

<b>Poster Session / October 27, Monday 17:00-18:30</b>				
<b>Abstract No.</b>	<b>No.</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
0024	A-P-24	Sol-gel Fabrication of Silver-doped CuAlO <sub>2</sub> Thin Films with Enhanced Thermoelectric Properties	Cheng-Han Tsai	National Chi Nan University
0036	A-P-36	Enhanced long-term cyclic durability of electrochromic WO <sub>3</sub> thin films by stacking Ta <sub>2</sub> O <sub>5</sub> layer	JeongHoon Yang	MyongJi University
0041	A-P-41	Effects of Bimetallic Composite Catalysts on Electrochemical Carbon Dioxide Reduction Reaction	Chia-Hsiung Chang	National United University
0043	A-P-43	Preparation and characterization of SiO <sub>2</sub> microsphere based radiative cooling thick films	Pin-Han Chen	National Taiwan University of Science and Technology
0060	A-P-60	A fuel-cell-type multi-terminal sensor for high-concentration hydrogen gas monitoring	Seong-Jun Kwon	Hanbat National University
0064	A-P-64	Optical Properties and Thermal Stability of Colorful Molybdenum Oxide-Based Spectrally Selective Absorbers	Yu-Ting Yeh	National Formosa University
0076	A-P-76	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
0084	A-P-84	Design and characterization of zeolite-based hydrophobic films for radiative cooling	Shou-Yi Chang	National Taiwan University of Science and Technology
0104	A-P-104	BCFZY(BaCoFeZrYO <sub>3</sub> )/BCZYYb(BaCeZrYYbO <sub>3</sub> ) composite cathode coatings by screen-printing method for protonic solid oxide fuel cell	Tzu-Wei, Tseng	National Pingtung University of Science and Technology
0107	A-P-107	Oat Powder-Doped PDMS triboelectric nanogenerator for Enhanced Electric Output performance and Its application	You-Jun Huang	National Cheng Kung University
0118	A-P-118	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
0178	A-P-178	Study on Sputtered Molybdenum Nitride Films for Hydrogen Generation Catalysts	Hung-I Wu	National Yunlin University of Science and Technology

0182	A-P-182	Co-Sputtered Thermoelectric Layers on PEDOT:PSS Fibers for Enhanced Performance	Seungwoo Han	Korea Institute of Machinery and Materials
0186	A-P-186	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-P-202	Heterogeneous Assembly of Pt-clusters On Hierarchically Structured CoOx@SnPd <sub>2</sub> @SnO <sub>2</sub> Quaternary Nanocatalysts Manifesting Oxygen Reduction Reaction Performance	Shu-Yu Lee	National Tsing Hua University
0214	A-P-214	Bifunctional Pt–SnOx Nanorods for Enhanced Oxygen Reduction and Hydrogen Evolution Reactions.	Shih-Han Wang	National Tsing Hua University
0215	A-P-215	Fabrication and Performance Optimization of PZT Thin-Film Ultrasonic Sensing Chips on Silicon Substrates	Ting-Heng Shieh	National Chi Nan University
0238	A-P-238	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-P-239	The Synergetic Collaboration Between Pd and Locally Tetrahedrally-Coordinated Ni Oxide Significantly Enhances the Efficiency of CO <sub>2</sub> Thermal Methanation	Fa-Chih Pai	National Tsing Hua University
0242	A-P-242	Magnetron Sputtered Binder-Free Mo <sub>2</sub> N–Carbon Composite Films for High-Performance Flexible Supercapacitors	Nikita Yadav	National Taiwan University of Science and Technology
0255	A-P-255	High-efficiency hydrogen evolution across universal pH levels is achieved using a PtRh nanoalloy supported on NiO <sub>x</sub>	Chien-Yi Liu	National Tsing Hua University
0256	A-P-256	Reactive Sputtering of MoO <sub>x</sub> on Ni Foam: Influence of Ar/O <sub>2</sub> Ratio and Post-Annealing on Bifunctional Water Splitting Activity	Meng-Ju Li	National United University
0259	A-P-259	MoS <sub>2</sub> /TiO <sub>2</sub> /GF was prepared using liquid phase deposition and hydrothermal methods for application in VRFB to enhance efficiency.	Yi-Wen Wu	Asia University
0269	A-P-269	Investigation of blocking layer effect on the fabrication of SDC-based SOFC	Tai-Nan Lin	National Atomic Research Institute
0274	A-P-274	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
0299	A-P-299	Mo-Ni Alloy Thin Film Catalysts Synthesized by Co-Sputtering for Enhanced Hydrogen Evolution Reaction	Zhe-Yu Liu	National United University

0312	A-P-312	Sustainable Hydrogen Generation Using Biochar Electrodes and Visible-Light-Active ZnS:Cu Nanocrystals	Yu-Ting Chen	National Cheng Kung University
0340	A-P-340	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-P-341	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-P-342	Multi-Physical Field Integration in Fe <sub>3</sub> O <sub>4</sub> @Au–Porphyrin Composites for Efficient Photocatalytic Water Splitting	Peng-Hsu Lin	National Cheng Kung University
0346	A-P-346	Development of 2D Molecular Complex Photocatalysts for Enhanced Hydrogen Evolution via Polarization Engineering	Cheng-Yueh Lu	National Cheng Kung University
0348	A-P-348	Integrated Approach of Plasma-Treated Copper and Dispersant-Assisted Graphene/Epoxy Composite Coatings for Enhanced Heat Dissipation	Min-Jie Wu	Tamkang University
0360	A-P-360	Layered MXene-PEDOT:PSS Films Electropolymerized onto Graphite Felt to Boost VRFB Electrochemical Performance	Bo-Yu Lin	Ming Chi University of Technology
0411	A-P-411	Electro-oxidized WS <sub>2-x</sub> /STO Heterostructures for Improved Photoelectrochemical Hydrogen Generation	Ko Tung-Ching	National Chung Hsing University
0412	A-P-412	Growth of high-quality g-C <sub>3</sub> N <sub>4</sub> thin films via CVD and their application in photocatalytic CO <sub>2</sub> reduction	Li-Ying Lin	National Taiwan Ocean University
0421	A-P-421	Synthesis and characterization of high-entropy ceramics of (Mg <sub>0.2</sub> Zn <sub>0.2</sub> Bi <sub>0.2</sub> Mn <sub>0.2</sub> Co <sub>0.2</sub> ) <sub>2</sub> SiO <sub>4</sub> and (Mg <sub>0.2</sub> Zn <sub>0.2</sub> Bi <sub>0.2</sub> Mn <sub>0.2</sub> Ni <sub>0.2</sub> ) <sub>2</sub> SiO <sub>4</sub>	Hsi-Shan Chen	National Taiwan University of Science and Technology
0437	A-P-437	Electrochemical and Interfacial Contact Resistance Characteristics of TiCN-Coated Titanium Bipolar Plates for PEMFCs	Seong-Jong Kim	<a href="#">Mokpo National Maritime University</a>
0442	A-P-442	Effects of nitrogen flow control on electrochemical characteristics of TiN-coated 316L stainless steel	Dong-Ho Shin	Mokpo National Maritime University
0451	A-P-451	Engineering MoSe <sub>2</sub> /BiCo <sub>2</sub> O <sub>4</sub> Heterostructures via Spin-Coating for Enhanced Electrocatalytic Water Splitting and Urea Oxidation	Kai-Hsuan Lin	National Taipei University of Technology
0458	A-P-458	Spin-Coated CuGaO <sub>2</sub> Thin Films for Efficient Photocatalytic Water Splitting and Pollutant Degradation	Yu-Hsiang Chen	National Taipei University of Technology

0459	A-P-459	Multi-Cation $\text{Cu}_2\text{Co}_{0.5}\text{Ni}_{0.5}\text{SnS}_4$ Thin Films: A Novel Quinary Sulfide Catalyst for Energy Conversion Reactions	Tien-Chun Tseng	National Taipei University of Technology
0483	A-P-483	Eco-Friendly $\text{CdS}/\text{Zn}(\text{O,S})/\text{AZO}$ Coatings on $\text{CIGSSe}$ for Stable Photoelectrochemical Performance: XANES Characterization of Interface Chemistry and Defect Passivation	Tsung-Yen Tsai	National Tsing Hua University
0484	A-P-484	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
0488	A-P-488	Effects of Vacuum and Reductive Annealing on the Photocurrent Performance of $\text{TiO}_2/\text{TiN}$ thin films Deposited by Air-based Sputtering	Chia-Hua Yang	National Chung Hsing University
0489	A-P-489	Effects of TiN Thickness on the Photoelectrochemical Response of $\text{SrTiO}_3/\text{TiO}_2/\text{TiN}$ Thin Films Synthesized by a Hydrothermal–Galvanic Couple Method with Reductive Annealing	Yi-Ting Chen	National Chung Hsing University
0492	A-P-492	Electrodeposition of Pd/Poly(3,4-ethylenedioxythiophene) Composite Films as Photocathodes for Photoelectrochemical Hydrogen Generation	Yu Zhou	Institute of Science Tokyo
0493	A-P-493	Air-based Sputtering Deposition of Tantalum Oxynitride Thin Films for Visible-Light Photocatalysis Evaluations	Yu-Wei Su	National Chung Hsing University
0495	A-P-495	Conductive TiN Underlayer-Dependent Charge Separation in $\text{SrTiO}_3/\text{TiO}_2$ Heterostructure Films for PEC and Photocatalysis by a Hydrothermal–Galvanic Couple Method with Reductive Annealing	Yu-Bo Tsai	National Chung Hsing University
0018	B-P-18	The FeAl-based nucleation layer effects on magnetic properties and microstructure of FePt films	Chien-Yu Kuo	National Chung Hsing University
0056	B-P-56	A novel PDMS/AAO/Al pressure sensor by hybrid triboelectric and capacitive sensing mechanism	Chen-Kuei Chung	National Cheng Kung University
0058	B-P-58	Fabrication and Morphological Tuning of Al Nanotriangle arrays via Nanosphere Lithography	Taisei Kumeta	Kitami Institute of Technology
0061	B-P-61	Development of Nanocrystalline Silicon EGFET for pH Sensing Applications via R-ALILE Fabrication Process	Yan-Zhang Yu	National Kaohsiung University of Science and Technology
0070	B-P-70	Broadband Photodetectors Enabled by ZnO Nanorod/ Y-doped $\text{ZrO}_2$ Structures	Cheng-Shan Chen	National Chi Nan University

0087	B-P-87	Photocatalytic Material for Solar Hydrogen Production Based on Biochar with Quasi-Quantum Well Structure	Ke-Hsin Chen	National Cheng Kung University
0091	B-P-91	Magnetostriction and magnetic properties of sputtered Fe <sub>100-x</sub> M <sub>x</sub> (M=V and Cr) films.	Min-Chi Wu	National Chung Cheng University
0092	B-P-92	Enhancement of TENG output performance using a novel bilayer triboelectric nanocomposite film with P25 TiO <sub>2</sub> -doped PDMS	Chen-Kuei Chung	National Cheng Kung University
0093	B-P-93	Enhancement of PDMS-Al TENG performance using repeatable rapid AAO barrier mold and polymer casting	Chia-Wei Hung	National Cheng Kung University
0095	B-P-95	Optical Characteristics of Metal Nanohole Arrays Using Electron Beam Lithography with Character Projection	Keisuke Ikeda	Kitami Institute of Technology
0117	B-P-117	Cation-Doped CuInS <sub>2</sub> Quantum Dots Treated by High-Sulfur-Pressure Annealing for Mid-Gap Suppression and Photovoltaic Enhancement	Li-Lun Chen	National Cheng Kung University
0165	B-P-165	Microwave Plasma-Enhanced ALD of High-Quality Al <sub>2</sub> O <sub>3</sub> Films on 12-Inch Wafers for Advanced Dielectric Applications	Yu-Quan Zhu	Xiamen University of Technology
0188	B-P-188	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene-Modified PBG Scaffolds: Tailoring Conductivity and Mechanical Properties of Electroactive Polypeptide Composites	Yu-Yuan Ku	National Taipei University of Technology
0190	B-P-190	Amperometric detection of 4-NQO and H <sub>2</sub> O <sub>2</sub> using the doped-Ni <sub>3</sub> N deposited ITO electrode	Nishchal Pardhi	National Taiwan University of Science and Technology Ming Chi University of Technology
0200	B-P-200	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-P-201	Ab-initio Investigation of Interfacial Energies in 2D Layered Bi <sub>2</sub> O <sub>2</sub> X (X = Se, S, and Te)(001)/SrTiO <sub>3</sub> (001) Heterostructures	Wen-Ding Wei	National Chung Hsing University
0216	B-P-216	Effect of Pulse Width in High-Power Impulse Facing Target Sputtering on Tungsten Oxide Films for Hydrogen Gas Sensing	Yoji Yasuda	Tokyo Polytechnic University
0217	B-P-217	Carbonization of Nickel hydroxide nano hexagonal platelets for the improvement of water splitting	Jia-An Chou	Ming Chi University of Technology
0219	B-P-219	Performance enhancement of ZnO gas sensors via surface modification with silver	Yen-Wei Chen	National Taiwan University of Science and Technology

0221	B-P-221	Thickness Ratio-Dependent Microstructure, Mechanical Properties, and Residual Stress Measured by FIB-DIC in Cu/Zr <sub>69</sub> Cu <sub>24</sub> Ti <sub>7</sub> Bilayer Thin Films by High-Power Magnetron Pulsed Sputtering	Chun-Heng Wei	National Chung Hsing University
0236	B-P-236	Recyclable TiO <sub>2</sub> @Fe <sub>3</sub> O <sub>4</sub> @Ag Nanostructures with Integrated SERS Detection, Photocatalytic Activity, and Magnetic Recovery	Chi-Chieh Huang	Ming Chi University of Technology
0241	B-P-241	Enhanced Photocatalytic CO <sub>2</sub> -to-Methanol Conversion Using Amine-loaded CuO/ZnO Catalysts on 3D Metallic Nanotube Array Substrate	Hsiang-Heng Shih	National Taiwan University of Science and Technology
0247	B-P-247	Micro/submicro/nano-textured CaTiO <sub>3</sub> coating on low-modulus Ti–13Nb–7Sn–4Mo alloy using oyster shell-derived calcium for improved bioactivity	Zhong-Xin Chen	National University of Kaohsiung
0261	B-P-261	Study on the Preparation of WS <sub>2</sub> /MXene for supercapacitors by High Pressure Hydrothermal Method	Yuan-Hsin Cheng	Asia University
0266	B-P-266	Crystal polarity control of ZnO films with a nitrogen pretreatment by plasma-enhanced chemical vapor deposition	I-Ang Chang	National Taipei University of Technology
0277	B-P-277	Emission Enhancement in Ag Nanocube-Based Nanogap Structures	Yua Imai	Kitami Institute of Technology
0278	B-P-278	Synthesis of WSe <sub>2</sub> Monolayer under Varied Temperatures and Annealing Conditions	Ting-En Su	National Center for Instrumentation Research, National Institutes of Applied Research
0279	B-P-279	Epitaxial Growth of Highly Aligned WS <sub>2</sub> Flakes on Miscut c-plane Sapphire Substrates	Yu-Ching Liao	National Center for Instrumentation Research, National Institutes of Applied Research
0281	B-P-281	Electrochemical Performance Analysis of MoS <sub>2</sub> and Nitrogen-Doped Nanodiamond Composite Nanostructures for Supercapacitor Applications	Bohr-Ran Huang	National Taiwan University of Science and Technology
0284	B-P-284	High-Rate Deposition of Transparent Al <sub>2</sub> O <sub>3</sub> Films by Reactive HiPIMS in Transition Mode	Jin-Yu Shih	National Center for Instrumentation Research
0293	B-P-293	Surface Modification of High Density Polyethylene Chemical Container by Atmospheric Pressure Plasma Technique	Zhen-Gui Yang	National United University
0300	B-P-300	Bioinspired Cactus Spine-Like Self-Driven Microfluidic SERS Platform with Electrically Stimulated Bacteria for Microbial Detection	You-Yu Liao	Ming Chi University of Technology

0305	B-P-305	Free-standing heterostructured CoS-MoS <sub>2</sub> for High-Performance Supercapacitors	Pei-Syuan Lee	Ming Chi University of Technology
0318	B-P-318	Large-Area Growth of 2D Molybdenum Nitride: LPCVD synthesis and Electrical Transport Properties Study	Sheng-Kuei Chiu	National University of Tainan
0324	B-P-324	Optimization of Annealing Conditions for Fabricating Ag/WO <sub>3</sub> /Ag Plasmonic Nanocavity Structures	Shota Takahashi	Kitami Institute of Technology
0337	B-P-337	Low-Friction and Wear-Resistant Mo-Cu-X Nanocomposite Coating for High-Performance Electric Vehicle Drivetrain Components	Yoon Hae Won	Korea Institute of Industrial Technology
0338	B-P-338	Low-Friction and Wear-Resistant Properties of Nanocomposite Coatings for High-Performance Mechanical Components	Yoon Hae Won	Korea Institute of Industrial Technology
0382	B-P-382	CoSe nanosheet array converted from Co-based MOF for the fabrication of hybrid supercapacitor	Chun-Hsien Wu	Ming Chi University of Technology
0388	B-P-388	Characterization on Multi-metallic Copper-Manganese-Cobalt Oxide Thin Films Prepared by a Solution Processing	Bui Nguyen Quoc Trinh	Vietnam National University
0408	B-P-408	Dual-Functional SmWO <sub>2</sub> @S-F-g-C <sub>3</sub> N <sub>4</sub> Nanocomposite for Efficient Electrochemical Sensing and Visible-Light-Driven Photodegradation of the Fungicide Carbendazim	Vijayalakshmi Pandurangan	National Taipei University of Technology
0467	B-P-467	Study of the Micromechanical Properties of Synthetic Mica under Various Stress Angles via Nanoindentation	Yu Hao Tu	National Tsing Hua University
0477	B-P-477	Ultrathin Phosphate-Coated Soft Magnetic Composites for Power Inductors	Cheng-Hsien Yeh	National Cheng Kung University
0482	B-P-482	Oxidation-induced superelasticity in metallic glass nanotubes	Ya-Wen Pi	National Taiwan University of Science and Technology
0490	B-P-490	Tunable hydrophilicity in a surface nano-textured stainless steel thin film deposited by DC magnetron sputtering	Hsuan-Lun Huang	National Taiwan University of Science and Technology
0496	B-P-496	Designing Plasmonic Au@CdS Yolk@Shell Nanostructures for Enhanced Photocatalysis	Junghoe Her	Institute of Science Tokyo
0497	B-P-497	Annealing-manipulated Electrochemical and Electrochromic Properties of IrOx Nanofibrous Films	Wei-Yun Huang	National Taipei University of Technology

0028	C-P-28	Selectorless NbO <sub>x</sub> CBRAM Devices for Reliable Switching Characteristics: Roles of Oxygen Stoichiometry	Mingi Choe	Chosun University
0029	C-P-29	Effect of Rapid Thermal Annealing-induced Crystallization on Resistive Switching in NbO <sub>x</sub> CBRAM	Seung-Min Lee	Chosun University
0031	C-P-31	Synthesis of N-doped DLC by photoemission-assisted plasma CVD: Dependence on discharge mode	Shuichi Ogawa	Nihon University
0033	C-P-33	A novel copper–rhodium alloy thin film with low resistance	Chon-Hsin Lin	Lunghwa University of Science and Technology
0035	C-P-35	Magnetic and Leakage Current Characteristics of Transferred CoFe <sub>2</sub> O <sub>4</sub> /BiFeO <sub>3</sub> Thin Films	Sanghun Kim	Myongji University
0038	C-P-38	Comparative Study of Selective Wet and Dry Etching of Boron-Doped SiGe Layers for Multistacked Memory Device	Joosung Kang	Yonsei University
0049	C-P-49	Sputter-Deposited $\alpha$ -MoO <sub>3</sub> Interlayers for van der Waals Epitaxy and Film Transfer	Yeomin Yoon	Myongji University
0057	C-P-57	Oxygen-Free Sputtering of Co <sub>3</sub> O <sub>4</sub> on Si (100): Crystallinity Enhancement and Resistive Switching for Memory Applications	Yu-Chieh Tseng	National University of Kaohsiung
0078	C-P-78	Influence of oxygen partial pressure and stacking sequence on the structural and electrical properties of NiO/Ga <sub>2</sub> O <sub>3</sub> heterostructures on Si substrates	Shu-Cyuan Wu	National University of Kaohsiung
0085	C-P-85	Engineering tunable resistive and rectifying behaviors in Co <sub>3</sub> O <sub>4</sub> /Ga <sub>2</sub> O <sub>3</sub> bilayer heterostructures via stacking order and oxygen partial pressure control	Chii-Zen Yu	National University of Kaohsiung
0086	C-P-86	Effect of Annealing Temperature on the Electrical Properties of CaTiO <sub>3</sub> /Si MOS Structures Prepared by Liquid Phase Deposition	Zih-Chun Sie	National Kaohsiung University of Science and Technology
0098	C-P-98	Structure and resistivity size effect of sputter-deposited TiSi <sub>2</sub> , CoSi <sub>2</sub> , and NiSi	Jau-Shiung Fang	National Formosa University
0099	C-P-99	Multifunctional Al/ $\beta$ -Ga <sub>2</sub> O <sub>3</sub> /Si (100) hetero-structural film devices exhibiting diode-like rectification and resistive switching behaviour	Cheng-Yen Hu	National University of Kaohsiung
0101	C-P-101	Dual-functional Al/NiO/Si (100) heterostructures exhibiting resistive switching and diode-like behavior for non-volatile memory applications	Xiang-Wei Xia	National University of Kaohsiung

0102	C-P-102	Self-saturated deposition and etching in atomic-scale (SDEA) process demonstrated by self-saturation oxidation and etching behavior of molybdenum oxides with ozone and water	Chaeyeong Hwang	Kyunghee University
0108	C-P-108	Doped NaNbO <sub>3</sub> Composite Alginate-Based Aerogels to Enhance Photocatalytic Activity	Po-Kai Chen	National Cheng Kung University
0109	C-P-109	Tailoring 2D Ruddlesden-Popper Perovskites through B-Site Manganese Substitution for Photoelectrochemical Hydrogen Evolution	Chia-Yu Wu	National Cheng Kung University
0115	C-P-115	Enhancing electrical properties of TiO <sub>2</sub> dielectric thin films via Sc doping for next-generation DRAM capacitor	Seungwoo Lee	Kyung Hee University
0119	C-P-119	Robust cobalt alloy interconnects: Perspective from breakdown voltage and time-dependent-dielectric-breakdown characteristics	Yen-Jui Chen	National Chi Nan University
0120	C-P-120	P-type Nitrogen-doped Ga <sub>2</sub> O <sub>3</sub> by High-Throughput Co-injection Spatial Atomic Layer Deposition	Hang Yu	Xiamen University of Technology
0128	C-P-128	Synthesis of two-dimensional WS <sub>2</sub> by chemical vapor deposition using WF <sub>6</sub> and H <sub>2</sub> S as the precursors	Shu-Han Chen	National Yang Ming Chiao Tung University
0153	C-P-153	Atomic Layer Deposition of Lanthanum Oxide Using New La precursors	Seungmin Han	Air Liquide
0158	C-P-158	Growth of 2D WS <sub>2</sub> by Gas-Flow Enhancement in Vapor Phase Transport	Wei-Lin Wang	National Center for Instrumentation Research
0159	C-P-159	Scalable MOCVD Growth of 2D WS <sub>2</sub> Film on 4-inch Sapphire Wafers	Wei-Lin Wang	National Center for Instrumentation Research
0161	C-P-161	Study of Temperature-Dependent Heteroepitaxial Growth of $\beta$ -Ga <sub>2</sub> O <sub>3</sub> Nucleation Layers on c-Al <sub>2</sub> O <sub>3</sub> by MOCVD	Wei-Chun Chen	National Institutes of Applied Research
0162	C-P-162	Impact of Via Pitch on the Electrical Characteristics of Through-Ceramic Via Structures in AlN Substrates	Sheng-Hong Wang	National Taipei University of Technology
0164	C-P-164	Plasma-Power-Dependent Densification and Optical Properties of Conformal MgF <sub>2</sub> Antireflection Coatings Prepared by PEALD	ZhiXuan Zhang	Xiamen University of Technology
0169	C-P-169	Characterization of Amino-terminated Self-Assembled Monolayer on Cu/Porous low-k Dielectrics	Zhong-Chen Zhang	National Chi Nan University

0175	C-P-175	Characterization of Gallium Nitride Thin Films Grown on Tungsten Disulfide by Molecular Beam Epitaxy	Tang-Chin Lo	National Dong-Hwa University
0193	C-P-193	Effects of doping concentration on the properties of Er-doped Ga <sub>2</sub> O <sub>3</sub> thin films prepared by plasma enhanced atomic layer deposition	Xiao-Ying Zhang	Xiamen University of Technology
0194	C-P-194	Dual-Sided TiO <sub>2</sub> -LiF Multilayer Antireflective Coatings for Enhanced Visible Transparency on Glass Substrates	Wen-Xuan Zhu	Xiamen University of Technology
0207	C-P-207	Enhanced Antireflection Performance of Glass via Alkaline Treatment and Fluoride Coating Design	Yu-Qi Lin	Xiamen University of Technology
0208	C-P-208	High-Performance Light-Emitting Transistors with 3D Mesh Source Electrodes Fabricated by Electrostatic Field Direct Writing	Yuxin Yang	Xiamen University of Technology
0223	C-P-223	Ferroelectricity and Endurance Properties of Ferroelectric HfAlO <sub>2</sub> and HfZrO <sub>2</sub> Bilayer Stacks	I-Cheng Lin	National Taipei University of Technology
0224	C-P-224	Effect of Remote Plasma Nitridation on Aluminum Oxide Capping Layer of Ferroelectric Capacitor Utilizing Hafnium Aluminum Oxide	Chen-Gui Zheng	National Taipei University of Technology
0225	C-P-225	Investigation of Polarization Switching and Endurance in Mixed-Phase Hafnium Zirconium Oxide	Ruo-Yin Liao	National Taiwan Normal University
0226	C-P-226	Improved Endurance Reliability in Ferroelectric and Antiferroelectric HfAlO <sub>x</sub> by Interface Engineering	Ruo-Yin Liao	National Taiwan Normal University
0263	C-P-263	Temperature-Dependent Study on Germanium Layers of GeSn/Ge Multiple Quantum Wells Structure by Modulation Spectroscopy	Tzu-Hsiang Ho	National Dong Hwa University
0265	C-P-265	Optimization of growth conditions for Mg <sub>3</sub> Bi <sub>2</sub> thin films for thermoelectric application	Takeru Kuriyama	Ibaraki University
0267	C-P-267	Epitaxial Growth and Characterization of High-quality Mg <sub>3</sub> Sb <sub>2</sub> and Mg <sub>3</sub> Bi <sub>2</sub> Thin Films for Thermoelectric Applications	Akito Ayukawa	Ibaraki University
0271	C-P-271	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-P-275	Ambient Sequential Deposition Perovskite Solar Cells via Co-Solvent Engineering	Pin-Hao Chao	Ming Chi University of Technology

0280	C-P-280	Effect of Annealing Temperature on the Structural and Photodetection Properties of Zinc Gallium Oxide with Boron Carbide and Boron Nitride Composite Films	Bohr-Ran Huang	National Taiwan University of Science and Technology
0290	C-P-290	Study on the growth mechanism of WS <sub>2</sub> and WSe <sub>2</sub> epitaxial crystals using MOCVD	Cheng-Dian Yan	National Yang Ming Chiao Tung University
0292	C-P-292	Influence of Plasma Power on the properties of AlF <sub>3</sub> antireflective films prepared by plasma-enhanced atomic layer deposition	Jing Zhang	Xiamen University of Technology
0294	C-P-294	Large-Area, Continuous Hexagonal Boron Nitride Films Prepared by Magnetron Sputtering and Post-Annealing	Tzu-Hao, Lin	National Yang Ming Chiao Tung University
0306	C-P-306	Controlled Nickel Doping in Ga <sub>2</sub> O <sub>3</sub> Thin Films via Alternating Dual-Target Sputtering: Structural and Electrical Properties	Ruo-Yan Huang, Yaoqi Ke	Jimei University
0309	C-P-309	Effect of Acceptor LUMO Levels on the Performance of Photomultiplication-Type Organic Photodetectors	Hong-Yu Chen	National Taiwan University of Science and Technology
0321	C-P-321	Investigation of the effect of doping effect of organic solvent vapour transport and noise characteristics of graphene field effect transistors.	Ondřej Šik	Brno university of technology
0335	C-P-335	Feasibility Study on the Chemical Vapor Deposition of 2D WS <sub>2</sub> and WSe <sub>2</sub> Using WO <sub>2</sub> Cl <sub>2</sub> and hydrate gases as the Precursor	Zih-Syun Shen	National Yang Ming Chiao Tung University
0336	C-P-336	Tuning the surface morphology and wettability of ZnO nanostructures via the hydrothermal method	I-Ang Chang	National Taipei University of Technology
0339	C-P-339	Dependence of Growth Temperature on Characteristics of MOCVD ε-Ga <sub>2</sub> O <sub>3</sub> Films for Deep Ultraviolet Photodetectors	Tsai-Yun Chang	National Chung Hsing University
0350	C-P-350	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
0351	C-P-351	Band Structure and Carrier Mobility of Monolayer Germanane: A First-Principles Study	Lin Yan Hsin	National Chung Hsing University
0370	C-P-370	Study on the Chemical, Structural, and Optical Properties of TiN Films Prepared by Novel MPALD at Different Substrate Temperatures	Zong-Yue Li Yaoqi Ke	Jimei University Xiamen Jingmai Technology Co., LTD
0384	C-P-384	Reduction of C54 TiSi <sub>2</sub> formation temperature via the epitaxial effect of MoSi <sub>x</sub>	Seoeun Yoon	Khyung Hee University

0415	C-P-415	Enhanced Triboelectric Performance of MoO <sub>3-x</sub> /PVDF-HFP Nanofiber TENGs via Atomic Layer Deposition	Feng Xiang Yeh	National Taipei University of Technology
0416	C-P-416	Interfacial Dipole Engineering Enables High-Efficiency Perovskite Solar Cells with Non-Fullerene Electron Transport Layers	Wen-Ting Li	Ming Chi University of Technology
0418	C-P-418	Formation of NiSi films and the Effects of Patterned NiSi-Embedded AZO Films on Optical and Electrical Properties	Cheng-Chia Chien	National Formosa University
0425	C-P-425	High-Coercivity CeCo Thin Films Fabricated by DC Sputtering	I-Hsuan Li	National Taipei University of Technology
0432	C-P-432	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-P-433	Modulation of Bi <sub>2</sub> O <sub>2</sub> Se and its heterogeneous integration with silicon substrate	Wei-Ting Chen	National Tsing Hua University
0439	C-P-439	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
0440	C-P-440	Effect of Sapphire Substrate Orientation on the Crystal Structure and Electrical Properties of Mg <sub>3</sub> Bi <sub>2</sub> Thin Films	Kouki Nejo	Ibaraki University
0443	C-P-443	Effects of Ba Substitution on the Properties of La <sub>1-x</sub> Ba <sub>x</sub> CuOSe Thin Films by Post-Selenization Annealing	Po-Sheng Chang	I-Shou University
0444	C-P-444	Structural Evolution and Electrical Properties of Lightly Doped Co–Cu Alloy Films Deposited by EC-ALD	Jau-Shiung Fang	National Formosa University
0446	C-P-446	Epitaxial 2D Bi <sub>2</sub> O <sub>2</sub> Te: An Emerging Material for the Next-Generation Semiconductor Industry	Yu-Ju Lin	National Yang Ming Chiao Tung University
0449	C-P-449	Design of Antireflection Coatings for Triple-Junction Solar Cells and Efficiency Enhancement	Chun-Chieh Hsu	LiveStrong Optoelectronics Co., Ltd.
0452	C-P-452	Bi <sub>2</sub> O <sub>2</sub> Se /PbHfO <sub>3</sub> Heteroepitaxy for Antiferroelectric Field-Effect Transistor	Ping-Li Huang	National Tsing Hua University
0455	C-P-455	Electrical and Reliability of Amino-Terminated Self-Assembled Monolayers as Potential Liners for Cobalt Interconnects	Po-Yu Tseng	National Chi Nan University

0465	C-P-465	Effect of Cu Doping on the Thermal Stability of Ag Films	Yung-Chieh Chou	National Tsing Hua University
0481	C-P-481	Contact Resistance Improvement of IGZO Devices through the Introduction of a Boosting Technique in the Source/Drain Regions	Hyeonmin Jo	SungKyunKwan University
0487	C-P-487	Isoprene Gas Sensing Property of Si-doped Tungsten Oxide Films with Pd Surface Decoration	You-Peng Chen	National Cheng Kung University
0494	C-P-494	Air-based Sputtering Deposition of Amorphous $W_NxO_y$ Films for Electrochromic Applications	Yu-Cheng Chang	National Chung Hsing University
0034	D-P-34	Thermal stability, Oxidation Behavior, and Mechanical Properties of AlTiNbSiN and TiAlNbSiN Coatings	Duc Manh Nguyen	National Formosa University
0045	D-P-45	Protective Coating of Precious Metal Films on High-melting-temperature Metals by Chemical Vapor Deposition	Hiroki Sato	Tohoku University
0046	D-P-46	Synthesis of Copper-Titanium Co-Doped Diamond-Like Carbon Films by Magnetron Sputtering	Oskars Platnieks	Kaunas University of Technology
0062	D-P-62	A Comparison on Transition Metal Nitride Coatings Deposited by RFMS and HiPIMS Techniques	G.T Chou	National United University
0065	D-P-65	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
0077	D-P-77	Characteristics of the S-phase formed on 316L stainless steel surfaces by vacuum nitriding and carburizing	Yuri Choi	Korea Institute of Industrial Technology
0088	D-P-88	The Effects of Composition and Coating Thickness on the Mechanical Properties of TiZrN Coatings	Te-I Huang	National Tsing Hua University
0096	D-P-96	Effect of Substrate Bias on the Microstructure and Characteristics of Titanium Diboride Thin Films Deposited by High-Power Impulse Magnetron Sputtering	Min-Yi Lin	Ming Chi University of Technology
0113	D-P-113	The incorporation of lithium chloride (LiCl) enhances the performance of dehumidification membranes fabricated from PAN/CS composites	Cheng-Fang An	National Chi Nan University
0133	D-P-133	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-P-149	Effects of Metal Interlayers on Residual Stress Relief in $\gamma$ -Mo <sub>2</sub> N/Ti and $\gamma$ -Mo <sub>2</sub> N/Mo Thin Films	Zi-Rui Huang	National Tsing Hua University
0150	D-P-150	Influence of Cr, Ti, and Zr Auxiliary Targets on the Properties of CrAlN-Based Coatings Deposited by Bipulse-HiPIMS	Wan-Yu Wu	National United University
0173	D-P-173	Effect of Silicon Sputtering Power on the Properties of TaSiN Thin Films	Y.Y. Yao	National United University
0187	D-P-187	Electrodeposition of Ni–Mo–W Alloy Coatings Using Sodium Molybdate and Minimal Sodium Tungstate: A Cost-Effective Approach with Enhanced Wear and Corrosion Resistance	Pao-Chang Huang	National Defense University
0203	D-P-203	Wear Behavior of As-Hydrided Zircaloy-4: Role of Hydride Distribution	Cheng-Han Wu	National Tsing Hua University
0204	D-P-204	Protective Pyrolytic Carbon Coatings Prepared by RF-Heated Chemical Vapor Deposition	Hiroki Sato	Tohoku University
0218	D-P-218	Development of a Sequential Treatment Process for Zirconate Conversion Coatings on 7075-T6 Aluminum Alloy	Chia-Hang Tu	National Taiwan University
0220	D-P-220	Improving corrosion–wear resistance of HVOF-sprayed Inconel 625 coatings through micro-shot peening treatment	Chau-Chang Chou	National Atomic Research Institute
0222	D-P-222	The Effect of Sputtering Deposition on the Creep and Internal Friction Behaviors of Zr–Cu–Based Thin–Film Metallic Glasses Characterized Using Laser Doppler Vibrometry and Bulge Testing	Chun-Heng Wei	National Chung Hsing University
0234	D-P-234	Effect of Bias Voltage on Ion Energy and Mechanical Properties of Tetrahedral Amorphous Carbon Thin Films Deposited by High-Power Impulse Magnetron Sputtering	Fu-Sen Yang	National Taiwan University of Science and Technology
0235	D-P-235	Plasma Diagnostics and Mechanical Properties of Tetrahedral Amorphous Carbon Thin Films Deposited by High-Power Impulse Magnetron Sputtering with Varying Inert Gas Mixing Ratios	Chi-Lung Chang	National Taiwan University of Science and Technology
0244	D-P-244	Influence of Substrate Bias on the Microstructural Development and Mechanical Performance of AlCrN and AlCrSiN Thin Films Deposited by Reactive Magnetron Sputtering	Wan-Chang Hsu	National Chung Hsing University
0304	D-P-304	Microstructure and Mechanical Properties of NbN Coatings Deposited by HiPIMS and RFMS Techniques	W.C. Hung	National United University

0330	D-P-330	Effect of Laser Remelting on the Tribology and Corrosion behavior of Arc-Sprayed NiCrMoAl Coatings	Sirinapa Shuecamlue	Chiang Mai University
0367	D-P-367	Encapsulation of Flexible Electronics Using HiPIMS/RFMS-Grown AlON/HfO <sub>x</sub> Multilayers with Superior Moisture Resistance	Li-Chun Chang	Ming Chi University of Technology
0369	D-P-369	Adhesion Behavior of Nickel Alloy Coatings Before and After Immersion Test	Sirinapa Shuecamlue	Chiang Mai University
0377	D-P-377	Effects of Substrate Temperature and Substrate Holder Rotation Speed on the Characterization of (TiZrHfCr) <sub>B<sub>x</sub></sub> Films	Yung-I Chen	National Taiwan Ocean University
0434	D-P-434	Mechanical Behavior of Electrochemically Nickel Alloy Deposited Luffa Sponge	Tzu-Hsiu Hung	National United University
0438	D-P-438	Investigation on the Friction and Wear Behavior of CrN-coated Stainless Steel Using Design of Experiments	Seong-Jong Kim	<a href="#">Mokpo National Maritime University</a>
0441	D-P-441	Investigation of electrochemical oxidation treatment to improve corrosion and wear resistance of DLC-coated 316L stainless steel	Dong-Ho Shin	Mokpo National Maritime University
0462	D-P-462	Effect of MoS <sub>2</sub> additives on corrosion resistance of Al <sub>2</sub> TiO <sub>5</sub> -TiO <sub>2</sub> plasma electrolytic oxidation coatings	Neng-Kun Cheng	National Taiwan University of Science and Technology
0491	D-P-491	Development of Ti Metallic Glass Thin Films by Low-vacuum Air-based Sputtering	Xin-Xian Yang	National Chung Hsing University
0500	D-P-500	Development of boron carbide coating by the thermal spraying method	Yu-Cheng Hu	National Taipei University of Technology
0502	D-P-502	Thermal spray coating with ceramic microspheres for acoustic absorption applications	Yi-Chieh Yang	National Taipei University of Technology
0504	D-P-504	Preparation and characteristics of the thermal sprayed thermal barrier coatings	Don-Cheng Wu	National Taipei University of Technology
0505	D-P-505	Developments of the Slag-Based Geopolymer Coatings by the Flame Spray	Te-Chien Tsou	National Taipei University of Technology
0071	E-P-71	Light Sensing Properties of 1,9-bis(2-hexyldecyl)-bispyrrolo[2,3-f:2',3'-r]rubicene/Zinc Oxide Nanorods Heterostructures	Hui-Ru Wu	National Chi Nan University

0110	E-P-110	Enhancing Photosynthetic Carbon Fixation in Plants Using SrAl <sub>2</sub> O <sub>4</sub> :Eu,Dy Luminescent Coatings	Chia-Hsiang Lee	National Cheng Kung University
0143	E-P-143	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
0147	E-P-147	Strontium-Doped BCP Sol-Gel Coating Enhances Osteogenesis on 3D Titanium Implants	Ying-Sui Sun	Taipei Medical University
0191	E-P-191	Antibacterial Coating and Raman Enhancing Bio-detection by Conductive Polymer with Graphene Oxide and Silver Nanoparticles	Hsiang-Ting Lan	Ming Chi University of Technology
0196	E-P-196	Development and Evaluation of a Durable Anticoagulant Coating on SLM-Fabricated Ti-6Al-4V for Vascular Applications	Ming-Ching Ho	National Taiwan Ocean University
0212	E-P-212	Functionalization of polymer surfaces by aerosol-assisted deposition using atmospheric plasma	Hua-Ting Hsieh	Institute of Science Tokyo
0237	E-P-237	Photocatalytic Antibacterial Application of Chlorophyll-Doped Carbon Quantum Dots	Yong-Yi Lo	Ming Chi University of Technology
0243	E-P-243	Preparation of Hydrogenated Titanium for Orthopedic Implant Application	Chihsiang Tang	National Taipei University of Technology
0254	E-P-254	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-P-283	Plasma- Assisted Fabrication and Modification of Organic Thin Films for Biosensor Applications	Pei Chen Wu	Tamkang University
0314	E-P-314	Design of Gold Nanoparticles (AuNPs) Embedded Organic Coatings Platforms for Biomedical Applications	Chen-Hung Chan	Tamkang University
0317	E-P-317	Electrochemical Fabrication of a Multifunctional PEDOT:PSS/Carbon Quantum Dot/g-C <sub>3</sub> N <sub>4</sub> Composite Coating for Light-Driven Antibacterial and Self-Cleaning Applications	Yu-Xiang Wang	Ming Chi University of Technology
0325	E-P-325	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-P-326	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

0327	E-P-327	Mechanical Strength and Osteogenic Potential for Medical Metals with Diamond-Like Carbon Surface Coating	Chang-Hung Huang	MacKay Memorial Hospital
0329	E-P-329	The Potential of Medical-Grade Titanium Surface Modification for Osseointegration: A Comparison Between Diamond-Like Carbon and Graphene Oxide Coatings	Chang-Hung Huang	MacKay Memorial Hospital
0331	E-P-331	Electrospun Chitosan/Zein Fibrous Membranes: Fabrication, Characterization, and Potential for Biomedical Applications	Ping Wei Ko	Tamkang University
0364	E-P-364	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
0375	E-P-375	Plasma-Assisted Growth of Graphene on Stainless Steel for Biofouling-Resistant Interfaces	I-Hsuan Li	Yuan Ze University
0389	E-P-389	Experiment of Skin Surface Coating Using Atmospheric Temperature Controllable Plasma	Masaya Tahara	Institute of Science Tokyo
0405	E-P-405	Enhancing Biocompatibility of Titanium Implant Surfaces Using an Extracellular Matrix-Mimicking Feature	Her-Hsiung Huang	National Yang Ming Chiao Tung University
0406	E-P-406	Nitrogen Plasma Immersion Ion Implantation Enhances Biocompatibility of Zr-based Bulk Metallic Glass Alloy in Dental Implant Applications	Her-Hsiung Huang	National Yang Ming Chiao Tung University
0409	E-P-409	Design with Functional Coatings by Controlled Surface Mobility in Magnetron Sputtering	Ju-Cheng Li	Ming Chi University of Technology.
0453	E-P-453	Plasma Electrolytic Oxidation of Cu and Pd Nanoparticles with MWCNT-Hydroxyapatite Composite Coatings on Ti-6Al-4V for Enhanced Dental Implants	Mahendran Logesh	Chosun University
0456	E-P-456	Nanostructured HAp/Zn/MWCNT Composite Coatings on Ti-6Al-4V via Plasma Electrolytic Oxidation for Multifunctional Dental Implants	Deepalakshmi Jayakumar	Chosun University
0485	E-P-485	Microfluidic device using metallic nanostructure arrays for the isolation, detection, and purification of exosomes	Guan-Wen Lai	National Taiwan University of Science and Technology
0486	E-P-486	Three-Dimensional Gold Nanowire-Based SERS Platforms for Monitoring Environmental Pollutants	Ding-Jia Yueh	National Taiwan University of Science and Technology
0501	E-P-501	Synthesis and characteristics of iron and zinc doped tricalcium phosphate	Yung-Hsuan Tsai	National Taipei University of Technology

0503	E-P-503	Hydroxyapatite coating with various morphology by the suspension thermal spray	Yi-Xuan Liao	National Taipei University of Technology
0507	E-P-507	Corrosion behavior and bone regeneration response of atmospheric plasma surface-treated dental titanium implants in betel nut mixture	Chih-Ling Huang	Taipei Medical University
0020	F-P-20	Microstructural Evolution and Hardness of WMoVTi Refractory High-Entropy Alloy Coatings Synthesized via Mechanical Alloying	Cheng-Hao Chung	National Dong Hwa University
0021	F-P-21	Synthesis and Performance of CoFeNiVMo HEA Coatings on Al6061 via Mechanical Alloying	Ting-Hao Chiu	National Dong Hwa University
0069	F-P-69	Analysis of High-Temperature Oxidation Behavior of AlTiN-Based Multilayer Coatings	Ching-Chieh Lin	National Formosa University
0114	F-P-114	Integrating Machine Learning and First-Principles Calculations to Explore Hydrogen Storage and Spillover on FeCoNiMnRu High-Entropy Alloy Surfaces	Hsuan-Ya Huang	National Cheng Kung University
0213	F-P-213	Electrocatalysis Performance Analysis of FeNi <sub>x</sub> MoWCu High Entropy Alloy Thin Films	Yen-Chin Lai	National Taipei University of Technology
0232	F-P-232	Mechanical properties evaluation of CrMoNbTiW high entropy alloy carbide thin films	Han-Chieh Chen	Ming Chi University of Technology
0252	F-P-252	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-P-288	Investigating properties of ball milled AlCrNb <sub>0.5</sub> SiTi High Entropy Alloy powders for thermal spraying	Yuan Deng	National Yang Ming Chiao Tung University
0302	F-P-302	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-P-316	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-P-319	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
0345	F-P-345	Tailoring the Microstructure and Mechanical Properties of TiZrNbTaMo High Entropy Alloys Films via Different Magnetron Sputtering Power Modes	Chia-Lin Li	Ming Chi University of Technology

0376	F-P-376	High-Performance Lithium-Ion Anodes Enabled by Sn-Containing High-Entropy Alloy Nanoparticles	L.Y. Hsiao	National Tsing Hua University
0447	F-P-447	Flexible High-Entropy Relaxor Ferroelectric for Sustainable Piezoelectric Sensors	Yu-En Pan	National Tsing Hua University
0473	F-P-473	High Entropy Oxide/Alloys: Tailoring separator coating for next-generation lithium sulfur batteries	Indah ayu Purwaningrum	National Cheng Kung University
0474	F-P-474	Harnessing Bimetallic Synergy of Iron-Cobalt Alloy for Photo-Fenton Oxidation	Jyh-Ming Ting	National Cheng Kung University
0476	F-P-476	Formation of Quasicrystalline Al–Co–Ni Thin Films: Influence of Elemental Stacking Sequence and Diffusion Pathways	Tzu-Chi Liu	National Taiwan University of Science and Technology
0015	G-P-15	Exceptional Adhesion Enhancement of Ag Electrodes on Glass and Polymer Substrates via Ultrathin SiOx interlayers	Jungheum Yun	Korea Institute of Materials Science
0025	G-P-25	Exploring segregant effects on heat-assisted FePt media and performing deep learning in microstructural image segmentation	Jun-Hao Weng	National Chung Hsing University
0072	G-P-72	Investigation of the Degradation Behavior of AlInGaP LEDs under Extreme Temperature Fluctuations with Material Characterization and AI-driven Protective Circuit Design	Chun-Yen Yang	National Chi Nan University
0111	G-P-111	Enhancement of anisotropic magnetoresistance for NiFe films with IrMn capping layer	Guan Wei Huang	National Chung Cheng University
0112	G-P-112	Ferroelectric properties of pulsed laser deposited Bi <sub>0.9</sub> Gd <sub>0.1</sub> FeO <sub>3</sub> films with laser wavelengths	Yu-Cheng Chang	Tunghai University
0151	G-P-151	Effect of Auxiliary Target Material and Process Parameters on Plasma Behavior of CrAl in Bipulse-HiPIMS Co-Sputtering under Ar/N <sub>2</sub> Atmosphere	Rui-Xu Zhang	National United University
0205	G-P-205	Optimization of Thermal Gas Flow Field Inside a Large-Scale Furnace	Hua-Lin Chen	National Center for Instrumentation Research, National Institutes of Applied Research
0310	G-P-310	Ab initio studies of work function changes and adsorption energy of CO <sub>2</sub> adsorption on SnO <sub>2</sub> (110) surfaces for gas sensors	Wen-Ding Wei	National Chung Hsing University
0328	G-P-328	Inverse Determination of Thin Film Parameters Using Deep Learning on Multi-Angle Ellipsometry at a Fixed Wavelength	Min Yan Chen	National United University

0380	G-P-380	Modeling study on the Atomic Layer Etching of Al <sub>2</sub> O <sub>3</sub> films using Hydrogen Fluoride and Trimethylaluminum	Chung-Yen Hsueh	Chung Yuan Christian University
0399	G-P-399	Machine Learning Modeling of the Relationship Between Process Parameters and Film Quality in WS <sub>2</sub> Chemical Vapor Deposition	Cheng-Chang Tsai	National Sun Yat-sen University
0400	G-P-400	Energy consumption and efficiency modeling and multi-objective optimization analysis of WS <sub>2</sub> chemical vapor deposition process based on machine learning.	Yu-Peng Huang	National Sun Yat-sen University
0414	G-P-414	Simulating the impact of various hole transport layers on CsPbI <sub>2</sub> Br perovskite solar cells under indoor low-light conditions using SCPAS-1D	Chih-Hsi Peng	National Changhua University of Education
0424	G-P-424	Mechanistic Insights into Ferroelectric Phase Stabilization of HZO on Nitrogen-Doped Amorphous Al <sub>2</sub> O <sub>3</sub> Interfacial Layer	Yuan-An Lin	National Tsing Hua University
0460	G-P-460	Controlling the preferred orientation of tetragonal ZrO <sub>2</sub> thin films via Nb <sub>2</sub> O <sub>5</sub> insertion to enhance the dielectric properties	Yujin Lim	Kyung Hee University