, National Chung Cheng University
SUN-PS2-407 P11-0062	Theoretical Study of FNg-CH=CH-NH₂ (Ng = Ar, Kr, Xe), a Set of Potentially Stable Noble Gas-Containing Molecules Yue-Sheng Liang, National Chung Cheng University
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SUN-PS2-409 P11-0064	Interpreting the CH Stretching Region of Acetaldehyde via Anharmonic Vibrational Analysis Qian-Rui Huang, Academia Sinica
SUN-PS2-410 P11-0065	Stability of Six-Coordinated Al³⁺ Complexes with Water and Organic Ligands Yu Yen Chung, Chinese Culture University
SUN-PS2-411 P11-0066	Rational Design and Structural Characterization of an RNA Aptamer-MC1R Complex for Melanoma Targeting: Integrating Computational Predictions with Experimental Validation

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SUN-PS2-412 P11-0067	Temperature-Dependent Tryptophan Fluorescence in Bovine Serum Albumin: A Combined MD and QM/MM Study I-Shan Hsu, National Chung Cheng University
SUN-PS2-413 P11-0068	Exploring the Secondary Nucleation Dynamics of Amyloid-β Proteins on Fibril Surfaces Using Molecular Dynamics Simulations Guan-Fang Wang, National Chung Cheng University
SUN-PS2-414 P11-0069	Unraveling Cross-Ring Dissociation Mechanisms of Hexoses in Collision-Induced Dissociation Hock-Seng Nguan, Academia Sinica
SUN-PS2-415 P11-0070	Mechanistic Insight into Rh(I)-Catalyzed Enantioselective Vinylative Biscyclization via DFT Calculations Yu-Yen Lin, 國立臺灣師範大學
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SUN-PS2-417 P11-0073	Semi-Transferable Electronic Coupling Prediction in Organic Semiconductor Dimers via a Two-Step Machine Learning Framework Chih-Yung Hou, NTU
SUN-PS2-418 P11-0074	Theoretical Study on the Stability of Noble-Gas-Borole Complexes Pin-Ruei Tseng, National Chung Cheng University
SUN-PS2-419 P11-0075	Designing Chlorine-Resistant High Entropy Alloy Catalysts for Seawater Hydrogen Evolution: A DFT Study YiHao Kao, National Tsing Hua University
SUN-PS2-420 P11-0076	DFT Studies on Single Atom Catalysts Supported on Edge-Functionalized Nanographene for CO₂ Reduction to Methanol Yen-Che Lee, National Tsing Hua University
SUN-PS2-421 P11-0077	Reaction Dynamics Study on the Unimolecular Decay of Methacrolein Oxide (MACRO) Yi-Wen Chen, National Chung Cheng University
SUN-PS2-422 P12-0001	PDA Functionized Au-nanoparticle / TiO₂-nanowire Core-Shell Photoelectrode Enabling Remarkably Enhanced Cardiac Troponin I Detection Chi-Yi Yin, National Chung Hsing University
SUN-PS2-423 P12-0002	Design of Dual-Phase Zinc Titanate with Carbon Black towards Long-Cycling Anode Material for Lithium-Ion Batteries Rong-Lieh Wang, National Chung Hsing University
SUN-PS2-424 P12-0004	Exploring Fluorescent Properties of Novel Nitroaromatic Compounds Catalyzed by Nitroreductase Bo-Chen Lee, National Chung Hsing University
SUN-PS2-425 P12-0005	Subunit Protein Characterization and Clinical Applications of Active Efflux Pump Systems in Multidrug Resistant Gram-Negative Bacteria Yen-Chi Wang, National Chung Hsing University

SUN-PS2-426 P12-0006	Facile Access to Bis(2-pyrimidinyl) Disulfides Using 3,4-Dihydropyrimidine-2-thione Through Electrochemistry Wen-Ling Liao, 中興大學
SUN-PS2-427 P12-0007	Efficient Synthesis of Symmetric and Unsymmetric Disulfides via Bunte Salts under Electrochemical Conditions Tzu-Ying Sung, 中興大學
SUN-PS2-428 P12-0008	Development of SrTiO₃/Al/Ov/Au Composite for Broadband Photocatalytic Enhancement Yi Han Huang, National Chung Hsing University
SUN-PS2-429 P12-0009	Copper-doped Manganese Dioxide Hierarchical Flower-Like Nanospheres: Synthesis and Their Electrocatalytic Performance for CO₂ Reduction Li-Wen Chuang, National Chung Hsing University
SUN-PS2-430 P12-0010	Precisely Synthesized Poly(ethylene glycol)-block-poly(γ-benzyl-L-glutamate) Diblock Copolymers as Solid Polymer Electrolytes for Lithium Metal Batteries Syuan Yu Lin, National Taiwan University
SUN-PS2-431 P12-0011	RNA Condensates Enhance the Thermal Stability of the Squash Aptamer in Prebiotic Conditions Scott Kuan-Ju Fu, 中興大學
SUN-PS2-432 P12-0012	Dinuclear Nickel Catalysts Featuring N-Phenyl-Substituted Benzimidazole-Derived Phenolate Ligand for CO₂/CHO Ring-Opening Copolymerization Pin-An Ko, National Chung Hsing University
SUN-PS2-433 P12-0013	DMPO Binding Site Controls Iron–Oxo Generation and Triggers Ligand Self-Hydroxylation via O–O Heterolysis Yu-Xun Kang, National Chung Hsing University
SUN-PS2-434 P12-0014	Mechanistic Study of the Reaction between Imidazole Ligated Saddle Shaped Iron Porphyrins and Cumene Hydroperoxide: Investigation of O–O Bond Cleavage Modes and Catalytic Activity. Pin Cheng Su, National Chung Hsing university
SUN-PS2-435 P12-0015	Ribozyme-Mediated RNA Lipidation as a Covalent Strategy to Modulate Membrane Permeability and Lipid Packing Cheng-Xin Yang, NCHU
SUN-PS2-436 P12-0016	RNA Condensates Enable Ribozyme Activity Across Extreme Thermal Ranges via Tunable Electrostatic Networks Yi-Chiao Chang, 國立中興大學
SUN-PS2-437 P12-0017	Divergent Cation Sensitivities in Self-Aminoacylation Ribozymes where Ionic Radius and Charge Density Modulate Catalytic Efficiency Thong You Lai, 國立中興大學
SUN-PS2-438 P12-0018	Ion-Modulated Structural Stability and Functional Responses of Self-Aminoacylating Ribozymes under UV-C Irradiation Xin-Yu Huang, National Chung Hsing University
SUN-PS2-439 P12-0019	Global RNA Architecture Masks the High Intrinsic Magnesium Affinity of the Self-Aminoacylating Ribozyme Core

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SUN-PS2-440 P12-0020	Zinc-Mediated Phase Separation as a Mechanism for Ribozyme Concentration and Activity in Localized Prebiotic Environments Yun-Jung Lin, National Chung Hsing University
SUN-PS2-441 P12-0021	Distinguishing Global Folding from Local Active-Site Dynamics in Ribozymes under Divalent Ion and UV-C Stress Kai-Hsuan Chang, National Chung Hsing University
SUN-PS2-442 P12-0022	Nickel-Catalyzed Decyanative Fragment Relay Coupling of Aminonitriles with Propargylic C–O Electrophiles Guan-Ting Chen, National Chung Hsing University
SUN-PS2-443 P12-0023	Quantifying the Impact of Evaporative Concentration on Reaction Acceleration in Acoustically Levitated Microdroplets Chung-Chieh Wu, 國立中興大學
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	Mayu Yonekawa, The University of Tokyo
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SUN-PS2-458 P12-0038	Quantitative Assessment of PFOA Toxicology in a Drosophila Melanogaster-Based Model Sota Tokinori, The University of Tokyo
SUN-PS2-459 P12-0039	Quantitative Investigation of Highly Li⁺ Conduction Interface In Li(FSA)(SN)₂-Porous Al₂O₃ Composite Tomoaki Okochi, The University of Tokyo
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SUN-PS2-465 P11-0017	Exploring the Oxygen Evolution Reaction (OER) Activity and Coverage Effects on FeCoNiCu High-Entropy Alloy Surfaces: A DFT Study Hsing Ju Chiang, Feng Chia University