



Poster Award

# Poster Topic: Applications/ Devices



<b>PB-07</b>	<b>Liang-Yu Hsu</b>	A Wearable Piezoelectric Patch Sensor for Gait Analysis
<b>PB-14</b>	<b>Trung Hoang</b>	Sustainable roll-to-roll manufacturing of PDMS-based centrifugal microfluidic device for rapid on-chip RNA purification from whole blood



<b>PB-05</b>	<b>Hsueh-Sheng Tseng</b>	Additive Blending Effects on PEDOT:PSS Composite Films for Wearable Organic Electrochemical Transistors
<b>PB-10</b>	<b>Pei-Xuan Hong</b>	Hydrochar Carbon Modified Electrodes for Simultaneous Detection of Glucose and Lactate
<b>PB-22</b>	<b>Rou-Yi Li</b>	Electrolyte-Gated Organic Field-Effect Transistor with Artificial Synapse Behavior Applied for Deep Neural Network Training



<b>PA-01</b>	<b>ZHI-XIAN YAN</b>	Large-area, deformable, and stretchable multiplexing self-powered triboelectric skins
<b>PA-02</b>	<b>Wei-Chen Peng</b>	Breathable and Stretchable Multifunctional Triboelectric Liquid-Metal E-Skin for Recovering Electromagnetic Pollution, Extracting Biomechanical Energy, and as Whole-Body Epidermal Self-Powered Sensors
<b>PB-19</b>	<b>Qun-Gao Chen</b>	Stretchable High-k Hybrid Nanocomposite Dielectric Based on Thiol-ene Chemistry
<b>PB-20</b>	<b>Jui-Hsin Wang</b>	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
<b>PB-21</b>	<b>Ning-Cian Hsiao</b>	Artificial Tactile Synapses Based on Triboelectric Nanogenerators for Health Monitoring

# Poster Topic: Process & Equipment



**PC-07 Amr Osman**

Sacrificial 3D Printing to Fabricate MXene-Based Wearable Sensors with Tunable Performance



**PC-06 Wen-Chien Tai**

Development of 3D Printed Conductive Structures Using Photocurable Resin



**PC-01 Chia-Feng Li**

Blade-coated two-step perovskite solar cells via rapid heat method in air

**PC-04 Sagar Shrestha**

Sustainable high throughput foundry for fabricating flexible processors as a Key Component of Edge Computing

# Poster Topic: Materials



<b>PD-11</b>	<b>Riku Murakami</b>	Synthesis of Semiconducting Block Copolymers with Self-healability
<b>PD-29</b>	<b>Ching-Ming Su</b>	PVDF-Muscovite bimorph system as flexible transparent thermal sensor



<b>PD-09</b>	<b>Minyoung Seo</b>	Enhanced Electromagnetic Interference Shielding Properties of 2D Copper/Copper Oxide Core-Shell Nanosheets Film
<b>PD-10</b>	<b>Hyeonji Joo</b>	Modulation of Electrical properties of IGZO Thin-Film Transistors via Two-Dimensional Metal Nanosheets into the Semiconducting Channel
<b>PD-18</b>	<b>Chi-Jan Fang</b>	Liquid Metal Soldering Composite with Ultra-low Reflow Temperature for Surface-mount Technology of Flexible Printed Circuit Board
<b>PD-20</b>	<b>Tien-Yu Ko</b>	Filling the gap between topological insulator nanomaterials and triboelectric nanogenerators
<b>PD-23</b>	<b>Jia-Wun Li</b>	Flexible Hybrid Electronic Materials with Excellent Stretchability and Highly Stable Electrical Conductivity for ECG and EMG Smart Clothing
<b>PD-31</b>	<b>Yu-Chun Huang</b>	Conjugated Block Copolymers with Nano-cracked Gold for Stretchable Field-Effect Transistors
<b>PD-32</b>	<b>Mei-Nung Chen</b>	Exploring Soft-Segment Architectures of Polyfluorene-based Block Copolymers to Enhance Selective Dispersion and Stability in Sorting Semiconducting SWCNTs



<b>PD-13</b>	<b>Supakorn Suwanphiphat</b>	Natural Rubber/Chitosan/Graphene Composites for Flexible Electronic Applications
<b>PD-15</b>	<b>Yun-Hsuan Lin</b>	Liquid Metal Colloidal Ink for Multi-Layer Flexible Electronics
<b>PD-16</b>	<b>Pin-Yang Hu</b>	Solderable Conductive Paste for Electronic Textiles
<b>PD-17</b>	<b>Wei-Lun Chen</b>	Stretchable Thermally Conductive PDMS Composite for Flexible Substrates
<b>PD-19</b>	<b>Chia-Hsun Nieh</b>	High Performance 2D Tin-based Perovskite Field-Effect Transistor with Porphyrin Like Additive Engineering
<b>PD-22</b>	<b>Shao-Ming Cheng</b>	The Impact of Surface Modification on the Performance of AgNWs/Rubber Conductive Composites for Highly Conductive Stretchable Electrodes

# Poster Topic: Energy



<b>PE-09</b>	<b>Yao-Wei Huang</b>	Dual-Band FPC Antenna for RF Energy Harvesting Application
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<b>PE-01</b>	<b>Mei-Wan Chung</b>	Molecular Design of Ion-Conductive Polymer Binders through $\pi$ - $\pi$ Interaction for Ternary Cathode Materials in Lithium-ion Batteries
<b>PE-03</b>	<b>Ching Tseng</b>	Synthesis and Electrochemistry Properties of Zwitterionic Cross-linked Core-shell Block Copolymers Blended in Solid-state Electrolyte



<b>PE-04</b>	<b>Tao-Jyun Hsu</b>	Electrospun Zwitterionic-functionalized Solid-state Polymer Electrolytes in Lithium-ion Batteries
<b>PE-07</b>	<b>Hou-Chin Cha</b>	Development of the encapsulation design to improve durability for semi-transparent organic photovoltaic modules
<b>PE-10</b>	<b>Jian-Xun Chen</b>	Polymer-Assisted Dispersion of rGO in Electrospun PVDF Nanofibers with High-Performance Piezoelectricity for Monitoring Human Body Movement
<b>PE-12</b>	<b>Shih-Min Huang</b>	An Environmental Friendly Healthcare Sensor Design Based on Lead-Free Perovskites