

ICFPE 2024 Poster List

Poster Presentation Number	Paper No.	Presenter	Paper Title
PB-05	0004	Hsueh-Sheng Tseng	Additive Blending Effects on PEDOT:PSS Composite Films for Wearable Organic Electrochemical Transistors
PD-01	0007	Taichi Takahashi	Synthesis of naphthalene-dimide-based polymers incorporating thianthrene units targeting stretchable n-type organic thin-film transistor materials
PD-02	0008	Tatsuma Fujita	Precise Synthesis of Polythiophene Derivatives with Phenyl Groups at the End of Side Chains for Thermoelectric Conversion Materials
PD-03	0009	Teruma Mikata	Synthesis of Semiconducting Polymers with Arylene Sulfide Spacers Targeting Stretchable Organic Photovoltaics
PE-06	0012	李杰勰	Integrated Blue Energy Power for Seawater Electrolysis to Produce Hydrogen
PE-07	0019	Hou-Chin Cha	Development of the encapsulation design to improve durability for semi-transparent organic photovoltaic modules
PB-06	0023	Sin-Rong Huang	Enhancing the Performance of Photo-patternable Organic Electrochemical Transistors via Photocrosslinking Hydrophilic Side Chains
PE-13	0024	Yu-Tang Hsiao	Bulk-Heterojunction Organic Photodetectors and Photovoltaics: Achieving Robust Thermal Stability for Industrial Applications
PB-01	0025	Il-Ji Bae	Fabrication of OLED devices with a Luminance Change Rate of Less than 5% Using High Hardness Overcoat Materials of 4H or higher for Next-generation Display
PE-08	0031	Kun-Mu Lee	Efficient Perovskite Solar Cells with Dopant-Free HTM by Thermal-Assisted Blade-Coating Method
PD-04	0033	Lien-Chiang Hung	Nano-deposited conductive elastic fiber sensor applied in medical and health-care IOT application
PB-17	0036	柯信豪	Photocrosslinkable and Photo-programmable Logic Gate
PB-07	0037	Liang-Yu Hsu	A Wearable Piezoelectric Patch Sensor for Gait Analysis
PC-05	0044	Cheng-Han Wang	Chip Level Sub-millimeter Refractor Packaging with Edge Emitting Laser
PB-08	0045	Tzu-Ming Huang	A Piezoelectric Patch Sensor for Swallowing Sensing
PD-05	0049	Seungyeon Kim	Ultrasonic-Assisted Assembly of 2D Metal Nanosheets toward Conductive thin films and 3D Heater Applications
PD-06	0054	Juyoung Jin	Resistive switching charactersitics of solution processible, low temperature binary metal halide thinfilm for memristor applications
PD-07	0055	Dae-Hong Kim	Hierarchical Porous-structured Single Crystalline Metal Nanosheets for Single Electrode Triboelectric Nanogenerators
PD-08	0056	Young-Seok Song	Implementation of Multi-Dimensional Metallic Nano Materials-Based Porous Electrodes for Vertical Thin Film Transistors
PD-09	0057	Minyoung Seo	Enhanced Electromagnetic Interference Shielding Properties of 2D Copper/Copper Oxide Core-Shell Nanosheets Film
PD-10	0058	Hyeonji Joo	Modulation of Electrical properties of IGZO Thin-Film Transistors via Two-Dimensional Metal Nanosheets into the Semiconducting Channel
PC-01	0062	Chia-Feng Li	Blade-coated two-step perovskite solar cells via rapid heat method in air
PD-11	0068	Riku Murakami	Synthesis of Semiconducting Block Copolymers with Self-healability
PD-12	0075	Hideya Watanabe	Synthesis of Semiconducting Block Copolymers Focusing on Their Sequence and Branched Structures
PC-02	0076	Chien-Te Tsou	Air-stable perovskite solar cell with an air-processable two-step active layer
PB-09	0079	Hung-Hsien Ko	Non-contact ECG Sensors Using Flexible Printed Electrodes
PD-13	0088	Supakorn Suwanphiphat	Natural Rubber/Chitosan/Graphene Composites for Flexible Electronic Applications
PD-14	0089	Takanori Fukuchi	Development of High Refractive Index Semi-aromatic Polythioethers with Dithiane and Triazine Units

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Poster Presentation Number	Paper No.	Presenter	Paper Title
PB-21	0090	Ning-Cian Hsiao	Artificial Tactile Synapses Based on Triboelectric Nanogenerators for Health Monitoring
PB-18	0093	YEN-TZU SHIH	Conductive Circuits Design for Stretchable Electronic Textiles
PC-03	0094	Ching-Tai Kuo	All Bio-Based Material for 3D Printing Applications
PD-15	0098	Yun-Hsuan Lin	Liquid Metal Colloidal Ink for Multi-Layer Flexible Electronics
PB-19	0100	Qun-Gao Chen	Stretchable High-k Hybrid Nanocomposite Dielectric Based on Thiol-ene Chemistry
PB-22	0101	Rou-Yi Li	Electrolyte-Gated Organic Field-Effect Transistor with Artificial Synapse Behavior Applied for Deep Neural Network Training
PE-01	0102	Mei-Wan Chung	Molecular Design of Ion-Conductive Polymer Binders through π - π Interaction for Ternary Cathode Materials in Lithium-ion Batteries
PC-06	0105	戴廷倩	Development of 3D Printed Conductive Structures Using Photocurable Resin
PB-10	0107	Pei-Xuan Hong	Hydrochar Carbon Modified Electrodes for Simultaneous Detection of Glucose and Lactate
PD-16	0110	胡品揚	Solderable Conductive Paste for Electronic Textiles
PB-24	0111	Guan-Lin Wu	Modulation of the Conformation, Segment Compatibility, and Coplanarity Conjugated Polymers by Aldol Condensation for Efficient Ambipolar Organic Field-Effect Transistors
PD-17	0117	Wei-Lun, Chen	Stretchable Thermally Conductive PDMS Composite for Flexible Substrates
PE-09	0120	Yao-Wei Huang	Dual-Band FPC Antenna for RF Energy Harvesting Application
PB-11	0121	Yu-Chi Chang	Development of AuNPs-MXene/graphene nanocomposite modified flexible electrochemical sensors for CA19-9 detection
PE-02	0123	Hao-Wei, Yu	Diketopyrrolopyrrole-Dioxo-Benzodithiophene-Based Multi-Functional Conjugated Polymers for Organic Field Effect Transistors and Perovskite Solar Cells
PD-18	0128	Chi-Jan Fang	Liquid Metal Soldering Composite with Ultra-low Reflow Temperature for Surface-mount Technology of Flexible Printed Circuit Board
PD-19	0129	Chia-Hsun Nieh	High Performance 2D Tin-based Perovskite Field-Effect Transistor with Porphyrin Like Additive Engineering
PA-01	0130	ZHI-XIAN YAN	Large-area, deformable, and stretchable multiplexing self-powered triboelectric skins
PB-02	0132	Yu-Hsiang Teng	High Performance Hole-Transporting-Layer-Free Perovskite Light-Emitting Diodes by Incorporating Self-Assembled Molecules
PB-12	0133	Po-Kuan, Li	Rapid Sweat Collection for Real-Time Hydration Monitoring
PA-02	0134	Wei-Chen Peng	Breathable and Stretchable Multifunctional Triboelectric Liquid-Metal E-Skin for Recovering Electromagnetic Pollution, Extracting Biomechanical Energy, and as Whole-Body Epidermal Self-Powered Sensors
PB-25	0135	汪廷宇	Fluoranthene Imide Dimers with Strong Isomeric Effect on the Charge Transport Properties
PD-20	0136	Tien-Yu Ko	Filling the gap between topological insulator nanomaterials and triboelectric nanogenerators
PD-21	0140	Chia-Ching Huang	Screen-printed Composite Material for Stretchable Conductive Electronics on Textiles
PB-03	0141	Moon-Ki Jeong	Open-shell conjugated polymer for NIR organic photodetector
PE-10	0142	Jian-Xun Chen	Polymer-Assisted Dispersion of rGO in Electrospun PVDF Nanofibers with High-Performance Piezoelectricity for Monitoring Human Body Movement
PD-22	0143	Shao-Ming Cheng	The Impact of Surface Modification on the Performance of AgNWs/Rubber Conductive Composites for Highly Conductive Stretchable Electrodes

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Poster Presentation Number	Paper No.	Presenter	Paper Title
PD-23	0145	Jia-Wun Li	Flexible Hybrid Electronic Materials with Excellent Stretchability and Highly Stable Electrical Conductivity for ECG and EMG Smart Clothing
PB-20	0147	Jui-Hsin Wang	Polymer-Assisted Dispersion of Boron Nitride/Graphene in a Thermoplastic Polyurethane Nanohybrid Films with High Thermal Conductivity, Stretchability, and Washability for Adjustable-Cooling Smart Clothes
PB-04	0148	李品儀	Stable and Stretchable CsPbX ₃ (X = Cl, Br, I) Nanocrystal/Polymer Hybrid Films for Light-Emitting Diodes
PC-04	0151	Sagar Shrestha	Sustainable high throughput foundry for fabricating flexible processors as a Key Component of Edge Computing
PB-14	0156	Trung Hoang	Sustainable roll-to-roll manufacturing of PDMS-based centrifugal microfluidic device for rapid on-chip RNA purification from whole blood
PD-24	0158	Hsiang-Yu Chou	Ultra-Thin and Flexible Pulse Sensors Based on Eco-Friendly Graphene
PE-03	0160	Ching, Tseng	Synthesis and Electrochemistry Properties of Zwitterionic Cross-linked Core-shell Block Copolymers Blended in Solid-state Electrolyte
PB-23	0162	Chih-Ying Lin	Thin Film Fabrication of Silver-contained Metal Organic Framework and Its Application in Transistor-type-Memory
PE-04	0163	Tao-Jyun Hsu	Electrospun Zwitterionic-functionalized Solid-state Polymer Electrolytes in Lithium-ion Batteries
PE-05	0164	Zhao-Yi Lee	Preparation of Zwitterionic-modified Ceramic Fillers for Solid-state Polymer Electrolytes
PD-25	0165	宋佳芸	Epitaxial growth of silver nanocrystals interlayer within muscovite two-dimensional structures
PD-26	0166	Chih-Wei Chiu	Highly Sensitive, Stretchable, Perspiration-Resistant, Self-Healing of Flexible Hybrid Electronic Nanofiber Electrodes for Electrocardiography and Electromyography Monitoring
PD-27	0167	Wen Yu	Flexible electrothermal films based on carbon black/Ag nanowires/graphene composites for electrothermal applications
PD-28	0168	陳羿玟	Development of Ferrocene/quantum Dot Supramolecules in Phototransistor Memory
PD-29	0169	Ching-Ming Su	PVDF-Muscovite bimorph system as flexible transparent thermal sensor
PE-11	0171	Yu-Tin, Lin	Utilization of Worm Oil to Form Low-Carbon Nanoemulsions
PE-12	0175	Shih-Min Huang	An Environmental Friendly Healthcare Sensor Design Based on Lead-Free Perovskites
PD-30	0180	Min-Seok Jeon	High Dk and Low Df Press-Sensitive Adhesives for Flexible Multi-layer Antennas
PB-15	0185	Ali Solgi	Integrated Top-Gate Organic Electrochemical Transistor: A Scalable Approach for Fast and Efficient Operation
PD-31	0186	黃毓鈞	Conjugated Block Copolymers with Nano-cracked Gold for Stretchable Field-Effect Transistors
PB-16	0189	Hongki Kang	Shear Force Driven High-Throughput Fabrication of Low-Density Carbon Nanotube Bio-FET Arrays for Highly-Sensitive Biosensing
PD-32	0191	Mei-Nung Chen	Exploring Soft-Segment Architectures of Polyfluorene-based Block Copolymers to Enhance Selective Dispersion and Stability in Sorting Semiconducting SWCNTs
PD-33	0192	Il-Ji Bae	Developement of a Electromagnetic Shielding Composite Material Based on MXene with Electomagnetic Shielding Effectiveness of -33dB or Higher
PC-07	0195	Amr Osman	Sacrificial 3D Printing to Fabricate MXene-Based Wearable Sensors with Tunable Performance