

Student Poster Presentation Competition List (20250923 updated)

Abstract No.	Symposium	Presentation Title	Presenting Author	Affiliation
0064	A	Optical Properties and Thermal Stability of Colorful Molybdenum Oxide-Based Spectrally Selective Absorbers	Yu-Ting Yeh	National Formosa University
0076	A	Recovery of Metal Iodides from Waste Polarizer Films and Lead-Acid Batteries for the Synthesis of Perovskite Solar Cells	Jun-An Su	National Chung Hsing University
0104	A	BCFZY(BaCoFeZrYO ₃)/BCZYYb(BaCeZrYYbO ₃) composite cathode coatings by screen-printing method for protonic solid oxide fuel cell	Tzu-Wei Tseng	National Pingtung University of Science and Technology
0118	A	Scale-Up of Air Atmospheric Pressure Plasma Modification on Graphite Felt Electrodes for Improved Performance in All-Vanadium Redox Flow Batteries	Chun Hsiang Lin	National Taiwan University of Science and Technology
0186	A	Enhanced Vanadium Redox Flow Battery Performance via High-Entropy Spinel Oxide/rGO Composite Electrocatalyst	Shao-Ming Tseng	National Taiwan University of Science and Technology
0202	A	Heterogeneous Assembly of Pt-clusters On Hierarchically Structured CoOx@SnPd ₂ @SnO ₂ Quaternary Nanocatalysts Manifesting Oxygen Reduction Reaction Performance	Shu-Yu Lee	National Tsing Hua University
0214	A	Bifunctional Pt-SnO _x Nanorods for Enhanced Oxygen Reduction and Hydrogen Evolution Reactions.	Shih-Han Wang	National Tsing Hua University
0238	A	Wireless Integrated Perovskite-Photoelectrochemical Water Splitting for Bias-Free Artificial Leaf Hydrogen Production	Yu-Chen Huang	National Taiwan University of Science and Technology
0239	A	The Synergetic Collaboration Between Pd and Locally Tetrahedrally-Coordinated Ni Oxide Significantly Enhances the Efficiency of CO ₂ Thermal Methanation	Fa-Chih Pai	National Tsing Hua University
0242	A	Magnetron Sputtered Binder-Free Mo ₂ N-Carbon Composite Films for High-Performance Flexible Supercapacitors	Nikita Yadav	National Taiwan University of Science and Technology
0255	A	High-efficiency hydrogen evolution across universal pH levels is achieved using a PtRh nanoalloy supported on NiO _x	Chien-Yi Liu	National Tsing Hua University
0259	A	MoS ₂ /TiO ₂ /GF was prepared using liquid phase deposition and hydrothermal methods for application in VRFB to enhance efficiency.	Yi-Wen Wu	Asia University
0274	A	Investigation of ZnO-Modified Ag/Carbon Black Cathode Catalysts via Atomic Layer Deposition for Anion Exchange Membrane Fuel Cells	Chih-Yu Chen	National Tsinghua University
0312	A	Sustainable Hydrogen Generation Using Biochar Electrodes and Visible-Light-Active ZnS:Cu Nanocrystals	Yu-Ting Chen	National Cheng Kung University
0340	A	Enhanced harvest of solar energy via the sequential growth and stacking of p-type and n-type nanocrystals on organic semiconductors for Photocatalytic Hydrogen Evolution	Chia I Wu	National Cheng Kung University
0341	A	Growth and distribution of metal-organic framework crystals within deposited layers of conductive ITO nanoparticles for electrocatalytic oxygen evolution	Wei-Han Lu	National Cheng Kung University
0342	A	Multi-Physical Field Integration in Fe ₃ O ₄ @Au-Porphyrin Composites for Efficient Photocatalytic Water Splitting	Peng-Hsu Lin	National Cheng Kung University
0346	A	Development of 2D Molecular Complex Photocatalysts for Enhanced Hydrogen Evolution via Polarization Engineering	Cheng-Yueh Lu	National Cheng Kung University
0348	A	Integrated Approach of Plasma-Treated Copper and Dispersant-Assisted Graphene/Epoxy Composite Coatings for Enhanced Heat Dissipation	Min-Jie Wu	Tamkang University
0360	A	Layered MXene-PEDOT:PSS Films Electropolymerized onto Graphite Felt to Boost VRFB Electrochemical Performance	Bo-Yu Lin	Ming Chi University of Technology

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0411	A	Electro-oxidized WS _{2-x} /STO Heterostructures for Improved Photoelectrochemical Hydrogen Generation	Ko Tung-Ching	National Chung Hsing University
0412	A	Growth of high-quality g-C ₃ N ₄ thin films via CVD and their application in photocatalytic CO ₂ reduction	Li-Ying Lin	National Taiwan Ocean University
0421	A	Synthesis and characterization of high-entropy ceramics of (Mg _{0.2} Zn _{0.2} Bi _{0.2} Mn _{0.2} Co _{0.2}) ₂ SiO ₄ and (Mg _{0.2} Zn _{0.2} Bi _{0.2} Mn _{0.2} Ni _{0.2}) ₂ SiO ₄	Hsi-Shan Chen	National Taiwan University of Science and Technology
0451	A	Engineering MoSe ₂ /BiCo ₂ O ₄ Heterostructures via Spin-Coating for Enhanced Electrocatalytic Water Splitting and Urea Oxidation	Kai-Hsuan Lin	National Taipei University of Technology
0458	A	Spin-Coated CuGaO ₂ Thin Films for Efficient Photocatalytic Water Splitting and Pollutant Degradation	Yu-Hsiang Chen	National Taipei University of Technology
0459	A	Multi-Cation Cu ₂ Co _{0.5} Ni _{0.5} SnS ₄ Thin Films: A Novel Quinary Sulfide Catalyst for Energy Conversion Reactions	Tien-Chun Tseng	National Taipei University of Technology
0483	A	Eco-Friendly CdS/Zn(O,S)/AZO Coatings on CIGS _{Se} for Stable Photoelectrochemical Performance: XANES Characterization of Interface Chemistry and Defect Passivation	Tsung-Yen Tsai	National Tsing Hua University
0484	A	Fabrication of Ni–Mo–Based Thin-Film Electrodes by RF-Magnetron Sputtering for Efficient Hydrogen Evolution Reaction	Yu-Siung Huang	National Taiwan University of Science and Technology
0492	A	Electrodeposition of Pd/Poly(3,4-ethylenedioxythiophene) Composite Films as Photocathodes for Photoelectrochemical Hydrogen Generation	Yu Zhou	Institute of Science Tokyo
0018	B	The FeAl-based nucleation layer effects on magnetic properties and microstructure of FePt films	Chien-Yu Kuo	National Chung Hsing University
0061	B	Development of Nanocrystalline Silicon EGFET for pH Sensing Applications via R-ALILE Fabrication Process	Yan-Zhang Yu	National Kaohsiung University of Science and Technology
0087	B	Photocatalytic Material for Solar Hydrogen Production Based on Biochar with Quasi-Quantum Well Structure	Ke-Hsin Chen	National Cheng Kung University
0091	B	Magnetostriction and magnetic properties of sputtered Fe _{100-x} M _x (M=V and Cr) films.	Min-Chi Wu	National Chung Cheng University
0093	B	Enhancement of PDMS-AI TENG performance using repeatable rapid AAO barrier mold and polymer casting	Chia-Wei Hung	National Cheng Kung University
0188	B	Ti ₃ C ₂ T _x MXene–Modified PBG Scaffolds: Tailoring Conductivity and Mechanical Properties of Electroactive Polypeptide Composites	Yu-Yuan Ku	National Taipei University of Technology
0200	B	Effects of Ti Interlayer on the Stress and Energy Relief of TiN/Ti/TiN/Ti Multilayer Thin Films	I-Sheng Ting	National Tsing Hua University
0201	B	Ab-initio Investigation of Interfacial Energies in 2D Layered Bi ₂ O ₂ X (X = Se, S, and Te)(001)/SrTiO ₃ (001) Heterostructures	Wen-Ding Wei	National Chung Hsing University
0236	B	Recyclable TiO ₂ @Fe ₃ O ₄ @Ag Nanostructures with Integrated SERS Detection, Photocatalytic Activity, and Magnetic Recovery	Huang, Chi-Chieh	Ming Chi University of Technology
0261	B	Study on the Preparation of WS ₂ /MXene for supercapacitors by High Pressure Hydrothermal Method	Yuan-Hsin Cheng	Asia University
0277	B	Emission Enhancement in Ag Nanocube-Based Nanogap Structures	Yua Imai	Kitami Institute of Technology

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0293	B	Surface Modification of High Density Polyethylene Chemical Container by Atmospheric Pressure Plasma Technique	Zhen-Gui Yang	National United University
0300	B	Bioinspired Cactus Spine-Like Self-Driven Microfluidic SERS Platform with Electrically Stimulated Bacteria for Microbial Detection	You-Yu Liao	Ming Chi University of Technology
0324	B	Optimization of Annealing Conditions for Fabricating Ag/WO ₃ /Ag Plasmonic Nanocavity Structures	Shota Takahashi	Kitami Institute of Technology
0467	B	Study of the Micromechanical Properties of Synthetic Mica under Various Stress Angles via Nanoindentation	Yu Hao Tu	National Tsing Hua University
0496	B	Designing Plasmonic Au@CdS Yolk@Shell Nanostructures for Enhanced Photocatalysis	Junghoe Her	Institute of Science Tokyo
0049	C	Sputter-Deposited α -MoO ₃ Interlayers for van der Waals Epitaxy and Film Transfer	Yeomin Yoon	Myongji University
0115	C	Enhancing electrical properties of TiO ₂ dielectric thin films via Sc doping for next-generation DRAM capacitor	Seungwoo Lee	Kyung Hee University
0175	C	Characterization of Gallium Nitride Thin Films Grown on Tungsten Disulfide by Molecular Beam Epitaxy	Tang-Chin Lo	National Dong-Hwa University
0267	C	Epitaxial Growth and Characterization of High-quality Mg ₃ Sb ₂ and Mg ₃ Bi ₂ Thin Films for Thermoelectric Applications	Akito Ayukawa	Ibaraki University
0271	C	Introduced EtOH as a pre-reduction agent of molybdenum dioxide electrodes for enhanced electrical properties based on X-ray analysis	Soo Min Yoo	KyungHee University
0275	C	Ambient Sequential Deposition Perovskite Solar Cells via Co-Solvent Engineering	Pin-Hao Chao	Ming Chi University of Technology
0306	C	Controlled Nickel Doping in Ga ₂ O ₃ Thin Films via Alternating Dual-Target Sputtering: Structural and Electrical Properties	Ruo-Yan Huang Yaoqi Ke	Jimei University
0309	C	Effect of Acceptor LUMO Levels on the Performance of Photomultiplication-Type Organic Photodetectors	Hong-Yu Chen	National Taiwan University of Science and Technology
0339	C	Dependence of Growth Temperature on Characteristics of MOCVD ϵ -Ga ₂ O ₃ Films for Deep Ultraviolet Photodetectors	Tsai-Yun Chang	National Chung Hsing University
0350	C	Analysis of self heating effect in GAAFET with different parasitic channel thicknesses at the 3nm node by TCAD simulation	Hsu-Jui Chen	National Chung Hsing University
0415	C	Enhanced Triboelectric Performance of MoO _{3-x} /PVDF-HFP Nanofiber TENGs via Atomic Layer Deposition	Feng Xiang Yeh	National Taipei University of Technology
0416	C	Interfacial Dipole Engineering Enables High-Efficiency Perovskite Solar Cells with Non-Fullerene Electron Transport Layers	Wen-Ting Li	Ming Chi University of Technology
0432	C	Fabrication of Large-Scale Single-Crystal Copper Foils with Atomic-Scale Flatness via Muscovite-Assisted Method	Tzu-Ming Chan	National Tsing Hua University
0433	C	Modulation of Bi ₂ O ₂ Se and its heterogeneous integration with silicon substrate	Wei-Ting Chen	National Tsing Hua University
0439	C	Transferred High-Crystallinity Thin Films onto Gelatin Substrates via Mica Delamination for Flexible and Biodegradable Electronics	Tsai-Jou Chuang	National Yang Ming Chiao Tung University

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0446	C	Epitaxial 2D Bi ₂ O ₂ Te: An Emerging Material for the Next-Generation Semiconductor Industry	Yu-Ju Lin	National Yang Ming Chiao Tung University
0452	C	Bi ₂ O ₂ Se /PbHfO ₃ Heteroepitaxy for Antiferroelectric Field-Effect Transistor	Ping-Li Huang	National Tsing Hua University
0487	C	Isoprene Gas Sensing Property of Si-doped Tungsten Oxide Films with Pd Surface Decoration	You-Peng Chen	National Cheng Kung University
0062	D	A Comparison on Transition Metal Nitride Coatings Deposited by RFMS and HiPIMS Techniques	G.T Chou	National United University
0065	D	Effect of Oxygen Content and Thickness on the Structure and Property of ZrN and Zr(O,N) Thin Films	Yi-Cheng Yang	National Tsing Hua University
0088	D	The Effects of Composition and Coating Thickness on the Mechanical Properties of TiZrN Coatings	Te-I Huang	National Tsing Hua University
0133	D	Study of Organic/Silica Hydrophobic Composite Layer on Stainless Steel Prepared by Atmospheric Pressure Plasma Jet	Ching Wen Yu	National Taiwan University of Science and Technology
0149	D	Effects of Metal Interlayers on Residual Stress Relief in γ-Mo ₂ N/Ti and γ-Mo ₂ N/Mo Thin Films	Zi-Rui Huang	National Tsing Hua University
0173	D	Effect of Silicon Sputtering Power on the Properties of TaSiN Thin Films	Y.Y. Yao	National United University
0203	D	Wear Behavior of As-Hydrided Zircaloy-4: Role of Hydride Distribution	Cheng-Han Wu	National Tsing Hua University
0462	D	Effect of MoS ₂ additives on corrosion resistance of Al ₂ TiO ₅ -TiO ₂ plasma electrolytic oxidation coatings	Neng-Kun Cheng	National Taiwan University of Science and Technology
0491	D	Development of Ti Metallic Glass Thin Films by Low-vacuum Air-based Sputtering	Xin-Xian Yang	National Chung Hsing University
0143	E	Study on the application of multifunctional surface coating on titanium surface to promote tissue regeneration and inhibit oral cancer	Yu-Rou Lin	Taipei Medical University
0191	E	Antibacterial Coating and Raman Enhancing Bio-detection by Conductive Polymer with Graphene Oxide and Silver Nanoparticles	Hsiang-Ting Lan	Ming Chi University of Technology
0237	E	Photocatalytic Antibacterial Application of Chlorophyll-Doped Carbon Quantum Dots	Yong-Yi Lo	Ming Chi University of Technology
0243	E	Preparation of Hydrogenated Titanium for Orthopedic Implant Application	Chihsiang Tang	National Taipei University of Technology
0254	E	Bendable iridium oxide–polydopamine composite microelectrodes integrated with a soft electrochemical actuator for optic nerve interface applications	Guei-Jhen Jhang	National Taipei University of Technology
0283	E	Plasma- Assisted Fabrication and Modification of Organic Thin Films for Biosensor Applications	Pei Chen Wu	Tamkang University
0314	E	Design of Gold Nanoparticles (AuNPs) Embedded Organic Coatings Platforms for Biomedical Applications	Chen-Hung Chan	Tamkang University
0317	E	Electrochemical Fabrication of a Multifunctional PEDOT:PSS/Carbon Quantum Dot/g-C ₃ N ₄ Composite Coating for Light-Driven Antibacterial and Self-Cleaning Applications	Yu-Xiang Wang	Ming Chi University of Technology

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0325	E	Hydrothermal Reduction-Controlled Tuning of Graphene Oxide Coatings on Titanium Bone Screws: Structure, Surface Morphology, and Biomedical Relevance	Yu Lo	Chung Yuan Christian University
0326	E	Plasma-Polymerized DEODMS and HMDSZ Films with UV-Induced Grafting of Thermosensitive Hydrogels for Lanthanum Chloride -Enhance Antibacterial Stainless Steel	Chih-Yun Yeh	Tamkang University
0331	E	Electrospun Chitosan/Zein Fibrous Membranes: Fabrication, Characterization, and Potential for Biomedical Applications	Ping Wei Ko	Tamkang University
0364	E	Promoting Angiogenesis and Osteogenesis while Inhibiting Osteoclastogenesis of Polyetherketoneketone Implant Surface through Grafting Type I Collagen via Different Natural Crosslinkers	Kai-Yi Lin	National Yang Ming Chiao Tung University
0409	E	Design with Functional Coatings by Controlled Surface Mobility in Magnetron Sputtering	Ju-Cheng Li	Ming Chi University of Technology.
0069	F	Analysis of High-Temperature Oxidation Behavior of AlTiN-Based Multilayer Coatings	Ching-Chieh Lin	National Formosa University
0213	F	Electrocatalysis Performance Analysis of FeNi _x MoWCu High Entropy Alloy Thin Films	Yen-Chin Lai	National Taipei University of Technology
0232	F	Mechanical properties evaluation of CrMoNbTiW high entropy alloy carbide thin films	Han-Chieh Chen	Ming Chi University of Technology
0252	F	Corrosion resistance and mechanical properties of AlCrNbSiTiMo high entropy alloy films fabricated by HiPIMS: effect of Mo contents	Chang-Yi Jiang	Ming Chi University of Technology
0288	F	Investigating properties of ball milled AlCrNb _{0.5} SiTi High Entropy Alloy powders for thermal spraying	Yuan Deng	National Yang Ming Chiao Tung University
0302	F	Fabrication and property evaluation of AlCrNbSiTi high entropy alloy coatings by high power impulse magnetron sputtering: effect of Nb content	Sheng Jui Tseng	National Taipei University of Technology
0316	F	The study of the reactive sputtering of CrMoNbWN medium entropy alloy nitride films by a superimposed HiPIMS-MF sputtering system: effect of nitrogen content	ChunHao Chang	National Taipei University of Technology
0319	F	CrMoNbWTiN Nitride Films Deposited by Superimposed HiPIMS-MF Sputtering with PEM Feedback Control: Microstructure and Property Analysis	Bing-Yan Lu	National Taipei University of Technology
0447	F	Flexible High-Entropy Relaxor Ferroelectric for Sustainable Piezoelectric Sensors	Yu-En Pan	National Tsing Hua University
0473	F	High Entropy Oxide/Alloys: Tailoring separator coating for next-generation lithium sulfur batteries	Indah ayu Purwaningrum	National Cheng Kung University
0025	G	Exploring segregant effects on heat-assisted FePt media and performing deep learning in microstructural image segmentation	Jun-Hao Weng	National Chung Hsing University
0111	G	Enhancement of anisotropic magnetoresistance for NiFe films with IrMn capping layer	Guan Wei Huang	National Chung Cheng University
0310	G	Ab initio studies of work function changes and adsorption energy of CO ₂ adsorption on SnO ₂ (110) surfaces for gas sensors	Wen-Ding Wei	National Chung Hsing University
0414	G	Simulating the impact of various hole transport layers on CsPbI ₂ Br perovskite solar cells under indoor low-light conditions using SCPAS-1D	Chih-Hsi Peng	National Changhua University of Education
0424	G	Mechanistic Insights into Ferroelectric Phase Stabilization of HZO on Nitrogen-Doped Amorphous Al ₂ O ₃ Interfacial Layer	Yuan-An Lin	National Tsing Hua University

