

Poster Paper List

Poster Presentation 1 (Session A+E)
10:30~12:00, October 19 (Thursday) (E-13 Lobby)
Session A + E

Poster No.	Paper No.	Title
A-P-001	1-1-004	Research on Foldable Photochromic Eyeglass Frames
A-P-002	1-1-006	Prediction and Analysis of Corner Cutting by Intelligent Wire Electrical Discharge Machining
A-P-003	1-1-009	Alignment System Combining Vision and Collaborative Mechanism
A-P-004	1-2-001	Heat dissipation analysis and research on off-grid solar container houses
A-P-005	1-3-004	Dual-Mode Stress and Strain Testing Platform for Tension and Bending
A-P-006	1-3-006	Development of an intelligent Arm Rehabilitation Equipment
A-P-007	1-3-012	A new developed micro PECM machine to achieve vertical axis nanopositioning control capability
A-P-008	1-4-002	Enhancing Monocrystalline Silicon Photovoltaic Module Quality Control with a Hybrid Deep Learning and Automated Optical Inspection System
A-P-009	1-4-003	Research on Control Strategy for Active Front Wheel Steering Assistance in Vehicles
A-P-010	1-4-005	The Design and Evaluation of PEM Fuel Cell for Mosquito Trap
A-P-011	1-5-002	Optimizing Sputtering and Laser Annealing Parameters to Enhance the Optoelectronic Performance of ITO/Ag/ITO Multilayer Electrodes
A-P-012	1-5-003	Preparation of La(OH) ₃ /RGO nanocomposites and its antibacterial application
A-P-013	1-5-004	Preparation of CeO ₂ /RGO/PEO nanofibers by electrospinning and their antibacterial activity
A-P-014	1-5-005	Influences of Nano-Dispersoids on Properties of W-Containing Refractory High Entropy Alloys
A-P-015	1-5-006	Exploration of the Structure, Optical Transmittance, Electrical Properties, and Wear Resistance of Titanium Nitride Thin Films by sputtering
A-P-016	1-5-007	Synthesis and Characterization of Gold Nanoparticles for Strain Measurement in Biomedical Applications

A-P-017	1-5-009	Nanostructural Tin Sulfide Coating Grown on Carbon Cloth by Electrochemical Deposition at Different Bath Temperatures
A-P-018	1-5-011	The impact of laser annealing on IZO thin films
A-P-019	1-5-012	SYNTHESIS AND CHARACTERIZATION OF CARBONIZED NANOMATERIALS BASED ON METAL-ORGANIC FRAMEWORK MIL-100(Co,Fe)
A-P-020	1-5-014	Study on Microstructures Formed by Hydrothermal Method at Different Reaction Times
A-P-021	5-9-001	Experimental and theoretical analysis of the actuation voltages of aqueous solutions on the single plate device
A-P-022	5-9-002	Parameter investigation on the minimum actuation voltage of electrowetting-on-dielectric on the coplanar microfluidic device
A-P-023	6-1-001	Applying Negative Ions and Air Curtain to Reduce Suspended Particles Caused by Dental Grinding Handpieces
A-P-024	6-1-002	Evaluation and comparison of the effectiveness of preliminary design ideas - taking a dust reduction device added-on a dental grinding handpiece as an example
A-P-025		Investigation of Micro Polishing on Complex Finishing Surfaces
A-P-026		A Motor Health Detector for Electric Vehicles
A-P-027		The development of an automatic investigation system based on machine vision and robotic arm
A-P-028		Biomechanical Analysis of Screw Configurations for Percutaneous Screw Fixation of Calcaneal Fractures
A-P-029		Highly sensitive AC magnetic characterization system for magnetic nanoparticles
E-P-001	5-3-002	A pilot study on sense of purpose and learning involvement for Mechanical Engineering students

Poster Presentation 2 (Session B)
13:30~14:30, October 19 (Thursday) (E-13 Lobby)
Session B

Poster No.	Paper No.	Title
B-P-001		Using Machine Learning to Predict Student Semester Performance System
B-P-002		Use Computer Vision to Teach Children About Numbers
B-P-003		A New Look on Parameter Estimation by using the Noise-subspace Projection

B-P-004		A Study on the User Terminal Device Cybersecurity for 5G Networks
B-P-005		Outcome-Based Education Case - Using the Design of an Intelligent Traffic Signal System as an Illustration
B-P-006	2-5-004	Competitive Genetic Algorithm for Large-scale Biological System Identification
B-P-007	2-5-005	Genetic Operations Enhancement for Biological Data Regression
B-P-008	2-7-002	Development of an Adaptive Intelligent Traffic Light Control System Through Traffic Flow Monitoring
B-P-009	2-7-003	A Smart Parking Management System with Integrates IoT Devices and Chatbot
B-P-010	2-7-004	The Taiwan Marine Environment Monitoring Service (TwMEMS)
B-P-011	2-7-005	An Implementation of the 3D Indoor Scene Reconstruction for Point Cloud Data Using Open3D Library
B-P-012		The Improvement Effects for Infrared Temperature Sensor Measured Outdoors Using an Analog Sensor Module
B-P-013		MSM Ga ₂ O ₃ Deep Ultraviolet Photodetectors on Sapphire Substrates with Different Annealing Temperatures by RF Sputtering
B-P-014		A Case Study of Portable Theremin Electronic Sound Generator
B-P-015		Telephony and VoIP Interconnection Systems
B-P-016		Wi-Fi 7 5GHz/6GHz Band 2 x 1 Printed Fractal Patch Array with a Band-stop FSS
B-P-017		Development and Application of Small Theremin Electroacoustic Models in Interdisciplinary Practical Courses
B-P-018		A study of Grown BiSrCaCuO thin films on silicon substrate
B-P-019		The Piezoelectric, Dielectric, and Vibration Properties for the Lead-Free Piezoelectrics/Polymer Composite Sheets
B-P-020		The preliminary study on a system using AIOT technology to cultivate algae in household wastewater
B-P-021		PTAT Circuit Design for Reference Temperature in Thermopile Sensors
B-P-022	2-2-004	Precision Distance Measurement Embedded Technology and Implementation for Microwave Energy Transmission Systems
B-P-024	2-3-001	Annealing Temperature Effect on the micro-structure of SrBi ₄ Ti ₄ O ₁₅ thin film RRAM devices by sol-gel method
B-P-025	2-3-002	Annealing Effect on Electrical Properties of SiC Thin films RRAM Devices Prepared by RF Magnetron Sputtering Method

B-P-026	2-3-003	Biomass wastes derived hierarchical porous carbons used for high-performance supercapacitors
B-P-027	2-4-001	Smart Water Meter Monitoring Systems

Poster Presentation 3 (Session C)
14:30~16:00, October 19 (Thursday) (E-13 Lobby)
Session C

Poster No.	Paper No.	Title
C-P-001		Preparation and Characterisation of SiC Thin Film Deposited Using RF Sputtering
C-P-002		Fabrication of Low-Nickel Tin Films via E-beam Evaporation
C-P-003		The Study of Cs _{0.33} WO ₃ Film Characteristics at Different Annealing Temperatures
C-P-004		Study of Carbon-Based Materials for Solar Steam Generation
C-P-005		Vision Simulation of Human Eye with Various Amounts of Accommodation
C-P-006		Simulation Study of a 250-GHz Medium-power Gyrotron Traveling-wave
C-P-007		Optimization of Optical Design for an Infrared Thermometer Based on Light Ray Grouping Methodology
C-P-008	5-2-001	Simulation and Experiment Study for a 2.45-GHz Microwave Heating Cavity System
C-P-009	5-5-002	PIC Simulation Study for a 35-GHz gyrotron Traveling-Wave Amplifier Experiment
C-P-010	3-6-004	Photodetectors Fabricated on Si Substrates with Enhanced Ultra-violet Photoresponse
C-P-011	3-6-002	A Study of Optical Response of BiSrCaCuO Thin Films
C-P-012	3-6-006	Birefringent Polymer Sensor for UV Glue Curing Monitoring
C-P-013	3-6-005	Anti-Resonance Fiber Fabry-Perot Interferometer Based on Reflecting Guidance Liquid Core Fiber
C-P-014	3-6-003	A Liquid-Core Fiber Mach-Zehnder Interferometer with Dual-opening Channel by a Side-Polished Hollow Core Fiber
C-P-015	3-6-001	Light Pressure Measurement based on a Dynamic Micro-Air Bubble in a Hollow Core Fiber
C-P-016	3-6-008	Compact Wavelength Demultiplexers Based on a Rectangular Nanoring Resonator
C-P-017	3-5-007	Temperature Characteristics of Indium Tin Oxide Thin Film Gas Sensors Prepared by RF Sputtering
C-P-018	3-5-003	Microwave Hydrothermal Synthesis Preparation of MnFe ₂ O ₄ /rGO Nanocomposite and its Application in supercapacitor Electrodes

C-P-019	3-5-006	Implementation of Integrated Photocapacitors for Energy-Conversion/Storage and Optical-Sensing Applications
C-P-020	3-5-002	Heating Properties and Metallic Properties of Aluminum-Chromium Composite Metal Micro Heaters under Extension and Bending
C-P-021	3-1-001	Transmission Mechanism Overview of Wireless Power Transfer Systems
C-P-022	3-1-002	AI-based Regression Curve Training for Maximum Power Point Estimation and Tracking in Solar Power Generation Systems
C-P-023	3-1-003	Construction of a Solar Power Generation System for Maximum Power Estimation and Tracking Using Python Optimization Algorithms
C-P-024	3-1-004	Research and Development on Maximizing the Mileage of Electric Vehicles Supplemented by Operating Energy Feedback
C-P-025	3-1-005	Research on Current Sharing Control of Multi-phase interleaved LLC Converters
C-P-026	3-1-006	Design a Series-Parallel LLC Converter Considering Current Sharing Characteristics
C-P-027		A Compact Coil Coupler for a Wireless Power Transfer High-Power Long-Distance Transmission Application
C-P-028		Transformer Capacity Analysis of Mass Rapid Transit Main Substations
C-P-029		Simulated a Novel Structure of ZVS and ZCS Buck Converter with Coupled Inductor
C-P-030	3-2-001	Wi-Fi-based indoor positioning of automatic pitching machine
C-P-031	3-2-002	Application of Highly Stable Infrared Sensing Device in Electric Vehicle System
C-P-032	3-2-003	Application of an All-Digital Compensation Control Method for Enhanced Wireless Power Transmission and Power Conversion
C-P-033	3-2-006	Application of Intelligent Process Automation Control Technology in Warehouse Management for Manufacturing Plants
C-P-034	3-2-008	Combining the INSTANT-NGP Algorithm with Autonomous Drones
C-P-035		Development of a Smart Decision-Making Platform for Interactive Power Transmission Regulation Systems in Electric-Assist Bicycle Sharing Systems
C-P-036		Silicon Carbide Photodetectors Fabricated on Si Substrates for High-Temperature Applications
C-P-037		Study on Doping Ag into Fe ₂ O ₃ Thin Films Using a Radiofrequency Co-Sputtering System for Application in Resistive Switching Random Access Memory
C-P-038	3-3-001	Tai Chi System: Motion Assessment and Feedback with Cameras and Smart Glasses
C-P-039	3-3-002	Design of Physical Fitness Games at Home Using Posture Detecting Technology
C-P-040	3-3-004	Proposed Physiological Pathway Assessor of Vascular Disease Phenotype: A Preliminary Prototype Study on Handgrip Strength
C-P-041		EMG of Masticatory Muscle at Different Posture
C-P-042		Evaluation of electrocardiogram disease classification model based on CSP combined with Transform
C-P-043		Convolutional Transformer for Brain-Computer Interface
C-P-044		Design of a Serious Game for Cognitive Function Assessment Evaluation Using Verbal Communication
C-P-045		A Pilot Study on Investigating the Feasibility of Muscle Performance Using Electromyography and Body Composition

		Analysis
C-P-046	3-4-001	Reduced Graphene Oxide/Nickel Composites as a Buffer Layer on PEDOT:PSS Hole Transport Layer for Perovskite Solar Cells
C-P-047	3-4-002	A Study on Doping Different Ratios of Bathocuproine in the PCBM Electron Transport Layer of Perovskite Solar Cells
C-P-048	3-4-003	Research on the Application of Iron Oxide and Graphene Composite Materials in the Counter Electrode of Dye-Sensitized Solar Cells
C-P-049	3-4-004	Investigation of Zinc Complex/Graphene Oxide Nanocomposite Materials for Counter Electrodes in Dye-Sensitized Solar Cells
C-P-050	3-4-005	A Study on the Incorporation of Tin Dioxide Nanoparticles into the Titanium Dioxide Working Electrode of Dye-Sensitized Solar Cells
C-P-051	3-4-007	Efficient all-vanadium redox flow battery based on graphite felt electrodes with a nanoporous surface
C-P-052	3-4-008	Effect of Rayon-based Carbon Felt Electrode Compression on Properties of Vanadium Redox Flow Batteries
C-P-053		Morphology-tunable synthesis of MnO ₂ /NF Composite Electrode and its Electrochemical Performance for Supercapacitors
C-P-054	3-4-010	Carbon felt modified with SnO ₂ coating by successive ionic layer adsorption and reaction method as electrodes for vanadium redox flow batteries

Poster Presentation 4 (Session D)
16:30~18:00, October 19 (Thursday) (E-13 Lobby)
Session D

Poster No.	Paper No.	Title
D-P-002	4-1-004	EPS Biofilm for Corrosion Resistance in Steel Plates
D-P-003	4-1-005	Research on the preparation of acrylic monomers and polymers using cycloaddition reaction of carbon dioxide and glycidyl methacrylate
D-P-004	4-2-001	Synthesized of Metal–Organic Frameworks (MOFs)-MIL-100(Fe) and Applied on Alkanes Separation Process
D-P-005	4-2-002	Structural characterization and antibacterial properties of CuFe ₂ O ₄ -rGO nanocomposites
D-P-006	4-2-003	Revealing the Mechanism of Transition Metal Oxides as Peroxidase Mimetics: Implications for Nanozyme Design and Catalase-Like Functionality
D-P-007	4-2-004	Preparation and antibacterial activity of nickel-iron oxide/graphene nanocomposites against Escherichia coli
D-P-008	4-2-005	Synthesis and Application of a Pebax/Ionic Liquid/Graphene Oxide Composite Membrane Coating on PSF Hollow Fiber for Enhanced CO ₂ /CH ₄ Separation
D-P-009	4-2-007	Synthesis and Optical Properties of Eu ²⁺ -doped Silicocarnotite Nanoparticles by Pulsed Laser Ablation in Water
D-P-010	4-2-008	Synthesis and Photoelectrochemical Properties of Rocksalt-type TiO _x Thin Film by Pulsed Laser Deposition
D-P-011	4-2-010	Study on the growth of SiC nanowire networks on

		amorphous silicon dioxide substrate by carbothermal reduction from agricultural waste rice straws
D-P-012	4-2-011	Synthesis and Luminescence Properties of $\text{Ca}_5(\text{PO}_4)_3\text{SiO}_2:\text{Gd}^{3+}$ Phosphors by Solid State Sintering
D-P-013	4-2-013	Enhancing Surface Morphology using Methoxylated Functionalized Triarylamine-Based Hole-Transporting Polymers for Stable Perovskite Solar Cells
D-P-015	4-3-002	A Numerical Study on Resin Infusion in VARTM
D-P-016	4-3-003	Ultra-High Molecular Weight Polyethylene (UHMWPE) Swelling Effect and Investigation
D-P-017	4-3-004	An Innovative Catalyst Preparation of Layered Double Hydroxide Compounds with Bactericidal Applications
D-P-018	4-3-005	The Study on New Type Polybenzimidazole Copolymer Membranes
D-P-019	4-3-006	Evaluation of biodegradable polyvinyl alcohol hydrogels as soft contact lens materials
D-P-020	4-3-007	HDPE/PET material side by side composite fiber technology and development
D-P-021	4-3-008	Synthesis of Polyaniline/Cellulose Paper and Application for a Humidity Sensor
D-P-022	4-3-009	Synthesis of Sulfobetaine Siloxane Oligomers via Sol-Gel Method and Formation of Transparent Films with Anti-biofouling, Antibacterial, and High Hardness Properties through Moisture Curing
D-P-023	4-3-010	Composite Nanostructures of Fluorescent Carbon Quantum Dots on Thermoshrink Film for High Sensitivity Sensing and Signal Enhancement
D-P-024		Preparation of Low-Carbon-Footprint Monomer from CO_2 and Acrylate
D-P-025		Dimensionality Reduction and Clustering Analysis of Infrared Spectra Using Uniform Manifold Approximation and Projection (UMAP)
D-P-026		Low-temperature solid oxide fuel cells with LNCA-SDC composite electrolyte
D-P-027		Preparation and properties of graphite nanosheet/recyclable resin composite
D-P-028		Research on the Application of Conductive Fabrics in Humidity Sensing
D-P-029		The Constituents from the Peels of Fruit of Citrus kotokan Hayata
D-P-030		The ethanol extract of rice bran suppresses the mast cells-mediated hypersensitivity type I reaction through the inhibition of PLC γ /IP3R/PKC μ signaling pathway
D-P-031		Studies on Tissue Culture of <i>Aeonium aureum</i>
D-P-032	4-4-001	Development of Recombinant Enzyme Purification and Recovery System Utilizing Chitin as the Immobilization Matrix
D-P-033	4-6-001	Antibacterial Capability of SA/CA-Ag Biomimetic

		Skin Membrane Patch
D-P-034	4-6-002	Development of a High Throughput Microfluidic Separator for Eliminating Large Microparticles
D-P-035	4-6-004	An Integrated Perm-Selective Membranes Utilizing Electrochemical and Optical Detection for Rapid Nucleic Acid Diagnosis
D-P-036	4-7-001	Study on the development of biodegradable film consist of carrageenan and gelatin incorporating with the extracts from Premna microphylla Turcz leaf
D-P-037	4-2-012	Synthesis and Characteristion of Sodium Doped Fe _{1.1} Mn _{1.9} O ₄ Nanoparticualars
D-P-038	4-3-011	Analysis of characteristics of anodized film prepared on 6061 aluminum alloy using alkaline solution