POSTER SESSION II – March 9 (DAY 2)

PE-無機化學 (Inorganic Chemistry)	
SUN-PE-001 P1-0013	**Synthesis and Reactivity Study of m-Terphenyl Substituted Borinium Cation** Bo-An Chen, National Taiwan University
SUN-PE-002 P1-0029	**Amino-Boryloxy Aluminum Complexes: Synthesis and Catalytic Applications in Ring-Opening Polymerization** yun-chi Chang, Providence University
SUN-PE-003 P1-0032	**Synthesis and recognition behavior studies of benzimidazole derivative containing quinoline moiety** 謝維晉, Chaoyang University of Technology
SUN-PE-004 P1-0052	**Synthesis and Structural Characterization of 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-PE-005 P1-0054	**Synthesis and Catalytic Investigation of N-Heterocyclic Carbene Palladium Complexes Incorporating Hexamethylenetetramine Ligands in Suzuki Coupling Reactions** Zi-Yi Zheng, Providence University
SUN-PE-006 P1-0056	**Hydrophobic Ag Nanowires enable Industrial Electrocatalytic Carbon Dioxide Reduction to Carbon Monoxide** Shuo-Peng Lin, national yang ming chiao tung university
SUN-PE-007 P1-0057	**Structural Characterization and Properties of Co(II) metal-organic frameworks (MOFs) constructed by 1,3,5-tris(4-pyridylsulfanyl-methyl)2,4,6-trimethyl-Benzene (L1) and di-carboxylated Ligands** Tsai-Ni Chen, Soochow University
SUN-PE-008 P1-0059	**Synthesis of a novel amino boroyl oxide zinc complex and its catalytic study in ring opening polymerization** Pei Yu Lin, Providence University
SUN-PE-009 P1-0062	**Ring Opening Polymerization of Epichlorohydrin, Tert-butyl Glycidyl Ether and Copolymers Catalyzed by Aluminum Complexes Bearing 1,1,1-trimethyl-N-aryllsilanamine Derivatives** Fei Huang, Kaohsiung Medical University
SUN-PE-010 P1-0065	**Structural Diversity and Property of Six 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)** Wanghsiao Ling, Department of Chemistry
SUN-PE-011 P1-0077	**Structural Diversity and Property of Six Solvent-dependent 2D or 3D Coordination Polymers Constructed by [Co(NCS)2] with 1,4-bis(4-pyridyl)-2,3-diaza-1,3-butadiene (4-bpd) Ligands** 宋玟瑩, Soochow University
SUN-PE-012 P1-0083	**Design of High-Efficiency Blue-Green and Near-Infrared Iridium(III) Complexes in Light-emitting Electrochemical Cells(LECs)** 李昀蓉, Providence University
SUN-PE-013 P1-0084	**Microwave-Assisted Synthesis of PtNiW/rGO for Direct Methanol Fuel Cells: Effect of Metal Ratios** Chin-Jou Liu, National Pingtung University
SUN-PE-014 P1-0085	**Assembly of Two 3D Metal-Organic Frameworks Based on A Flexible Tripodal Thioether-based Pyridyl Ligand and 4,4'-Sulfonyldibenzoic Acid: Structural Characterization and Thermal Stability** Yu-Hsuan Hou, Soochow University

PE-無機化學 (Inorganic Chemistry)	
SUN-PE-015 P1-0091	**Development of Porphyrin-Fused N-heterocyclic Carbene-Modified Monometallic and Bimetallic Nanoparticles and Their Potential Applications** Anyu Yang, Kaohsiung Medical University
SUN-PE-016 P1-0094	**Phosphorus Doped FeCo Layered Double Hydroxides as Efficient Catalysts for Oxygen Evolution Reaction** Wei-Ting Lai, National Taipei University of Technology
SUN-PE-017 P1-0098	**Quantum-Dot-Based Room-Temperature Operable Short-Wave Infrared Detection: From Synthesis To Practical Applications** Chiao Nien, National Taiwan University
SUN-PE-018 P1-0105	**Structure determination and physical property study on water-soluble ligand apytz and its chelating compounds $M(apytz)_2(H_2O)_2 \cdot 4H_2O$ (M= Fe, Zn)** Yucheng Su, NaNational Taipei University of Technology
SUN-PE-019 P1-0115	**Voltammetric and Electrochemical Impedance Spectroscopic Study on Organic Semiconductor Electrodes for Energy-Related Applications** Cian-Yu Huang, Providence University
SUN-PE-020 P1-0117	**Acyl-N Bond Activation in Twisted Amide: Palladium-Catalyzed C-C Bond Coupling using Thermochemistry and Mechanochemistry** LiuYu Hsiang, Providence University
SUN-PE-021 P1-0118	**Structure and magnetic properties of two fes layered coordination polymers** Wan-Chi Yang, Tunghai Unviersity
SUN-PE-022 P1-0119	**Structures and magnetic properties of Co(II), Mn(II) and Ni(II)-based sql and hcp two-dimensional coordination polymers** Min-Hsun Hsieh, Tunghai Unviersity
SUN-PE-023 P1-0122	**Effective Palladium Precatalyst for Amination Reactions in Organic Solvent or Solvent-free Conditions: Mechanism and Applications** Bo-Yu Chen, Providence University
SUN-PE-024 P1-0123	**Flexible Energy Storage Device Synthesized with Novel Electrochromic Prussian Blue Electrode and Piezoelectric Self-Charging Electrolyte** Yun-Liang Chen, Providence university
SUN-PE-025 P1-0125	**Ru(II)-p-cymene complexes: selective and potent organometallic agents for triple-negative breast cancer** Xin Wang, Chang Jung Christian University
SUN-PE-026 P1-0130	**Development of a flexible and self-charging electrochemical energy device combining paper electrode coated with a conductive polymer polypyrrole and a multifunctional zinc-ion solid electrolyte** Zhe-Yu Chen, Providence University
SUN-PE-027 P1-0131	**Deposition of Textured Ta3N5 Films via Topotactic Transformation for Investigating Anisotropic Optoelectronic Properties** Shin-Yu Chen, National Taiwan University
SUN-PE-028 P1-0132	**Zinc-Organic Frameworks Based on Dipyridyl and Dicarboxylate Ligands: Synthesis, Structures, Properties** Meng-Wei Lin, National Chi Nan University
SUN-PE-029 P1-0135	**Two-fold Interpenetrated and Non-Interpenetrated Ring-and-Rod Structures** Jian Cen Li, National Chi Nan University
SUN-PE-030 P1-0141	**Synthesis, Crystal Structures, and Properties of Cobalt(II) Coordination Polymers Bridged by Chlorine and Bromine Ligands with 4-(2-Pyridyl) Pyrimidine** Wei-Duo Lan, Tunghai Unviersity

PE-無機化學 (Inorganic Chemistry)	
SUN-PE-031 P1-0144	**Synthesis, Structures, and Properties of Copper(II) Carbazolylacetate Coordination Polymers Bearing 4,4'-Bipyridine or Pyrazine Ligand** Li-Wu Hu, National Chi Nan University
SUN-PE-032 P1-0152	**Advanced polyaniline/graphite composite materials as high- performance counter electrodes for dye-sensitized solar cells** Liao Yu Chen, Providence University
SUN-PE-033 P1-0162	**Investigation of Hydrogen / Oxygen Evolution Reaction on Iron Doped Cobalt Phosphide** Min-Si Lee, National Taiwan Normal University
SUN-PE-034 P1-0163	**Performance of graphene-iridium complex in C-N bond formation** Yi-Siou Tsai, National Pingtung University
SUN-PE-035 P1-0001	**Preparation and Property Studies of Cellulose Nanofiber/MOF Composites** Junjay Lai, Fu Jen Catholic University
SUN-PE-036 P1-0002	**Preparation, Property Studies of Hydrophilic Polyurethane/(Cu-S)n MOFs Composites** Yao-ting Huang, Fu Jen Catholic University
SUN-PE-037 P1-0003	**Effective Improvement the Device Efficiency by Two Dimensional Metal Organic Framework Doped Zinc Oxide Electron Transport Layer for Organic Photovoltaics** Wen Ling Kan, Fu Jen Catholic University
SUN-PE-038 P1-0004	**Novel Cobalt(III)/Silver(I) Heterodinuclear Complexes: Effective Catalysts for Copolymerization of CO_2 with Terminal Epoxides** Guan Lin Liu, National Chung Hsing University
SUN-PE-039 P1-0005	**Design of Cu@CCC Catalyst with Molecular Cage Encapsulation for Improved Selectivity and Stability in CO_2 Reduction** Tzu-Chiao Huang, National Yang Ming Chiao Tung University
SUN-PE-040 P1-0006	**Design and Catalytic Applications of 432 Au Helicoid Nanomaterials in Photocatalysis and Chiral Synthesis** Chun-Wen Lin, National Yang Ming Chiao Tung University
SUN-PE-041 P1-0007	**Unveiling Growth Mechanism and Catalytic Applications of Chiral Metal Nanoparticles** Yun-Hao Chen, National Yang Ming Chiao Tung University
SUN-PE-042 P1-0008	**Copolymerization of Carbon Dioxide with Cyclohexene Oxide by Novel Dinuclear Nickel Complexes Containing Benzimidazole-based Phenolate Ligands** Bing-Hong Wang, National Chung Hsing University
SUN-PE-043 P1-0009	**Dispersed Ru, Ni, Co single atoms on different oxides catalysts for ammonia decomposition reaction** Shih-Yu Yuan, National Yang Ming Chiao Tung University
SUN-PE-044 P1-0010	**Encapsulating Metal Nanoparticles in Multi-Shelled Metal-Organic Frameworks for Catalytic Reactions** Yun-Sheng Lin, National Yang Ming Chiao Tung University
SUN-PE-045 P1-0011	**Comparative Study of Two Trimetallic Catalysts in RWGs & FT Reaction for CO_2 Conversion** Tai-Chun Chang, National Yangming Chiaotung University
SUN-PE-046 P1-0012	**Investigation of Metallic Nanostructures by X-Ray Ptychography** Ching-Yi Chou, National Yang Ming Chiao Tung University
SUN-PE-047 P1-0014	**Metal-BINOL Nanostructures for Electrochemical Reaction in Alkaline Media** Yu-Chung Chang, National Yang Ming Chiao Tung University
SUN-PE-048 P1-0015	**Topological Investigation on the Cd(II) Coordination Polymers Containing Bis-pyridyl-bis-amide and Tetracarboxylate ligands** Yen-Hsin Chen, Chung Yuan Christian University

PE-無機化學 (Inorganic Chemistry)	
SUN-PE-049 P1-0016	**Evaluation of the Crystal Structures of Zn(II) and Co(II) Coordination Polymers Containing Bis-pyridyl-bis-amide and Biphenyl-3,3',5,5'-tetracarboxylate Ligands** Zhi-Ling Chen, Chung Yuan Christian University
SUN-PE-050 P1-0017	**Thermodynamic Control of Facet-Selective Cu@CuAu Core-Shell Bimetallic Nanoparticles for CO_2 Reduction Reaction** Ruei-Hung Juang, National Yang Ming Chiao Tung University
SUN-PE-051 P1-0018	**One-pot syntheses of chiral metallic-BINOL hybrid nanocatalyst** Tony Lee, National Yang Ming Chiao Tung University
SUN-PE-052 P1-0019	**Self-Assembly and Property Studies of $(Cu\text{-}S)_6$ Metal Clusters** Shun Yi Chang, Fu Jen Catholic University
SUN-PE-053 P1-0020	**One-Pot Synthesis of Copper-Based Trimetallic Nanoframes for Catalytic Applications** Hsing-Ye Chen, National Yang Ming Chiao Tung University
SUN-PE-054 P1-0021	**Using CuBr as Hole-Transporting Material for High-Efficiency Inverted Tin Perovskite Solar Cells** I-Ching Chu, National Central University
SUN-PE-055 P1-0022	**Low-Cost, High-Performance SnO_2 ETL for Lead Perovskite Solar Cells** Rong-Gui Wu, National Central University
SUN-PE-056 P1-0023	**Synthesis of Photochromic Ruthenium Complexes for Dye-Sensitized Solar Cells** Yi Ming Chen, National Central University
SUN-PE-057 P1-0024	**Engineering Catalysts with Rhombic Dodecahedral Trimetallic Nanocrystals for Enhanced CO_2 Reduction to Multi-Carbon Product** Pei-En Wang, National Yang Ming Chiao Tung University
SUN-PE-058 P1-0025	**Study on the Synthesis of Fluorescent Eu-MOF/PI Composite Materials by Combining Fluorescent Eu-MOF and PI for anticorrosion and Early Corrosion Detection through Fluorescence Monitoring** Kunling Teng, Fu Jen Catholic University
SUN-PE-059 P1-0026	**Tuning the Structures and Luminescent Properties of Alginate Hydrogels via Pre-Coordinated Lanthanide Complexes** 蘇昱嘉, National Taiwan University
SUN-PE-060 P1-0028	**Synthesis and identification of Ni/Pd/Pt metal complexes** Miao Hsuan Chen, Fu Jen Catholic University
SUN-PE-061 P1-0030	**Aluminum complexes bearing quinazolinone-derived NO-type ligands applied in ring-opening polymerization of ε-caprolactone** Chi-Tien Chen, National Chung Hsing University
SUN-PE-062 P1-0031	**Investigations and Applications of Iron Sulfur Complexes** Chao-Yi Chiang, Providence University
SUN-PE-063 P1-0033	**Mini Light-Emitting Diode Technology with High Quantum Efficient NIR-II Partially Inverse Spinel $MgGa_2O_4$:Cr_3+,Ni2+ Nanophosphors** Tzu-Hsuan Liu, National Taiwan University
SUN-PE-064 P1-0034	**Unraveling Structural Evolution and Atmospheric Stability via In Situ Characterization of Li3InCl6 Solid-State Electrolytes Synthesized through Coprecipitation Strategy** Josanelle AngelaVillanueva Bilo, Research Center for Applied Sciences
SUN-PE-065 P1-0036	**Chiral Heavy Metallylenes Catalyzed Asymmetric Hydroboration of Ketones** Li-Hui Hong, National Taiwan university
SUN-PE-066 P1-0037	**C-H Bond Activation Using Metal-Organic Frameworks and Heterogenization of Homogeneous Catalysts** Xin-Yi Lin, National Taiwan Normal University

PE-無機化學 (Inorganic Chemistry)	
SUN-PE-067 P1-0038	**Pressure/temperature-assisted crystallographic engineering–A strategy for developing the infrared phosphors** Yiting Tsai, Academia sicica
SUN-PE-068 P1-0039	**Photochemical C(sp3)-H Bond Hydroxylation with Mononuclear Fe(TAML) Complexes** Kuan-Yu Lu, National Tsing Hua University
SUN-PE-069 P1-0040	**Phase-Engineered Dichalcogenides/Fluorine-Free V4C3Tx (T = OH, O) Heterostructures for pH-Universal Hydrogen Evolution Reaction** Shabana Neermunda, National Taiwan University
SUN-PE-070 P1-0041	**Chiral Bis(oxazoline) Ligand Stabilized Germylium-ylidene and Stannylium-ylidene Catalysts** YuLun Hsieh, National Taiwan University
SUN-PE-071 P1-0042	**Syntheses of Di-Substituted Aluminum Radicals** Yi Hsuan Tsai, National Taiwan University
SUN-PE-072 P1-0043	**Homogeneous Electrochemical Water Oxidation Catalyzed by Dimeric Cobalt Complexes with Electron-Proton Transfer Mediators (EPTMs)** Yu-Lin Chi, National Tsing Hua University
SUN-PE-073 P1-0044	**Photovoltaic properties of dye-sensitized solar cells assembled using the organic photochromic dye NW-1 as the sensitizer.** Yan-Jing Li, National Central University
SUN-PE-074 P1-0045	**Exploring Dehydration Mechanisms and Conductivity Optimization in Li3InCl6·xH2O via In-Situ Synchrotron Techniques** Jheng-Yi Huang, National Taiwan University
SUN-PE-075 P1-0046	**Characterizations of [FeII(EBC-2R)(OTf)2] and reactivity studies of corresponding FeIV-oxo species** Yi-Hsin Chen, National Kaohsiung Normal University
SUN-PE-076 P1-0047	**Research on Bidentate Mesoionic Carbenes and the First-row Transition Metal Complexes** Yu-Jie Wang, National Sun Yat-sen University
SUN-PE-077 P1-0048	**Exploring the Spin and Optical Properties of Mn-Doped CdSe$(en)_{0.5}$ Monolayer Quantum Materials for Applications in Quantum Sensing and Spintronics** Chi-Ching Tung, National Taiwan Normal University
SUN-PE-078 P1-0049	**Development of Sterically Demanding Bioxazoline Ligand and Bioxazoline-Derived N-Heterocyclic Carbene Ligand for the Synthesis of Transition Metal Complexes** Yi-Ching Chou, National Sun Yat-sen University
SUN-PE-079 P1-0050	**Pyrrolidine-2-iminato Phosphine and Its Complexes** Guan-Zhou Lin, National Sun Yat-sen University
SUN-PE-080 P1-0051	**Aluminium complexes supported by bulky amino imidazoline-2-imine ligand as precursors for catalytic guanylation reactions of carbodiimides** Ting-Wei Chang, National Sun Yat-sen University
SUN-PE-081 P1-0053	**Anatase-Rutile TiO_2@V_4C_3Tx MXene for Omnidirectional Electrocatalytic Water Splitting** Muhsin Punnoli, National Taiwan University
SUN-PE-082 P1-0055	**A dual chemosensor for highly selective and sensitive visual detection of Zn^{2+} and Cu^{2+} and its bioimaging applications** Keerthika Kumarasamy, Chaoyang University of Technology
SUN-PE-083 P1-0058	**One-pot Self-assembly of Homo- and Heterobimetallic 2D and 3D Supramolecular Architectures** Alisha Rani, National Taiwan University

PE-無機化學 (Inorganic Chemistry)	
SUN-PE-084 P1-0060	**Formation of Porphyrin-Fused N-heterocyclic Carbene Monolayers: Electrochemical Catalysis and Behavior Analysis via DFT Calculations** Meng-Xuan Lin, Kaohsiung Medical University
SUN-PE-085 P1-0061	**Synthesis, Structural Characterization of three 3D M(II) MOF Constructed by Oxalate ($C_2O_4^{2-}$) and 1,3,5-tris(4-pyridylsulfanylmethyl)-2,4,6-trimethylbenzene (tpsmb) Ligands** Bin-Yu Lu, Soochow University
SUN-PE-086 P1-0063	**Syngas Production from Dry Methane Reforming over Ni-based Catalyst** 曾玉如, CPC Corporation, Taiwan
SUN-PE-087 P1-0064	**Surfactant-Mediated Enhancement of Electrochemical CO_2 Reduction to Formate Using a 3D Porous BiOCl Catalyst** AsiaAbou-Taleb abdelgalil, academia sinica
SUN-PE-088 P1-0066	**Self-Assembly of Pseudorotaxanes via Terpyridine-Based Macrocycles** De Sheng Chen, National Taiwan University
SUN-PE-089 P1-0067	**Solvent-Induced Hierarchical Self-Assembly of Triptycene-Based Metallo-Cuboctahedrons Revealed by Cryo-EM** Guan-Sian Lee, National Taiwan University
SUN-PE-090 P1-0068	**Chiral Rhombic Triacontahedrons Self-assembled from Corannulene-based Ligands** Yu-Xiang Huang, National Taiwan University
SUN-PE-091 P1-0069	**Synthesis, Structures, and Luminescent Properties of Two Isostructural Zincophosphate Frameworks Including Anionic Guests** Jia-Yi Jian, National Taiwan Ocean University
SUN-PE-092 P1-0070	**Synthesis, Structures, and Sensing Properties of New Polymorphic Cobalt Phosphites** Ying-Ting Wang, National Taiwan Ocean University
SUN-PE-093 P1-0071	**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-PE-094 P1-0072	**Synthesis, Characterization and Reactivity of a Mononuclear Cobalt(III)-Superoxo Complex** Yuhan Tsai, National Taiwan Normal University
SUN-PE-095 P1-0073	**Stepwise Self-assembly of Bimetallic Octahedral Molecular Cages** Po-Tan Huang, National Taiwan University
SUN-PE-096 P1-0074	**Synthesis of NiO-MgO catalysts reducible under hydrogen atmosphere at particularly low temperature** Yun Hsuan Tsai, National Cheng Kung University
SUN-PE-097 P1-0075	**Plant growth modeling and response from broadband phosphor-converted lighting for indoor agriculture** Ting-Yi Su, National Taiwan University
SUN-PE-098 P1-0076	**Design and Application of a Zinc-Based Coordination Frameworks for Stability Assessment and Electrochemical Sensing** Yu-Hsun Yang, Academia Sinica
SUN-PE-099 P1-0078	**Ambiphilic Chiral Aluminum Cations-Catalyzed Enantioselective Michael Additions** Chao-An Liu, National Taiwan University
SUN-PE-100 P1-0081	**Structural Characterization and Water Vapor ad-/de-sorption Isotherms of two 2D Zn(II) MOFs Constructed by tripodal thioether-based pyridinyl-type Ligand and V-shape Dicarboxylate Ligands** Yu-Chen Chung, Soochow University

PE-無機化學 (Inorganic Chemistry)	
SUN-PE-101 P1-0082	**Self-assembly of Functional Supramolecular Icosahedral Capsids Using Porphyrin- and Corannulene-based Terpyridine Ligands** Kwun-Yung Cheung, National Taiwan University
SUN-PE-102 P1-0086	**Unexpected Magnetic Moments and Tunable Photoluminescence in Mn^{2+}-Doped $(CdSe)_{13}$ Nanoclusters for Spintronic Applications** Nagaraju Narayanam, National Taiwan Normal University
SUN-PE-103 P1-0087	**The Research of CO_2-to-Methanol Catalyst** Yen-Hao Lin, CPC Corporation, Taiwan
SUN-PE-104 P1-0088	**Efficient H_2O_2-based Propylene to Propylene Oxide (HPPO) Reaction Catalyzed over ZnO/ZnO_2 Materials** Gebretinsae Yeabyo Nigussie, Academia Sinica
SUN-PE-105 P1-0089	**Reaction chemistry of low valent chromium complexes of PNP** Yu-Shan Wang, National Sun Yat-sen University
SUN-PE-106 P1-0090	**Unsymmetric Bis-NHC: Pioneering New Frontiers in Heterobimetallic Nanoparticle Design** Hanyu Nong, Kaohsiung Medical University
SUN-PE-107 P1-0092	**Development of Nickel Complexes for Photocatalytic Hydrogen Evolution** Pei-Juan Liao, National Cheng Kung University
SUN-PE-108 P1-0093	**Solvent-Free Mechanochemical Approach in Palladium-Catalyzed Alcohol Oxidation** Lyu Han Lan, National Chung Hsing University
SUN-PE-109 P1-0095	**Application of CoP Catalyst in NO_3RR and CO_2RR for Urea Production Performance Study** YI-Ting Hsu, NaNational Taipei University of Technology
SUN-PE-110 P1-0096	**Synthesis of Cobalt Oxyhydroxide (CoOOH) : An Efficient Electrocatalyst for Oxygen Evolution Reaction** Pantita Prapamonton, Materials Science and Engineering
SUN-PE-111 P1-0097	**Synthesis of cobalt phosphide electrocatalysts for high efficient electrochemical nitrate reduction to ammonia under alkaline** 許鈞凱, NaNational Taipei University of Technology
SUN-PE-112 P1-0099	**Preparation of tin-lead mixed perovskite films by two-step method for application in perovskite solar cells** Bo-Zhen Chen, National Central University
SUN-PE-113 P1-0100	**Coordination Behavior of Pyridine-derived Tridentate Ligands on Fe/Co Complexes** Tzu-jin Lin, National Taipei University of Technology
SUN-PE-114 P1-0101	**Structure Characterization by Powder X-ray Diffraction on FeII Metal Complexes Chelated by 2-(2-(3-Bromophenyl))-1H-Tetrazol-5-yl)Pyridine Ligand** Yang-pei Zheng, National Taipei University of Technology
SUN-PE-115 P1-0102	**Structure Characterization by Powder X-ray Diffraction and X-ray Absorption Spectroscopy on Iron(II) Complexes based on Fluorobenzyl Tetrazole Ligand** Feng-Hua Ho, NaNational Taipei University of Technology
SUN-PE-116 P1-0103	**Structure characterization of spin crossover Fe(II) complex isomers containing NTP ligands** Jia Yu Lin, National Taipei University of Technology
SUN-PE-117 P1-0104	**Characterization, Reactivity and Catalytic Properties of New Rhenium Carbonyl Complexes with Carbodicarbene ligands** Charasee Dayawansa, National Sun Yat Sen University

PE-無機化學 (Inorganic Chemistry)	
SUN-PE-118 P1-0106	**Preparation and Characterization of Zn-Al-LDH & Mg-Al-LDH@ SiO_2/Polycarbonate Nanocomposites by Micro-compounding Process** De-Qian Chen, Chung Yuan Christian University
SUN-PE-119 P1-0107	**Preparation and Characterization of Polystyrene Nanocomposites by In-Situ Polymerization with Flame Retardance** Po-Jui Chen, Chung Yuan Christian University
SUN-PE-120 P1-0108	**Exploring novel NCN pincer ligands for nickel complex reactivity tuning and design the ligand in action** Pei-Zhen Xie, National Central University
SUN-PE-121 P1-0109	**Investigating of Photo-Induced Charge-Transfer Behaviors of the Bidentate Cyclometalated-Bridge [Di-Ru]2+/3+ Ions** Li-Ting Zhuo, Fu Jen Catholic University
SUN-PE-122 P1-0110	**Mechanistic investigations of a hydrogen-evolving Cobalt diiminedioxime complex in an oxygen environment: roles of secondary coordination sphere, brønsted acid, and axial Ligand** Yu-Syuan Tsai, National Sun Yat-sen University
SUN-PE-123 P1-0111	**Short-Wave Infrared Phosphors Mg_2SnO_4 Doped with Cr^{3+} -Ni^{2+} -Yb^{3+} Activators** Chia-Lun Wang, National Taipei University of Technology
SUN-PE-124 P1-0112	**Broadband Near-Infrared $MgSc_{2-a}Ga_aS_4$:xCr^{3+} Sulfide Phosphor via Trivalent Cation Substitution** Wan Yun Chu, National Taipei University of Technology
SUN-PE-125 P1-0113	**Synthesis and Characterization of ChalcohalidesPb4Sb4X9Cl2(X=S,Se)** Yenhan Huang, National Yang Ming Chiao Tung University
SUN-PE-126 P1-0116	**Rapid Synthesis of Zirconium Based Metal Organic Frameworks via Solvent Assisted Crystallization** Ciao-Shin Tsai, National Taiwan Normal University
SUN-PE-127 P1-0121	**A High-Sensitivity Platform for Drug Analysis Based on Microarray, Nanoporous Materials, and SALDI Technology** Chung-Chih Tang, National Taiwan Normal University
SUN-PE-128 P1-0124	**Probing structural distortions in facet nanocrystals using high-resolution powder X-ray diffraction** Bo-Hao Chen, National Synchrotron Radiation Research Center
SUN-PE-129 P1-0126	**Stretchable,Self-Healing,and Recyclable Multifunctional Electrolytes Paired with Manganse Oxide Electrode for Supercapacitor Applications** Hung-En Yeh, Providence University
SUN-PE-130 P1-0127	**Voltametric and EIS Analysis of Organic Semiconductor Electrodes for Energy Storage Applications** Ganesh Masilamani, Providence University
SUN-PE-131 P1-0128	**Synthesis and Characterization of a Rhenium Tricarbonyl Complex Incorporating N-Doped Nanographene: Investigation of Structural Alterations Induced by Re(I) Coordination** EldhoseVadakkechalil Varghese, Kaohsiung Medical University
SUN-PE-132 P1-0133	**One-Dimensional Tape-Like Coordination Polymers Based on Hexa- and Tetranuclear Clusters with Varied Coordination Spheres around Zinc(II)** 李佩容, National Chi Nan University
SUN-PE-133 P1-0134	**Lanthanide Coordination Polymers with Tunable Luminescence and White Light Emission** Ying-Hua He, National Chi Nan University
SUN-PE-134 P1-0136	**Investigate the Strongly Correlated Materials Using Resonant Inelastic X-ray Scattering** Yi Li, National Taiwan University

PE-無機化學 (Inorganic Chemistry)	
SUN-PE-135 P1-0137	**Integrating AI and SERS for Enhanced Raman Spectral Analysis of Amino Acids and Illicit Drugs** Chi-Hung Lin, National Taiwan Normal University
SUN-PE-136 P1-0138	**Hidden Frustrated Lewis Pairs based on Carbodicarbene-Borane complexes** Bo-Hong Huang, Academia Sinica
SUN-PE-137 P1-0139	**The Iron Oxide-galactosylated Nanoparticles Used for Photodynamic Therapy and Immunostimulation in Orthotopic Bladder Cancer Treatment** Yu-Cheng Chin, National Cheng Kung University
SUN-PE-138 P1-0142	**Characterization of Fe(II) complexes chelated by 2BTPCl ligand through power x-ray diffraction and x-ray absorption spectroscopy** Yu-Yu Chang, National Taipei University of Technology
SUN-PE-139 P1-0143	**Fabrication of P/N/S-Doped Mesoporous Graphene Oxide Nanoparticles via CO_2 Laser Carbonization and Their Applications in Green Catalysis** Ying-Tong Kuo, National Taiwan Normal University
SUN-PE-140 P1-0145	**Visible-light-driven CO_2 reduction using copper(II) complexes with pyridine-2,6-dicarboxamide scaffolds and thioether moieties** Rui-Ze Xu, National Sun Yat-sen University
SUN-PE-141 P1-0146	**Design and evaluation of new types of copper complexes for CO_2 fixation and electrocatalytic reduction** Jyun-Chi Lee, National Sun Yat-sen University
SUN-PE-142 P1-0147	**Synthesis and Catalytic Application of Silver(I) NHC Complexes Supported on Zinc Oxide Nanoparticles** JingLin Wang, National Chung Cheng University
SUN-PE-143 P1-0148	**A Versatile Carbodicarbene Precursor: Exploring Coordination and Reactivity with Transition Metals and Main Group Elements** Zhe-Xin Wu, National Central University
SUN-PE-144 P1-0149	**Group 9 Dope Silver-rich Superatomic Nanocluster: $Ir(H)Ag_{20}[S_2PR_2/Se_2P(OR)_2]_{12}$ Series** 閻葦嶸, National Dong Hwa University
SUN-PE-145 P1-0150	**Synthesis and Green Applications of NHC-Functionalized Zinc Oxide Nanoparticles.** Chieh-Yu Chen, National Chung Cheng University
SUN-PE-146 P1-0151	**Expanding and Characterization of Bis-(carbone) framework and investigating the Coordination Behaviors** Yin-Zhi Weng, Academia Sinica
SUN-PE-147 P1-0153	**Diastereodivergent Synthesis of Dihydroimidazopyridium Salts Tuned by Solvent and Counteranion Effects** Jiming Ciou, Kaohsiung Medical University
SUN-PE-148 P1-0154	**Generation of Molecular Diversity through a Dynamic Imine System** Zhang En-Chuan, National Dong Hwa University
SUN-PE-149 P1-0155	**Enhanced Electrocatalytic Activity of Flower-like Copper-doped Manganese Dioxide for CO_2 Reduction Reaction** Li-Huei Huang, National Chung Hsing University
SUN-PE-150 P1-0156	**Visible and Near-Infrared Broadband Absorber Based on $SrTiO_3$/Al/OV/Au Composite** Chieh-Ju Hsu, National Chung Hsing University
SUN-PE-151 P1-0157	**Synthesis, Structure, and Antibacterial Activities of Silver Complexes with Pyridyl-N-Heterocyclic Carbenes Hybrid Ligand Scaffolds** Xun-Rong Wang, National Chung Cheng University

PE-無機化學 (Inorganic Chemistry)	
SUN-PE-152 P1-0158	**3D Aerosol Jet Printed titanium dioxide-based photocatalysts with enhanced photocurrent intensity** Yun Hsi Tsai, National Chung Hsing University
SUN-PE-153 P1-0159	**Enhancement of the Electrochemical Performances for Li-ion Batteries in NaBH4-modified TiO_2 Nanostructures through Introduction of Oxygen Vacancies** Yuan-Fu Tsai, National Chung Hsing University
SUN-PE-154 P1-0160	**Aerosol-jet Additive Manufacturing of Porous Titanium Dioxide Structures for Enhanced Photoelectrochemical Performance** Yu-An Su, National Chung Hsing University
SUN-PE-155 P1-0161	**Electrochemical/Cobalt Dual Catalysis for Regioselective Tetramerization of Indoles** Liu Kuan-Te, soochow university
SUN-PE-156 P1-0164	**Regeneration of Tooth Enamel by Novel Inorganic Nanoclusters** Yu-Tai Chiou, Taipei Medical University
SUN-PE-157 P1-0165	**Phosphorus-doped TiO2/NCM811 for Full-cell Lithium-Ion Batteries** Sheng-Kai Chou, National Chung Hsing University
SUN-PE-158 P1-0166	**Synthesis, structure, and non-covalent interactions of the pincered 4-Cl-2FH-ZnI2 complex: weak interactions resulting in chiral crystals with space group of P21/c** Tsai Meng Hsun, National Chung Hsing University
SUN-PE-159 P1-0167	**Ni-doped Silver Superatomic Nanoclusters as HER Electrocatalysts** Yu-Rong Ni, National Dong Hwa University
SUN-PE-160 P1-0168	**Electrochemical-cobalt Dual Catalysis for Ring-expansion and Oxygen Insertion of Indole Derivatives** Kai-Wun Jhang, Soochow University
PF-綠色化學 (Green Chemistry)	
SUN-PF-001 P6-0014	**Material and Optical Properties of Fluorescent Carbon Quantum Dots Fabricated via Hydrothermal Reaction for Heavy Metal Copper ions Detection in Aqueous Media** Miao Wei Lin, Chung Shan Medical University
SUN-PF-002 P6-0019	**Highly Luminescent and Chemically Stable Carbon Dots as Advanced Fluorescent Nanoprobes for Sensitive and Selective Mercury Ion Detection** Yi-Zhen Hung, Chung Shan Medical University
SUN-PF-003 P6-0021	**One-Dimensional Tin Dioxide Nanowires for Ampere-Level Carbon Dioxide Reduction Reaction to Formic Acid** Ching Ya Wang, National Yang Ming Chiao Tung University
SUN-PF-004 P6-0022	**Spatial Confinement Effect of SnO_2 Nanospheres Catalysts Enables Ampere-Level CO_2 Reduction to Formic Acid and Artificial Photosynthesis system** Chi Kang, National Yang Ming Chiao Tung University
SUN-PF-005 P6-0024	**Investigation of the Thermo-Responsive Behavior of Smart Hydrogels Based on Polyethers and Polypeptides** Peng-Wen Chen, Chung Yuan Christian University
SUN-PF-006 P6-0029	**Design and Preparation of Flexible, Stretchable, and Self-Healing Conductive Hydrogels** Chien-Yin Lin, Chung Yuan Christian University
SUN-PF-007 P6-0030	**Pt/WSe_2 composites for photocatalytic CO_2 reduction under different light sources** Wen-Chi Tsai, Providence University
SUN-PF-008 P6-0031	**Synthesis of Pd/WSe_2 Composite Materials for CO_2 Photocatalytic Reduction** You-Cian Lai, Providence University
SUN-PF-009 P6-0032	**Novel Cu/WSe_2 composite for the photocatalytic conversion of CO_2 to methane** Cheng-Hao Wang, Providence University

PF-綠色化學 (Green Chemistry)	
SUN-PF-010 P6-0035	**Redox Active Prussian Blue Nanocrystals to Enhance the Performance of Microbial Fuel Cells** Ying-Chen Lin, Kaohsiung Medical University
SUN-PF-011 P6-0036	**Designing Mo/Cr-based MXenes for Thermoelectric Applications Using DFT Calculations** Fangtzu Chao, National Central University
SUN-PF-012 P6-0040	**Hierarchical Single-Phase Co_9S_8 for Photocatalytic CO_2 Reduction** Chu-Jung Huang, University of Taipei
SUN-PF-013 P6-0044	**Simple Salt-Catalyzed Epoxide Coupling With Carbon Dioxide To Synthesize Cyclic Carbonates** Yi-Nan Yang, Fu Jen Catholic University
SUN-PF-014 P6-0051	**Conductive Polymer Polythiophene Cathode Combined with Novel Multifunctional Ion Gel Electrolyte for Developing Flexible and Fast Self-Charging Electrochemical Energy Storage Devices** Ke-Yun Tong, Providence University
SUN-PF-015 P6-0066	**A Comparative Study of Deep Eutectic Solvent Systems for Extracting Phytochemicals from Three Agricultural Byproducts** 葉馥瑢, Ming-Dao High School
SUN-PF-016 P6-0067	**Extraction of Polyphenolic Compounds from Taiwanese Camellia Oil Using Choline Chloride-Based Deep Eutectic Solvents** 王宥鈞, Ming-Dao High School
SUN-PF-017 P6-0068	**Study of the Hydrogen Production from the Reaction of Aluminum and Water Using Aluminum Hydroxide Synthesized from Different Salts and Conditions** 呂品頤, Chung Yuan Christian University
SUN-PF-018 P6-0069	**Synthesis of Aluminum Hydroxide from Aluminum Sulfate for the Hydrogen Production via Aluminum-Water Reactions** 陳瑞宏, Chung Yuan Christian University
SUN-PF-019 P6-0070	**Study on the Efficiency of Hydrogen Production via Aluminum-Water Reaction Using Hydrogen Peroxide Precipitated Aluminum Hydroxide** 吳恩予, Chung Yuan Christian University
SUN-PF-020 P6-0001	**Synthesis, Characterization and Photocatalytic Applications of CO_2 Reduction and Dye Degradation by Bi_2O_2S and its Composites** YuYun Lin, National Taichung University of Education
SUN-PF-021 P6-0002	**Effect of Counterions on the Electrical, Mechanical, and Antifreeze Properties of Conductive Composite Hydrogels for Flexible Wearable Sensors** Yu Feng Ni, Chung Yuan Christian University
SUN-PF-022 P6-0003	**Enhanced Electrochemical Nitrate Reduction Catalyzed by CuOx@Cd- Coordinated Cage Nanoreactors with suppressed HER Competition.** Jia-Huei Luoh, National Central University
SUN-PF-023 P6-0004	**The Numerical Study of the Effects of Dissolved Carbon Dioxide on the Mineral Composition and Porosity of Subsurface Rock** Yuhung Shih, National Atomic Research Institute
SUN-PF-024 P6-0005	**Photoelectrochemical Oxidation of Small Molecules using BiVO4 Photoanodes** YiWen Chen, National Taiwan University
SUN-PF-025 P6-0006	**Spatial Confinement Enhancement and Orbital Modification of Copper-Aluminum Alloy Encapsulated within Carbon Nanofibers for Ampere-Level Carbon Dioxide Reduction Reaction** Kang-Shun Peng, National Yang Ming Chiao Tung University

PF-綠色化學 (Green Chemistry)	
SUN-PF-026 P6-0007	**Hollow Multi-Shelled Cuprous Oxide with Multiple Confined Spaces Enables Highly Efficient Carbon Dioxide Reduction Reaction to Ethylene** Yung-Hsi Hsu, National Yang Ming Chiao Tung University
SUN-PF-027 P6-0008	**Synthesis of multiporous carbon from industrial waste bakelite via impregnation method for supercapacitor application** Chun-Han Hsu, National Tainan Junior College of Nursing
SUN-PF-028 P6-0009	**Modulating the structural and mechanical properties of luminescent triple-crosslinked gelatin/alginate hydrogels through lanthanide ions for sensing applications** Shu-Ying Wu, National Taiwan University
SUN-PF-029 P6-0010	**Metal-Organic-Framework-Derived Graphene-Copper Composite Catalyst for High Efficicent Carbon Dioxide Reduction Reaction to C2 Products** Yu-Jhih Shen, National Yang Ming Chiao Tung University
SUN-PF-030 P6-0011	**Photocatalytic Synthesis of Gold Nanoparticles Using Deep Eutectic Solvent and Phosphotungstic Acid** Luncheng Yuan, Tunghai Unviersity
SUN-PF-031 P6-0012	**Enhancing Sustainable Phosphate Release from Humic Acid-Iron Hydroxide Coprecipitates with Citric Acid: Mechanisms and Environmental Significance** Mahmoud Ahmed, National Chung Hsing University
SUN-PF-032 P6-0013	**Hydrophobic-Molecule-Modified Copper Oxide Nanotube Catalysts for Ampere-Level Carbon Dioxide Reduction Reactions to C2 Products** Yuchia Chang, National Yang Ming Chiao Tung University
SUN-PF-033 P6-0016	**Separable Quantum Dot-Polymer Composites: Combining Quantum Dots with Dynamic Covalent Bonds** Meng-Yu Lin, National Taiwan University
SUN-PF-034 P6-0017	**Non-Equivalent Iodide Ions Boosting the Bismuth-Based Catalysts to Achieve Industrial Carbon Dioxide Reduction to Formic Acid** Ming Hsuan Li, National Yang Ming Chiao Tung University
SUN-PF-035 P6-0020	**Synthesis of Nitrogen-Doped Carbon Quantum Dots via a Solvothermal Method for Cobalt Ion Detection in Wastewater** Hung-Yen Tang, Southern Taiwan University of Science and Technology
SUN-PF-036 P6-0023	**Synthesis of Copper Nanomaterials Using Choquette Avocado Seed Extract and Applications** Yu Cheng Hsieh, National Chiayi University
SUN-PF-037 P6-0025	**Two-Dimensional ZIF-67/MoS_2/NF as a High-Performance Catalyst for Overall Water Splitting in Sea Water** Wan-Yi Chen, National Cheng Kung University
SUN-PF-038 P6-0027	**Study on catalytic degradation of 4-nitrophenol using metal-modified zirconium-based metal-organic framework** Yu-Jhih Dai, Chung Cheng Institute of Technology, National Defense University
SUN-PF-039 P6-0028	**Catalyst-free molecular editing of 5-alkynyl-1,2,3-triazines access to functionalized thiophenes** 張家豪, National Central University
SUN-PF-040 P6-0033	**A rational substituent approach to access product life cycle sustainability of dehydropolysaccharide** Yi Hsuan Lin, National Cheng Kung University
SUN-PF-041 P6-0034	**The effect of interfacial water on product selectivity in electrochemical CO_2 reduction** Yi Ting Xie, National Tsing Hua University

PF-綠色化學 (Green Chemistry)	
SUN-PF-042 P6-0037	**Synthesis of Eco-Friendly Green Building Materials from Wasted Oyster Shells: The Innovation of Oyster-Shell Based Lime Putty** Shih-Cheng Sun, National Cheng Kung University
SUN-PF-043 P6-0038	**One-Pot Synthesis of Nitrogen-doped Graphite-like Multiporous Carbon with Large Specific Surface Area, Rich Nitrogen Content and High Conductivity from Biochar for Dye Adsorption and Supercapacitor Applications** Shu-Sian Wang, National Cheng Kung University
SUN-PF-044 P6-0039	**Combining Acrylamide Hydrogel with CdSe/ZnS Quantum Dots for Detecting Mercury Ion Concentration in Solution** RuWei Yang, National Kaohsiung University of Science and Technology
SUN-PF-045 P6-0041	**Enhanced Photocatalysis under Simulated Sunlight Irradiation by WO3-x Synthesized with Different Cations** Shao-Ying Lin, National University of Kaohsiung
SUN-PF-046 P6-0042	**NiO-Based Catalyst supported with Exfoliated $KCa_2Nb_3O_{10}$ Nanosheets for Hydrogen Production via Oxidative Steam Reforming of Ethanol (OSRE)** Wu Chen, National Yang Ming Chiao Tung University
SUN-PF-047 P6-0043	**Effects of Supporting Materials on NiO-Based Catalysts for Oxidative Steam Reforming of Ethanol (OSRE)** Wei Ru Tsai, National Yang Ming Chiao Tung University
SUN-PF-048 P6-0046	**Photo-Assisted CO_2 Hydrogenation Using Plasmonic MoO_2 Nanocrystals** 陳正翰, National Changhua University of Education
SUN-PF-049 P6-0047	**Molybdenum Diselenide Doped Palladium Catalyst for Formic Acid Dehydrogenation** Po-Chun Chang, Providence University
SUN-PF-050 P6-0048	**Development and Synthesis of High-temperature Stable Ionic Liquids** Po-Hsuan HSIEH, Industrial Technology Research Institute
SUN-PF-051 P6-0049	**Application of Carbazole-based Conjugated Polymers on Light-driven Hydrogen Evolution Reaction** Yu-Chieh Yeh, National Taiwan University
SUN-PF-052 P6-0050	**Anthraquinone-Based Polymers: A Promising Electrochemical Approach for CO_2 Capture** Zheng-Yi Lin, National Sun Yat-sen University
SUN-PF-053 P6-0052	**Direct growth of continuous Carbon Nitride film by thermal vapor deposition for photocatalytic applications** Shuo-Yun Chang, National Taiwan University
SUN-PF-054 P6-0053	**Simple Strategy for Bismuth-Modified g-C3N4 in Electrocatalytic CO_2 Reduction and its Application** Shao-Wei Lu, National Taiwan University
SUN-PF-055 P6-0054	**A direct growth method to deposit catalyst on membrane for anion exchange membrane water electrolyzer** Jing Qian Ho, National Sun Yat-sen University
SUN-PF-056 P6-0056	**Single-Atom Catalysts with Sulfur Sites for Electrosynthesis of Hydrogen Peroxide** Song-Chi Chen, National Taiwan University
SUN-PF-057 P6-0057	**Enhancement of CO_2 Electroreduction by Ni SACs Embedded in Chalcogenide-Doped Carbon Nanofibers: An Electrochemical Study** Varad Modak, National Taiwan University
SUN-PF-058 P6-0058	**Novel Agricultural Waste Chitosan-Based Film Activated with Citral Oil Encapsulated in Nanoemulsion: Investigation of Multifunctional and Physicochemical Properties** Shihsyuan Lin, National Chung Hsing University

PF-綠色化學 (Green Chemistry)	
SUN-PF-059 P6-0059	**Chemical Oxidation of Small Molecules Paired with Electrochemical Hydrogen Evolution Reaction** Tzu-Ting Weng, National Taiwan University
SUN-PF-060 P6-0060	**A Conjugated Polymer Bearing a Re(I) Bipyridine Complex for CO_2 Photoreduction** Yu-Chen Yu, National Taiwan University
SUN-PF-061 P6-0061	**Enhanced Production of Hydroxyacetic Acid via Genetically Modified Bacterial Strains Incorporating Bacterial Hemoglobin** Subhankar Dhar, Ming Chi University of Technology
SUN-PF-062 P6-0062	**Optimized Photocatalytic Systems for Enhanced Nitrogen Reduction: Harnessing Defect-Engineered Gas-Solution Interfaces** 彭仕貿, Taipei Medical University
SUN-PF-063 P6-0063	**The Biomimetic Ruthenium H-Cluster Complex for Hydrogen Production via Dehydrogenation of Formic Acid and Water** Yin-Tse Chou, National Yang Ming Chiao Tung University
SUN-PF-064 P6-0065	**Synthesis and CO_2 photoreduction of polynorbornene with rhenium-complex pendants** Kuo-Feng Chung, National Taiwan University
PG-化學生物 (Chemical Biology)	
SUN-PG-001 P5-0006	**Chemo-enzymatic synthesis of clickable lipid A analog** Yen-Yu Chen, National Taiwan University
SUN-PG-002 P5-0009	**Understanding the Sequence Determinants of NRP Thioesterase Function** Fa-NengThomas Ma, National Taiwan University
SUN-PG-003 P5-0012	**Understanding The Mechanism of Non-Ribosomal Peptide Macrocyclization** Wei-Yen Liao, National Taiwan University
SUN-PG-004 P5-0029	**Yeast as Biocatalysts: A Novel Route to Aliphatic-Enhanced Humic-Like Materials** Tsung-Hung Wu, National Chung Hsing University
SUN-PG-005 P5-0041	**Computer-aided Drug Design for Piperazinyl Thiourea Derivatives as Human Enterovirus Family 3C Protease Inhibitors** Po-Yu Chan, Chang Jung Christian University
SUN-PG-006 P5-0052	**Investigation of the Active Compound OVA (ovatodiolide) from Anisomeles indica in Addressing Disease and Growth Stagnation Issues in Meretrix sp.** Hong Shen Wen, National Taitung University
SUN-PG-007 P5-0055	**Data Modeling for Behavioral Regulation of Vector Insects: Analysis of Odor Attraction and Repellency** Powei Kang, National Taitung University
SUN-PG-008 P5-0001	**Gradient conducting polymer surfaces with netrin-1-conjugation promote axon guidance and neuron transmission of human iPSC-derived retinal ganglion cells** Jia-Wei She, Academia Sinica
SUN-PG-009 P5-0003	**The Distinct Effects between left- and right-handed (6,5) on Macrophage Function and Gene Expression** CarlosJose Quiroz Reyes, Institute of Atomic And Molecular Sciences, Academia Sinica Academia Sinica
SUN-PG-010 P5-0005	**Evaluation of the Inhibitory and Degradative Effects of Fe_3O_4-Chlorophyllin Nanoparticles on Islet Amyloid Polypeptide Fibrils** Tsu-Hsuan Huang, National Taiwan Normal University
SUN-PG-011 P5-0007	**Hydrogen peroxide-responsive boronic acid-based molecular conjugation for restraining calcitonin amyloid fibril formation** Chia-Chi Chang, National Taiwan Normal University

PG-化學生物 (Chemical Biology)	
SUN-PG-012 P5-0008	**Data-independent acquisition SWATH, and integrating full scan and data-dependent acquisition (IFSDDA)-based comparative proteomic and metabolomic analysis of djulis (Chenopodium formosanum)** Yi-Feng Zheng, National Chung Hsing University
SUN-PG-013 P5-0010	**The molecular mechanism underlying small molecule compound Nudiposide-mediated astrocyte-to-neuron conversion** Yu-Tang Lee, National Tsing Hua University
SUN-PG-014 P5-0011	**Development of dual-function nucleic acid capsules for combined gene therapy and drug delivery** 魏睿宇, National Yang Ming Chiao Tung University
SUN-PG-015 P5-0013	**Comprehensive neurotoxicity of lead halide perovskite nanocrystals in nematode Caenorhabditis elegans** Ling-Wei Liang, National Taipei University of Technology
SUN-PG-016 P5-0014	**Chemical Constituents and Activities of the New Indigenous Trichoderma Strain T. orarium 18F0041 from Taiwan.** Hui-Tzu Ni, Fu Jen catholic university
SUN-PG-017 P5-0015	**Analysis of optimization strategies for human calcitonin double variants** Pei-Chun Pan, National Taiwan Normal University
SUN-PG-018 P5-0016	**Regioselective Modification of Antibodies through Metal-AffinityGuided Molecule Probes.** Chi Tai Chen, National Tsing Hua University
SUN-PG-019 P5-0017	**Computational Design of Self-assembling Catalytic Peptides as Artificial Hydrolases and Peroxidases** Ying-Ke Cheng, National Tsing Hua University
SUN-PG-020 P5-0018	**Using Disulfide-linked Peptides to Capture CMP Monomers by Forming Collagen Heterotrimers** Yu-Ying Chan, National Tsing Hua University
SUN-PG-021 P5-0019	**Impact of Frame Shifts and Cation-π Interactions on the Folding and Stability of Collagen Mimetic Peptides** Bo-Ren Yang, National Tsing Hua University
SUN-PG-022 P5-0020	**Title: One-Step purification and immobilization of Phosphotriesterase using immobilized metal-ion affinity chromatography materials technique** Hong Lin Huang, National Chiayi University
SUN-PG-023 P5-0021	**Preparation and biological evaluation of novel benzimidazole and benzotriazole derivatives** Yu-En Su, National Tainan Junior College of Nursing
SUN-PG-024 P5-0022	**Exoelectritical pathogen Streptococcus mutans capable of gold ions reduction to form gold nanoparticles for oral photothermal sterilization** Jia Sin Chen, Kaohsiung Medical University
SUN-PG-025 P5-0023	**To explore the proteomic changes for young plasma transfusion in the recovery of Traumatic brain injury mice** Wen Chen Chen, Chang Gung University
SUN-PG-026 P5-0024	**Identification of critical amino acid residues for binding divalent metal ions in Bacillus licheniformis gamma-glutamyltranspeptidase** Pei-Feng Lin, National Chiayi University
SUN-PG-027 P5-0025	**Investigation of the Tolerance of alpha(2,8)-Sialyltransferase to Modified Sialyl Acids and Its Application on Enzymatic Synthesis of Gangliosides** Yi-hua Lee, National Tsing Hua University

PG-化學生物 (Chemical Biology)	
SUN-PG-028 P5-0026	**Chemoenzymatic Method toward the Synthesis of N-Glycan Pentasaccharide** Ni-Ying Ho, National Tsing Hua University
SUN-PG-029 P5-0027	**Developing Small Molecules as α-L-Iduronidase (IDUA) Protein Stabilizers Toward Mucopolysaccharidosis type I (MPS-I) Disease** Ting-Ya Yang, Academia Sinica
SUN-PG-030 P5-0028	**Synthesis of Natural-product-inspired molecules targeting bacterial Lipid II to block peptidoglycan biosynthesis** Chia-En Chen, Academia Sinica
SUN-PG-031 P5-0030	**Delivering therapeutic peptide drug with mesoporous silica nanoparticle against Huntington's disease** Yi-Yun Ho, National Central University
SUN-PG-032 P5-0031	**Synthesis of Multifunctional Drug Carriers via Ring Opening Polymerization and Supramolecular Coordination Chemistry** Kuan-Heng Cheng, National Taiwan University
SUN-PG-033 P5-0032	**Mass Spectrometric Analysis of Neurotransmitter Changes Induced by Dopamine in PC12 cells.** 王殿鈞, Tunghai Unviersity
SUN-PG-034 P5-0033	**Development of a Fluorescent Polymyxin E-Based Probe to Establish a Fluorescence Polarization (FP) Platform for Lipid A** Po-Yi Hsu, Academia sinica
SUN-PG-035 P5-0034	**ACE2-expressing Membrane-camouflaged Copper Nanoparticle For Decoying and Killing SARS-CoV-2** Pooja Aich, Kaohsiung Medical University
SUN-PG-036 P5-0035	**How Does a Newly Identified ESCRT-III Protein, PspA, Bind and Remodel the Membranes?** Samuel Herianto, Academia Sinica and National Taiwan University
SUN-PG-037 P5-0036	**The Application of Nuclease Induced-stepwise Photodropping (NISP) to Investigate the Degradation Behavior of DNA Polymerase γ** Shih-Wei Wang, National Sun Yat-sen University
SUN-PG-038 P5-0037	**Preparation of Cholesterol-Peptide Derivative Extended Compounds with Enhanced Hydrophobicity to Facilitate their Penetration Across the Blood-Brain Barrier** Yu-Yu Chang, 鄭建中實驗室
SUN-PG-039 P5-0038	**Research on the preparation of controlled release anti-mosquito microcapsules** 楊國明, Cheng Shiu University
SUN-PG-040 P5-0039	**Targeting junction sites in different DNA by bis-intercalators induces topological changes with potent antitumor effects** Shih-Chun Huang, National Chung Hsing University
SUN-PG-041 P5-0040	**Unveiling the Structural-Activity Relationship of Self-Assembling Peptide Hydrolases by Molecular Dynamics Simulations** Yen-Chen Pan, National Tsing Hua University
SUN-PG-042 P5-0042	**Optimization of Whole-Cell Biosensors based on Logic Gate to Detect Copper ion in Cupriavidus metallidurans** Chia-Ching Yuan, National Taiwan Normal University
SUN-PG-043 P5-0043	**Bioengineered the Metabolic Pathway and Improved Selectivity of Tyramine Detection by Biosensor** Xiao-Jie Liu, National Taiwan Normal University
SUN-PG-044 P5-0044	**Investigating a series of Rifampicin-MccJ25 conjugates for potential synergism in RNA polymerase inhibition** Hsi Wen Kao, National Taiwan University

PG-化學生物 (Chemical Biology)	
SUN-PG-045 P5-0045	**Modulating stable protonation states and cis/trans isomerism in methylated tripeptides using dft-deep learning approach** Hieu Cao Dong, National Taiwan University
SUN-PG-046 P5-0046	**Structurally modified sterol analogue influences the metabolic labeling of steryl glucosides in Helicobacter pylori and Cryptococcus neoformans** Chung-Wei Fu, Academia Sinica
SUN-PG-047 P5-0047	**Preparation of Cholesterol-Peptide Conjugates by Linking Amyloid-β Peptides with Cholesterol for the Development of Alzheimer's Disease Therapeutics** Shi-Peng Zhang, 鄭建中實驗室
SUN-PG-048 P5-0048	**Probing and Verification of Glycosylation Catalytic Mechanisms of Natural Alkaloid Glycosyltransferase by Substrate Analogs and AI-Directed Molecular Simulations** Jing-Rong Lai, National Cheng Kung University
SUN-PG-049 P5-0049	**BT&D2 Medical and Pharmaceutical R&D System Integrates and Utilizes Artificial Intelligence and Big Data to Efficiently Predict Drugs-Diseases Relationship for Precision Medicine** Shu-Han Xu, National Cheng Kung University
SUN-PG-050 P5-0050	**Plasma Metabolomic Profiling Analysis in Taiwan Biobank : Relationship between Metabolites and Health Factors** BaiChuan Wang, National Chung Cheng University
SUN-PG-051 P5-0051	**Towards Peptidyl Liposome That Can Fuse with Cell Membranes** Ting-Chih Chang, Academia Sinica
SUN-PG-052 P5-0053	**NMR-based metabolic profiling of atypical teratoid/rhabdoid tumor (ATRT) medium extracts under different doses of COH29 with the addition of radiation therapy** Pei Lian Li, National Chung Cheng University
SUN-PG-053 P5-0054	**Thermo-responsive injectable hydrogel with high tissue adhesion combining photothermal therapy for colorectal cancer treatment** Tian Zhen Lee, Taipei Medical University
SUN-PG-054 P5-0057	**Development of novel selective FPR1 antagonist against neutrophil-mediated inflammatory disease** Shih-Chieh Yen, Development Center for Biotechnology
SUN-PG-055 P5-0058	**Silanized acrylic graphene oxide nanocomposite reinforced mechanically tunable GelMA/HAMA printable bio-ink for adipose-derived stem cells differentiated mature smooth muscle cells** Pavanchandh Atturu, Kaohsiung Medical University
SUN-PG-056 P5-0059	**Development of a Synergistic Therapy Based on Nuclear Translocation upon Photosensitisation to Improve Anticancer Efficiency of Doxorubicin** Dat Thanh Dinh, National Chung Hsing University
SUN-PG-057 P5-0060	**Comprehensive Molecular Theranostics of Benzothiazole Derivatives in Oncological Research** 劉家豪, National Chung Hsing University
PH-光電材料 (Photoelectronic Materials)	
SUN-PH-001 P7-0001	**Judicious Molecular Design of 5H-Dithieno[3,2-b:2′,3′-d]pyran-based Hole-Transporting Materials for Highly Efficient and Stable Perovskite Solar Cells** Chia-Hui Lin, Soochow University
SUN-PH-002 P7-0002	**((4h-cyclopenta)2,1-b:3,4-b')dithiophene-4-one) as Self-assembled Monolayer for Inverted-type Perovskite Solar Cells** Wen-Tzu Chen, Soochow University

PH-光電材料 (Photoelectronic Materials)	
SUN-PH-003 P7-0003	**Research on the application of self-assembled molecules with Donor -π-acceptor carbazole structure in indoor perovskite solar cells** chang hsun Tasi, Soochow Unversity
SUN-PH-004 P7-0008	**Study on Novel Carbazole-Based Self-Assembled Monolayer for Inverted Perovskite Solar Cells** 林冠廷, Soochow University
SUN-PH-005 P7-0009	**Enhanced Performance of Photocatalytic CO_2 Reduction Using Cu@Graphene Nanoparticle-decorated Co_3O_4 Nanoneedles** Yi–Xuan Lin, University of Taipei
SUN-PH-006 P7-0013	**Research on Benzanthrone Quinone Derivatives as Hole Transport Materials for Perovskite Solar Cells** Chia Yang Kao, Soochow University
SUN-PH-007 P7-0017	**Structure–Packing–Charge Carrier Mobility in Pure Hydrocarbon Host Materials for OLEDs** Yi Feng Wang, National Tsing Hua University
SUN-PH-008 P7-0018	**Effect of substituent patterns on charge transport properties of OLED host materials** Yu Cheng Tseng, National Tsing Hua University
SUN-PH-009 P7-0022	**Searching for Small Non-Fullerene Acceptors by Computational High-throughput Screening** Josh Hu, National Tsing Hua University
SUN-PH-010 P7-0023	**Application of novel spiro-type hole transport layer materials in perovskite solar cells** Yu-Wei Chin, Soo-chow university
SUN-PH-011 P7-0026	**π-conjugated Organic Dye Containing Long Alkoxyl Chains for Dye-Sensitized Solar Cells** Cheng-Yang Tsai, Academia Sinica
SUN-PH-012 P7-0027	**Metal-Free Phthalocyanine-Based Additives for Stabilizing and Enhancing the Performance of Perovskite Solar Cells** Chuan Hung Huang, Tamkang University
SUN-PH-013 P7-0028	**Alkyl Chain Length Effect on the Polymorphism of Stimuli-Responsive Ethynylanthracene Derivatives** Wen-Yu Chung, Academia Sinica
SUN-PH-014 P7-0030	**Design and Synthesis of Novel AIEgens Based on Imidazole-Pyridine Conjugates** Wei-Ting Chien, Chung Yuan Christian University
SUN-PH-015 P7-0039	**Small-molecule Passivators and Spacers Based on Carbazole and Acridine Entities for the Application of Perovskite Solar Cells** 張翔, Providence University
SUN-PH-016 P7-0040	**Mono-substituted Naphthalene-fused Polyaromatic Hydrocarbons for DSSC Applications** Hotzu Ling, Providence University
SUN-PH-017 P7-0048	**Push-pull Type Naphthalene-fused Polyaromatic Hydrocarbons for DSSC Applications: Influence of Amine Substituents** Yuetong Lin, Providence University
SUN-PH-018 P7-0052	**Ultra-High Response and Flexible Green Graphene Photodetectors Integrated with Lead-Free Perovskite Quantum Dots** Heng-Yi Lin, Chung Yuan Christian University
SUN-PH-019 P7-0058	**Ultra-Nanocrystalline Diamonds Synthesized by Filament Chemical Vapor Deposition at a High CH_4/H_2 Ratio** Pang-Cheng Liu, Chung Yuan Christian University

PH-光電材料 (Photoelectronic Materials)	
SUN-PH-020 P7-0063	**Effective Photocatalytic CO_2 Reduction Using PEDOT-Functionalized Cu@Graphene Nanowires** Zi-Yu Chen, University of Taipei
SUN-PH-021 P7-0065	**Synthesis of Cu@Graphene Core-Shell Nanoparticles for Photocatalytic CO_2 Reduction** Xie Ding Han, University of Taipei
SUN-PH-022 P7-0004	**Creating Radical-Mediated Fluorescent Defects in Carbon Nanotubes** Ngoc Khanh Tran, Institute of Atomic and Molecular Sciences Sinica Academia
SUN-PH-023 P7-0005	**Preparation of Gallium-Doped Cuprous Oxide Semiconductor Films via Sputtering for Photoelectrochemical Applications** Juan Xuan Li, National Taiwan Ocean University
SUN-PH-024 P7-0006	**Bimetallic Modification of Graphitic-Phase Carbon Nitride for Enhanced Photoelectrocatalytic Reactions** 黃怡晴, Tunghai Unviersity
SUN-PH-025 P7-0007	**Iridium modified few-layer graphite carbon nitride for electrocatalysis oxygen evolution reaction** Yun Ting Tseng, Tunghai Unviersity
SUN-PH-026 P7-0010	**Hybrid-Protected Perovskite Quantum Dot Films with Ultra-High Efficiency and Stability for LED Backlighting** Loan Ngo, National Taiwan University
SUN-PH-027 P7-0011	**Simulation and Analysis of Solar Cells Based on $Sb_2(S, Se)_3$ Absorption Layer: Analysis of Different Oxides as HTL** 溫建智, National Changhua University of Education
SUN-PH-028 P7-0012	**Exploring the Effect of Substituents in Imidazole-based Derivatives on Anion Sensing Performance** Wei Hsing, Chung Yuan Christian University
SUN-PH-029 P7-0014	**Enhanced Luminescence and Color Tuning in $BaY_2ZnO_5:Eu^{3+}$ Phosphors via Graphene Oxide Doping** Hsiang-Ju Shih, National Pingtung University
SUN-PH-030 P7-0015	**Enhancing the Photocatalytic Performance of Graphitic Carbon Nitride (g-C_3N_4) via the Integration of Transition Metal Oxides** Wen-Ling Chen, National Central University
SUN-PH-031 P7-0016	**Synthesis, characterization and photophysical properties of quinoxaline-based organic solid-state luminescent materials** Hao-Zhe Jiang, Academia Sinica
SUN-PH-032 P7-0019	**High-efficiency Perovskite Quantum Dots for Micro-LED Applications** Yen-Huei Lin, National Taiwan University
SUN-PH-033 P7-0020	**Elucidating the Epitaxial Growth Mechanisms of Solution-Derived $BiVO_4$ Thin Films Utilizing Rapid Thermal Annealing** Guan-Zhu Tu, National Taiwan University
SUN-PH-034 P7-0021	**Study on the Physical and Chemical Properties of Fluorine-Substituted Imidazole Compounds** Chia-Hung Chu, Chung Yuan Christian University
SUN-PH-035 P7-0024	**Synthesis and photophysical study of luminescence materials with dibenzothiophene sulfone and benzophenone cores** Yu-Chun Liao, Academia Sinica
SUN-PH-036 P7-0025	**Investigation of the Decomposition Behavior of $Cs_2AgBiBr_6$ Lead-Free Double Perovskite** Yu-Chen Hung, National Taiwan University

PH-光電材料 (Photoelectronic Materials)	
SUN-PH-037 P7-0029	**Spinel-type structured phosphor near-infrared-II emission: intervalence charge transfer and hetero-valent chromium pairs** Kuan-Chun Chen, National Taiwan University
SUN-PH-038 P7-0031	**Comparative study of film formation conditions through variation in Niox solution concentration and wet processing parameters** Xing_Yu Zeng, National Changhua University of Education
SUN-PH-039 P7-0032	**Anomalous Absorption Properties of Symmetrical Carbazole-Triazine Derivatives** Fang-Rong Lu, Academia Sinica
SUN-PH-040 P7-0033	**Efficiency Enhancement of Sb_2Se_3 Solar Cells Using SCAPS-1D: Boron-Doped ZnO as an Optimized HTL Material** Cen-CI Lin, National Changhua University of Education
SUN-PH-041 P7-0034	**Anion Effect on the CuII–Neocuproine Mediator and Its Electrocatalysts for Dye-Sensitized Solar Cells: Polymeric Chalcogenides of PEDOT–PEDTT** Xin-Bei Lin, National Taiwan Normal University
SUN-PH-042 P7-0035	**Quantum Sensing of Semiconductor Devices using Fluorescent Nanodiamonds with All-Optical Methods** Yi-Mu Tsui, Academia Sinica
SUN-PH-043 P7-0036	**Innovative Approaches to Integrating Lead Halide Perovskite Quantum Dots into High-Performance Luminescent Materials for Broad Applications** Andi Magattang Gafur Muchlis, NaNational Taipei University of Technology
SUN-PH-044 P7-0038	**Mechanistic Insights into CO_2 Electroreduction to $C2^+$ Products on $Cu_2O(111)$: A DFT Study** Tzu Hsun Chu, National Taiwan University of Science and Technology
SUN-PH-045 P7-0041	**Enhanced Optical Performance and Stability Through Manipulation of the Ligand Chain in $CsPbBr_3$ Quantum Dots** Yu Chi Hwa, Feng Chia University
SUN-PH-046 P7-0042	**Introduce multi-functional groups with spiro–based structure as passivators in perovskite solar cells** Jun-kai Peng, TunghaiUniversity
SUN-PH-047 P7-0043	**Thermal stability of linkage FAPbBr3 nanocrystal with three steps of post-processing** Yan-Chung Lai, National Taipei University of Technology
SUN-PH-048 P7-0044	**Facile Synthesis of Z-scheme WS_2/V_2O_5 Composite as An Efficient Heterojunction Photocatalyst for High Efficient Photocatalytic Under Visible Light Irradiation** Linjer Chen, National Kaohsiung University of Science and Technology
SUN-PH-049 P7-0045	**Low-carbon synthesis and post-processing of polymer-coated $FAPbBr_3$ perovskite quantum dots to improve stability** Yuan-Hong Chen, National Taipei University of Technology
SUN-PH-050 P7-0046	**Realizing over 41.77 % Indoor Efficiency in Wide-Bandgap Perovskite Solar Cells with 3C alkyl linker-based Carbazole-derived SAM Layer** Premkumar Gnanasekaran, Tunghai University
SUN-PH-051 P7-0047	**Boosting CO_2 Reduction with PCN-222/Graphene Oxide/$FAPbBr_3$ Dual Z-scheme Heterojunction Photocatalysts** Cheng-Hsun Chien, NaNational Taipei University of Technology
SUN-PH-052 P7-0050	**Enhancing Performance in Semi-Transparent Ternary Organic Solar Cells by Mitigating Light Loss Using Ultra-Thin Metal Electrodes** Zi -Ruei Huang, Ming Chi University of Technology

PH-光電材料 (Photoelectronic Materials)	
SUN-PH-053 P7-0053	**Truxene-Core Interfacial Materials for Undoped NiOX-Based Inverted Perovskite Solar Cells** Cheng-Chieh Lu, Ming Chi University of Technology
SUN-PH-054 P7-0054	**Research on the application of organic molecule-modified hole transport layers as interface passivation materials for perovskite solar cells** Ho Jian Lin, Ming Chi University of Technology
SUN-PH-055 P7-0055	**Developing high-performance organic solar cells through optimization of non-halogenated solvents** Yu-Hung Wang, Ming Chi University of Technology
SUN-PH-056 P7-0057	**Demonstration of Small Perturbation Techniques via n-type $BiVO_4$ photoanode OER process** Jun Lin Fong, National Taiwan University
SUN-PH-057 P7-0059	**Enhancing Photoluminescence and Stability of ZnO-Modified Perovskite Quantum Dot Glass by Metal Oxide Doping** Cheng-xuan Wu, NaNational Taipei University of Technology
SUN-PH-058 P7-0060	**Enhancing the Performance of Ternary Organic Solar Cells Using Novel Dicyclopentadithienothiophene-Based Non-Fullerene Acceptors** Chien Hung Yang, Ming Chi University of Technology
SUN-PH-059 P7-0061	**Application and Performance Optimization of Organic Materials in the Electron Transport Layer Interface Engineering of Hybrid Perovskite Solar Cells** Hung Teng, Ming Chi University of Technology
SUN-PH-060 P7-0062	**Polymorphic Acrylamide-Based Molecules: Fluorochromism is Triggered by Photons in the Solid State** Chin-Han Lee, Academia Sinica
SUN-PH-061 P7-0064	**Photodetector Study of Two-Dimensional Halide Perovskite with Fluorinated Short-Chained Phenylethylammonium Spacer** FangYue Siao, National Taipei University of Technology
SUN-PH-062 P7-0066	**Real-time Probing of the EGFR Signaling on the Surface of Single Living Cells using Multifunctional Photoelectric Integrated Microscope System** Yu-Ren Chiou, Taipei Medical University
SUN-PH-063 P7-0067	**Research and Comparison of Perovskites Based on Fluorinated Ethanolamine Halide Salts and Propanolamine Halide Salts** 陳羿德, National Taipei University of Technology
SUN-PH-064 P7-0068	**Photodetection Performance of Fluorinated RP Perovskites: A Comparative Study** Yun-Ting HSIEH, NaNational Taipei University of Technology, Taipei Tech
SUN-PH-065 P7-0069	**Synthesis, Photophysical and Electrochemical Properties of 11H-benzo[4,5]thieno[3,2-b]benzo[4,5]thieno[2,3-d]pyrrole Derivatives with D-π-D Type Structural Configuration** 許之榕, Chung Yuan Christian University
SUN-PH-066 P7-0051	**Enhancing Transistor Memory Photoresponse Using Perovskite Nanocrystals And Polyamic Acid In Floating-Gate Layers** Cao You-Wei, Ming Chi University of Technology
PI-奈米孔洞材料 (Nanoporous Materials)	
SUN-PI-001 P8-0005	**One-Pot Synthesis of Water-Stable Cesium Lead Halide Perovskite Nanocrystals Confined within Micro-Mesoporous Silica** Ruei-Bin Wang, National Cheng Kung University
SUN-PI-002 P8-0006	**Preparation and application of Au/ZIF-8 material for low concentration hydrogen gas sensing** Hui-Min Chang, Providence University

PI-奈米孔洞材料 (Nanoporous Materials)	
SUN-PI-003 P8-0011	**Assembly of three 2D or 3D Metal-Organic Frameworks Based on A Flexible Tripodal Thioether-based Pyridyl Ligand and Croconate ($C_5O_5^{2-}$): Structural Characterization and Thermal Stability** Hsin-Fang Chang, Soochow University
SUN-PI-004 P8-0018	**(Cu-S)n MOF-Polyaniline-based Electrochemical biosensor to detect ESAT-6** Zhi-Rou Liang, Fu Jen Catholic University
SUN-PI-005 P8-0019	**Development of Diversified ZIF Materials for Trace Moisture Sensors and VOC Gas Electronic Noses in Livestock Applications** Yu-Cheng Shih, Providence University
SUN-PI-006 P8-0041	**Electronic Structure Engineering of Nickel Single Atom Catalyst with Phosphorus to Boost Electrochemical CO_2 Reduction in a Proton-Rich Environment** MengstuEtay Ashebir, Institute of Atomic and Molecular Sciences, Academia Sinica
SUN-PI-007 P8-0042	**Efficient Photocatalytic CO_2 Reduction using MoS_2 Capped Au Nanoparticles** 徐國泰, University of Taipei
SUN-PI-008 P8-0001	**Advanced Magnetoelectric Metal-Organic Frameworks for Targeted Glioblastoma Therapy via Ferroptosis Induction and Immune Activation** Hui-Wen Lien, National Tsing Hua University
SUN-PI-009 P8-0002	**Preparation of Nickel-Cobalt Metal-Organic Framework by Solvothermal Method as Electrode Materials for Sandwich Type Micro-supercapacitors** Wei-Chun Chen, National Yunlin University of Science and Technology
SUN-PI-010 P8-0003	**Solvothermal Synthesis of Copper-Cobalt Metal Organic Framework as Electrode Materials for Interdigital Micro-supercapacitors.** Qing-Rong Yang, National Yunlin University of Science and Technology
SUN-PI-011 P8-0004	**Luminescent lanthanide-containing alginate/SiO_2 nanocomposite hydrogels for sensing applications** Yu Yun Hsu, National Taiwan University
SUN-PI-012 P8-0007	**In situ clustering of copper nanoparticles in a mesoporous cerium-based metal–organic framework toward electrochemical nitrate reduction to ammonia** Cheng-Hui Shen, National Cheng Kung University
SUN-PI-013 P8-0008	**Machine Learning-Driven Exploration of Metal-organic Frameworks with Fast Water Diffusion** I-Ting Sung, National Taiwan University
SUN-PI-014 P8-0009	**Anionic Metal–Organic Framework for Modulating the Selectivity of Electrochemical Nitrate Reduction to Ammonia** Yun Shan Tsai, National Cheng Kung University
SUN-PI-015 P8-0010	**Amino-functionalized Covalent Quinazoline Networks for CO_2 Separations** Ting-Yuan Tung, National Cheng Kung University
SUN-PI-016 P8-0012	**Effect of Pore Structures of Multiporous Carbons on the Performance of Supercapacitors** Zheng wei He, National Cheng Kung University
SUN-PI-017 P8-0013	**Synthesis of Mesoporous Silica SBA-15 for Application in New Bistability Smart Windows** Hui-Chi Wu, National Cheng Kung University
SUN-PI-018 P8-0014	**Shaping of Porous Molecular Crystal for CO_2 Capture by Pressure Swing Adsorption** Shang-Yu Kuo, National Cheng Kung University
SUN-PI-019 P8-0015	**Studying Early Stages of Silica Polymerization in the Context of Zeolite Synthesis Using Molecular Dynamics** Yun-Chen Hsu, National Central University

PI-奈米孔洞材料 (Nanoporous Materials)	
SUN-PI-020 P8-0016	**Raltitrexed-conjugated Quercetin@MOF as Selective and pH-sensitive Nanomedicine for Synergistic Anticancer Therapy** 郭家瑜, National Cheng Kung University
SUN-PI-021 P8-0017	**Lanthanide-modified two-dimensional zirconium-based metal–organic framework for photoluminescence detection of D_2O** Tzu-Chi Lin, National Cheng Kung University
SUN-PI-022 P8-0020	**Thermal Contact-Induced Porous Structures for Enhanced Adsorption Efficiency in Metal-Organic Framework Films** Wei Qi Ting, National Taiwan Normal University
SUN-PI-023 P8-0021	**Contribution of confined structure on fast and selective ionic transport by SBA-15** Pin Sian Lee, National Cheng Kung University
SUN-PI-024 P8-0022	**Green-Chemistry Method to Synthesize Phase-Tunable Porous Zirconia with High Surface Area** Yu-Chun Lin, National Cheng Kung University
SUN-PI-025 P8-0023	**Synthesis of Hydrophobic Mesoporous Silica Materials for Removal Dye in Recycled BHET** Yi-Ching Huang, National Cheng Kung University
SUN-PI-026 P8-0024	**Tuning the Pore Structures and Functional Applications by Mixed-Ligand Metal-Organic Cages** Jiale Chen, National Taiwan Normal University
SUN-PI-027 P8-0025	**Superhydrophobic Modification of Aluminum Metal-Organic Frameworks and Separation Application of Water-in-Oil Emulsions** Souvik Pal, National Tsing Hua University
SUN-PI-028 P8-0026	**Perhydroxylated benzoquinoid covalent triazine framework for sustainable electrochemical sodium-ion storage** Chen-Yu Hung, National Cheng Kung University
SUN-PI-029 P8-0027	**Membrane-Integrated Liposome capable specific Tumor-Homing to Encapsulate Au@SiO_2 drug delivery Nano system for Enhanced Photothermal and Chemo combination therapy in Skin Metastatic Breast Cancer** Fang-Yi Hsu, Kaohsiung Medical University
SUN-PI-030 P8-0028	**Two-Dimensional Materials Constructed via Heteroleptic Terpyridine Complexation** Chun-Ping Hsieh, National Taiwan University
SUN-PI-031 P8-0029	**Cutting-edge Redox-responsive Mesoporous Organo-silica Nanoparticles for PROTAC-driven Mutant Huntingtin Degradation** Ozi Adi Saputra, Academia Sinica
SUN-PI-032 P8-0030	**Plasmon-Assisted Bimetallic Metal Deposition on a Mesoporous Silica** Idhea Islami, National Changhua University of Education
SUN-PI-033 P8-0031	**Metal Nanocatalysts for H_2O_2 Production from Formic Acid and Molecular Oxygen: Effects of Particle Size and Support** Yu-Fen Hsia, National Changhua University of Education
SUN-PI-034 P8-0032	**Bottom-up Synthesis of Two-dimensional Aluminum-Based Metal Organic Framework Nanosheets for Enhanced CO_2 /N_2 separation** Yu-Shun Wang, National Taiwan Normal University
SUN-PI-035 P8-0033	**The Research on Early Secreted Antigen Targeting 6 kDa Detection Using Polyaniline-Doped CuS-MOF Modified Paper-Based Microfluidic Device** Pei-Hsuan Chiang, Fu Jen Catholic University

PI-奈米孔洞材料 (Nanoporous Materials)	
SUN-PI-036 P8-0034	**Electrospun Polybenzoxazine/Polyacrylonitrile/ Zinc Chloride Composite Materials In Carbon Electrode Materials** Kai-Shiang Hung, National Chin-Yi University of Technology
SUN-PI-037 P8-0035	**Using Metal-Organic Frameworks as Catalysts for Epoxide/CO_2 Copolymerization** En-Hsu Wu, National Tsing Hua university
SUN-PI-038 P8-0036	**Temperature-Dependent Behavior of NIPAM-Based Hydrogel Analyzed by SAXS** Chia-Fu Chang, National Taiwan University
SUN-PI-039 P8-0038	**De Novo Synthesis Agrochemicals in Metal–Organic Frameworks for Agriculture** Yuan-Cheng Chan, National Taiwan Normal University
SUN-PI-040 P8-0039	**ZrT-2 synthesis optimization for VOC adsorption applications** 林子筠, Kaohsiung Medical University
SUN-PI-041 P8-0040	**The formation mechanism and properties of supported WO3-x Nanoclusters** Jui-Huang Huang, National Changhua University of Education
SUN-PI-042 P8-0043	**Enhanced CO_2 Electroreduction Using Axial Oxygen-Coordinated NiN4 Single-Atom Catalysts** Osama Nasr, National Yang Ming Chiao Tung University
PJ-化學教育 (Chemistry Education)	
SUN-PJ-001 P9-0001	**Enhancing chemical education with a homemade LED photometer: methodology and applications** Yu-Hsin Hsu, Chung Shan Medical University