POSTER AWARD LIST March 8

PA-分析化學 (Analytical Chemistry)	
SAT-PA-004 P3-0016	**Machine Learning-Guided Discovery and Prediction of Carbon Nanotube-Based Near-Infrared Nanosensors for Prohibited Drugs** Ming-Syue Lin, Institute of Atomic and Molecular Sciences, Academia Sinica
SAT-PA-015 P3-0071	**Fiber-Optic Localized Surface Plasmon Resonance Sensor for Peanut Allergen Ara h 2 Detection** Hsing-Yu Chiang, National Yunlin University of Science and Technology
SAT-PA-028 P3-0004	**Swelling Microneedle-Assisted Paper-Based SERS Platform for Detection in Living Organisms** Chia-Ling Kuo, National Tsing Hua University
SAT-PA-029 P3-0005	**PEDOT-based Electrochemical Determination of ESAT-6 in Human Plasma for the detection of Tuberculosis** Xiu-An Ye, Fu Jen Catholic University
SAT-PA-047 P3-0034	**A Novel Approach for Tumor Boundary Detection Using Infrared Spectroscopy and Machine Learning** jun lun zhang, National Tsing Hua University
SAT-PA-059 P3-0051	**Determination of Urinary Organic Acid for Rare Inherited Metabolic Disease Patient Using Solid Phase Extraction and Gas Chromatography-Mass Spectrometry** Yung-Cheng Jair, National Taiwan University College of Medicine
SAT-PA-072 P3-0067	**Liquid Chromatography-coupled Online Microdroplet Mass Spectrometry (LC-MMS) for Bottom-up Characterization Using Intact Protein as the Input** Chih-Hung Wang, National Cheng Kung University
SAT-PA-081 P3-0079	**4D-Printed Reversible Redox-Responsive Needle Enabling Online Monitoring of Living Rat Brain Extracellular Lactate and Glucose** Hsiao Chu Chiu, National Chung Hsing University
SAT-PA-093 P3-0095	**Functionalization of Gold Nanoparticles with Proteins through Alkynylated Ligands** Xu Shun Qiang, National Tsing Hua University
SAT-PA-108 P3-0114	**Development of Low Toxicity and Non-conventional Antifungal Agents** Po-Hung Cheng, National Yang Ming Chiao Tung University
PB-有機化學 (Organic Chemistry)	
SAT-PB-010 P4-0073	**2-Oxo-4-Phenyl-2,5-Dihydrofuran-3-Carbonitrile-based Deep-Red Fluorescent Molecules Featuring AIE Characteristics** Shih-Fan Liu, Tamkang University
SAT-PB-011 P4-0075	**Rh(III)-Catalyzed C-H Annulation of Benzimidazole-5-Carboxylic Acid with Iodonium Ylide** Yu-Sheng Cheng, National Yang Ming Chiao Tung University
SAT-PB-037 P4-0013	**Large Positive Alkyl Chain Length Effect on Polymorphic Transition of Molecular Crystals Involving Supramolecular Gear Rotation** Hsu-Chi Chang, National Taiwan University
SAT-PB-039 P4-0019	**Ts-Containing Electron-Deficient Olefin Precursors: Approach for Catalytic Wittig Reactions and Michael Additions** Pei-Shan Wu, National Taiwan Normal University

PB-有機化學 (Organic Chemistry)	
SAT-PB-065 P4-0048	**C (sp3) – C(sp3)/ C (sp3) – C(sp2) Dicarbofunctionalization of Alkene via Nickel/ Bromide Relay Catalysis: Synthesis of Azetidine with a C3 All-Carbon Quaternary Center** HuaYi Lee, National Sun Yat-sen University
SAT-PB-066 P4-0049	**Base-Catalyzed Synthesis of Cyclopentadiene- and Pyran-Fused Pyrroloquinolinones via Sequential Knoevenagel/IMHDA/Ring Contraction or Direct Knoevenagel/IMHDA Reactions** RaghunathMaruti Walunj, National Taiwan Normal University
SAT-PB-081 P4-0067	**Palladium-Catalyzed Olefin Functionalization and 4+2 Cycloaddition of (Z)-γ, δ-Unsaturated Carboxylic Acids Via Heck Reaction** Yong-Yu Zheng, National University of Kaohsiung
SAT-PB-082 P4-0068	**Developing a Green Protocol for Metal-Free and Ligand-Free Synthesis Pathway of 1,3-Dienes and Tertiary/Secondary Ethers** Yuan-Lun Chung, National University of Kaohsiung
SAT-PB-107 P4-0116	**Two Distinct Gold-Catalyzed Oxidative Annulations of 1,5-Allenynes with Nitrones to Yield 1-Naphthol Derivatives Bearing 2,3- versus 3,4-Fused Nitroxy Rings** Debashis Barik, National Tsing Hua University
SAT-PB-109 P4-0118	**An Intramolecular Reaction between Pyrroles and Alkynes leads to a Pyrrole Dearomatization under Cooperative Actions of Gold Catalyst and Isoxazole Cocatalysts** Satish Bhausaheb Dawange, National Tsing Hua University
PC-物理化學 (Physical Chemistry)	
SAT-PC-016 P2-0070	**Efficient Variational Quantum Eigensolver Ansatz by Configurational State Preparation for Molecular Systems** Hung Shuo Chen, National Taiwan University
SAT-PC-018 P2-0078	**Discovery of Thermally Activated Delayed Fluorescence Molecules via Generative Neural Network** Zhi Lin, National Taiwan University
SAT-PC-035 P2-0003	**Crystallization behavior of sodium bromate under focused laser irradiation** Chia-Chi Chang, National Yang Ming Chiao Tung University
SAT-PC-051 P2-0021	**Enhanced Catalytic Cycle of Glucose Oxidation and Reactive Species with ROS and RHS Generation Mediated by Galvanic Engineering of Dual Atomic Sites on Covalent Organic Frameworks Synergistic Bimetal Tumor Treatment** Wen Ling Lin, National Cheng Kung University
SAT-PC-071 P2-0053	**A Computational Study on Photocatalytic Decarboxylative [2+4]/[2+2] Cycloaddition of Coumarin and Olefin** Ting Yi Chuang, National Tsing Hua University
SAT-PC-078 P2-0061	**Designing Double-Channel Architectures: A CT and π–π Interaction Approach** Wei-Yuan Lo, National Taiwan University
SAT-PC-080 P2-0063	**Creating Artificial Active Sites On The Complex Spherical Phase Through Blending The Aliphatic/Aromatic Wedge-shaped Motifs** Yong-Rui Wang, National Taiwan University
SAT-PC-082 P2-0065	**Topochemical photoisomerization in densely packed hydrazone derivatives** Po-Wen Chen, Academia Sinica
SAT-PC-115 P2-0109	**EUV Sensing and Imaging with Fluorescent Diamonds for Semiconductor Photolithography** Pei-Jie Wu, Academia Sinica
SAT-PC-122 P2-0119	**Accelerated Conformational Search of N-Acetylated Hexosamines using Neural Network Potentials** Kenee Kaiser Suyo Custodio, Academia Sinica

POSTER AWARD LIST March 9

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-033 P1-0162	**Investigation of Hydrogen / Oxygen Evolution Reaction on Iron Doped Cobalt Phosphide** Min-Si Lee, National Taiwan Normal 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-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-068 P1-0039	**Photochemical C(sp3)-H Bond Hydroxylation with Mononuclear Fe(TAML) Complexes** Kuan-Yu Lu, National Tsing Hua 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-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-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-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
PF-綠色化學 (Green Chemistry)	
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-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-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-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-056	**Single-Atom Catalysts with Sulfur Sites for Electrosynthesis of Hydrogen Peroxide**

P6-0056	Song-Chi Chen, 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
PG-化學生物 (Chemical Biology)	
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-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
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-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
PH-光電材料 (Photoelectronic Materials)	
SUN-PH-013 P7-0028	**Alkyl Chain Length Effect on the Polymorphism of Stimuli-Responsive Ethynylanthracene Derivatives** Wen-Yu Chung, Academia Sinica
SUN-PH-020 P7-0063	**Effective Photocatalytic CO_2 Reduction Using PEDOT-Functionalized Cu@Graphene Nanowires** Zi-Yu Chen, University of Taipei
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-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-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-060 P7-0062	**Polymorphic Acrylamide-Based Molecules: Fluorochromism is Triggered by Photons in the Solid State** Chin-Han Lee, Academia Sinica
PI-奈米孔洞材料 (Nanoporous Materials)	
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-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-031 P8-0029	**Cutting-edge Redox-responsive Mesoporous Organo-silica Nanoparticles for PROTAC-driven Mutant Huntingtin Degradation** Ozi Adi Saputra, Academia Sinica
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