

## POSTER PRESENTATION

Paper ID	Paper Title	Presenter / Affiliation
P02	Interpretable machine-learning for predicting power conversion efficiency of non-halogenated green solvent-processed organic solar cells based on Hansen solubility parameters and molecular weights of polymers	Min-Hsuan Lee National Yang Ming Chiao Tung University, Taiwan
P03	Operational Stability and Built-in Potential in Nonfullerene Organic Solar Cells	Jiayin Han Hong Kong Baptist University, Hong Kong
P04	Visible-Blind Near-Infrared Organic Photodetectors	Zhuangmiao Wang Hong Kong Baptist University, Hong Kong
P05	Broadband/Narrowband Dual-Band Near-Infrared Organic Photodetectors	Yu Tang Hong Kong Baptist University, Hong Kong
P07	Achieving over 20% EQE in RGB PhOLEDs with a Versatile Exciplex-Forming Co-host	Yu-Cheng Kung National Taiwan Ocean University, Taiwan
P08	Triplet tank layer modulates triplet-triplet fusion to fluorescence in blue organic light-emitting diode	Yu-Lin Lin National Cheng Kung University, Taiwan
P09	Improving Perovskite Solar Cell Performance using a Two-Step Deposition Technique with Cesium Halides in Pbl <sub>2</sub> Precursor	Wei-Hao Chiu Chang Gung University, Taiwan
P10	Fluorinated Pentafulvalene-Infused Hole-Transporting Material Elevates Perovskite Solar Cell Efficiency Over 23%	Kun-Mu Lee Chang Gung University, Taiwan
P11	Photoluminescence Enhancement of Quantum Dots Using Gold Nanoparticle-Decorated Graphene Oxides: Unveiling Plasmonic Effects and Real-World Applications	Gautham Kumar National Yang Ming Chiao Tung University, Taiwan
P12	Highly Stable Vacuum-Deposited Perovskite Solar Cells	Kuan-Hung Chen National Taiwan University of Science and Technology, Taiwan
P13	Investigating the insight dynamics of polymer-based top-emissive microcavity light-emitting diodes using the magnetic field effect	Anas Mujahid National Cheng Kung University, Taiwan
P14	Near Infrared Single Photon Emission from MAPbI <sub>3</sub> Quantum Dots	Yung-Tang Chuang National Tsing Hua University, Taiwan
P15	Highly Efficient Manganese(II) complex and its Application in Vacuum-Deposited Light Emitting Diodes	Guang Hsun Tan National Tsing Hua University, Taiwan
P16	The Effect of Cs Doping and Moisture-Assisted Post-Annealing on Perovskite Solar Cell	Cheng-Yueh, Chen National Tsing Hua University, Taiwan
P17	Enhancing Uniformity and Stability of Transparent Conducting Graphene Electrodes through Dual-Side Doping	Sukang Bae Korea Institute of Science and Technology, Korea

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P18	Morphological effects on the performance of broadband organic photomultiplication photodetectors containing selenium substituted non-fullerene acceptors	Gajendra Suthar National Yang Ming Chiao Tung University, Taiwan
P19	Direct Synthesis of MoS <sub>2</sub> -Based Sensor Arrays on Stretchable Substrates using Selective Laser Heat Treatment	Seoung-Ki Lee Pusan National University, Korea
P20	Elevating the Efficiency of Red Phosphorescent OLEDs with Donor-Acceptor-Donor Host Systems	Yi-Ting Chen Yuan Ze University, Taiwan
P21	Star-shaped carbazole-based molecules for efficient OLEDs	Ya-Hsin Cheng Yuan Ze University, Taiwan
P22	Utilizing hole-transporting materials of bicarbazole structures to achieve efficient green phosphorescent OLEDs	Jia-Fan Wu Yuan Ze University, Taiwan
P23	Using localized surface plasmon resonance for realizing near-infrared OLEDs	Pin-Yin Huang Yuan Ze University, Taiwan
P24	Luminescent Carbene-Metal-Amides: Highly Efficient TADF Emission And OLED Applications	Chi-Hao Huang Yuan Ze University, Taiwan
P25	Advancing the brightness levels of tandem white organic light-emitting diodes with specific device architectures	Fong-Yu Yang Yuan Ze University, Taiwan
P26	Designing an efficient charge generation layer to enhance the performance of red tandem OLEDs	Yu-Chieh Chang Yuan Ze University, Taiwan
P27	Nature of Non-Emissive Electroluminescence Black Dots and Degradation Deceleration Strategy for Halide based - Perovskite Light Emitting Diodes	Do Thi Hoai National Cheng Kung University, Taiwan
P28	Comparative Analysis of the Gas Sensing Performance of Fluorene-Based Derivatives at Different Annealing Temperatures	Zong-Ping Wang National Yang Ming Chiao Tung University, Taiwan
P29	Top Transparent Perovskite Solar Cells with Co-deposited Interlayer for Sputter Damage Reduction	Yuya Sayama Yamagata University, Japan
P30	Additive Engineering of Inverted Perovskite Solar Cells Using Hydroxylamine-based Additives	Keisuke Nagasawa Yamagata University, Japan
P31	High Performance Free Fullerene Organic Photodetector using Vacuum Deposition Method for Strong Detectivity in Green Visible Light Region	M Rivaldi Ali Septian Ming Chi University of Technology, Taiwan
P32	Developing Ultra-Sensitive Gas Sensors for Nitrogen Oxides Utilizing Hole-Transporting Organic Semiconductors	Ying-Chang Lu National Yang Ming Chiao Tung University, Taiwan
P33	Investigating the Stretchability of Doped Poly(3-hexylthiophene)-block-poly(butyl acrylate) Conjugated Block Copolymer Thermoelectric Thin Films	Qing-Bao Zheng National Taiwan University, Taiwan
P34	Exploiting Perovskite Quantum Dots, Organic Emitters, and Semipolar Blue Micro-LED for Visible Light Communication and Solid-State Lighting	Annada Sankar Sadhu National Yang Ming Chiao Tung University, Taiwan

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P35	Metal-Halide Perovskite MAPbI <sub>3</sub> Film Ammonia Gas Sensor with Fractal Electrode Design	Ade Kurniawan National Taiwan University of Science and Technology, Taiwan
P36	Environment-friendly Antisolvent-Free Perovskite Light-Emitting Diodes	Johan Iskandar National Taiwan University of Science and Technology, Taiwan
P37	Deep-Blue (CIE-y= 0.045) Organic Light-Emitting Diode with EQE 6.31%	Jing Xiang Huang National Taiwan University, Taiwan
P38	Correlating Framework Structures and Thermoelectric Performance of Metal-Organic Framework/Carbon Nanotube Thermoelectric Hybrids with N-P Type Inversion	Meng-Hao Lin National Taiwan University, Taiwan
P39	Classic Fluorophores with a Horizontal Alignment for Enhancing Light Outcoupling Efficiency (~30%) and External Quantum Efficiency (~7%) of Near Ultraviolet ( $\lambda_{max} < 400$ nm) Organic Light-Emitting Diodes	Jian Haur Lee Academia Sinica, Taiwan
P40	Mixed Ionic/Electronic Conducting Hydrogels with Carboxylated Carbon Nanotubes for High Performance Wearable Thermoelectric Harvesters	Chia-yu Lee National Taiwan University, Taiwan
P41	Efficient Intramolecular Triplet-Triplet Annihilation Upconversion based on Anthracene Dimers and Their Molecular Structure Dependence	Shoma Sasaki Kyushu University, Japan
P42	Stabilities of TADF molecules based on multiple donor-acceptor design	Bhagya Madushani Kyushu University, Japan
P43	Abrupt exciton quenching in blue fluorescent organic light-emitting diodes around turn-on voltage region	Shunta Kakumachi Kyushu University, Japan
P44	Backbone Engineering of Fluorine-Substituted D-A Conjugated Polymer for Thermoelectric Applications	Jian-Fa Ding National Taiwan University, Taiwan
P45	Improve wide bandgap perovskite stability and performance via unique imidazolium-based ionic liquid additive	Sheng-Wen Huang Ming Chi University of Technology, Taiwan
P46	Exploring Dispersity in Carbon Nanotube Hybrids through Systematic Polarity Tuning of Conjugated Block Copolymers for Thin Film Thermoelectric Applications	Wei-Ni Wu National Taiwan University, Taiwan
P47	Synergistic Interactions in Sequential Process Doping of Polymer/Single-Walled Carbon Nanotube Nanocomposites for Enhanced n-Type Thermoelectric Performance	Po-Shen Lin National Taiwan University, Taiwan
P49	Tailoring of Self-Reporting Liquid Crystals for Food-Borne Bacteria	Yena Choi POSTECH, Korea
P50	Design of Selective Responsivity in Liquid Crystals via Organic Ionics	Jin-Kang Choi POSTECH, Korea
P51	Phenylene-Bridged Cyclic Multi-Resonance TADF Emitters for High-Efficiency and High-Color-Purity Sky-Blue OLEDs with EQE of 30%	Kengo Kumada Yamagata University, Japan

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P52	Formamidinium-Based Perovskite Film for Ammonia Gas Sensing Fabricated via Vacuum Deposition Process	Nurul Ridho Al Amin National Taiwan University of Science and Technology, Taiwan
P53	Blue Perovskite Quantum Dots Prepared Using an Anion-exchanged Method	Cheng-Ho Hsieh National Taipei University of Technology, Taiwan
P54	The Effect of Organic Hole Transport Layers on Red Perovskite Quantum-Dot Light-Emitting Diodes	Chen-Yi Lun National Taipei University of Technology, Taiwan
P55	Air-Stable FAPbI <sub>3</sub> Nanoparticles for Light Emitting Diode	Tsung-Lin Wu National Taipei University of Technology, Taiwan
P56	Surface Passivation for CsPbI <sub>3</sub> -xBr <sub>x</sub> Nanoparticles	Shu-Meng Yang National Taipei University of Technology, Taiwan
P57	Modulating Triplet-Triplet Annihilation to Singlet Fission Phenomena by Tuning the Thickness of Rubrene-Based Sub-bandgap Organic Light-emitting diodes	Tzu-Yu Huang National Cheng Kung University, Taiwan
P58	Oxygen-Induced Reversible Degradation of Perovskite Solar Cells	Badamgarav Purev-Ochir Kyushu University, Japan
P59	High-efficiency three-tandem OLED	Dian Luo Ming Chi University of Technology, Taiwan
P60	Realizing Ambipolar Transport and Strain-Resistant Semiconductors Through the Incorporation of Additives	Chih-Yuan Sun National Taiwan University, Taiwan
P61	Perovskite-Quantum-Dot LEDs Using Crosslinkable Hole Transporting Materials	Guo-Lun Ruan National Taipei University of Technology, Taiwan
P62	TEMPO-Oxidized Cellulose Nanofiber-Embedded Polymer Electrolytes and Robust Interfacial Modification for All-Solid-State Lithium Metal Batteries	Pei-Jin Lin National Taiwan University, Taiwan
P63	Chiral additive engineering for highly efficient wide-bandgap perovskite solar cells	Yu-Hung Hsiao National Taiwan University of Science and Technology, Taiwan
P64	Atomic Layer Deposition Free Process for Sputtering Buffer Layer in Large Area Bifacial Perovskite Solar Cells and Perovskite/Silicon Tandem Solar Cells	Yu-Ting Chen National Cheng Kung University, Taiwan
P65	Investigation of Carrier Conduction Mechanisms in Self-assembled Dual-layer Organic Thin Film Transistors	Po-Yu Yen National Sun Yat-Sen University, Taiwan
P66	Modeling Charge Capture Dynamics by Hole Current in Bilayer Organic Light Emitting Transistors	Ben, Bang-Yu Hsu National Cheng-Kung University, Taiwan
P67	A pyrene derivative in bi-EML of blue TTA OLED	Zi-Wen Su National Taiwan University, Taiwan

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P70	Module organic photovoltaic (OPV) with high stabilized performance	Tran Ho Ngoc Khanh National Yang Ming Chiao Tung University, Taiwan
P71	Synthesis and Characterization of Blue Thermally-Activated Delayed Fluorescent Material with Sulfur Oxide and Tetraphenyl Units for Induced Horizontal Alignment	Ya-Lei Hu Soochow University, Taiwan
P72	A pH-Sensitive Zwitterion Electrolytes with Bipolar Thermopower for Low-Grade Heat Harvesting	Ling-Chieh Lee National Taiwan University, Taiwan
P73	Rapid Crystal Growth of Quasi-Two-Dimensional Perovskite Single Crystals for Solar Applications	Nutcha Khambunkoed National Yang Ming Chiao Tung University, Taiwan
P74	A-site Cation Composition Engineering of (Cs/GA)PbI <sub>3</sub> Perovskite Nanocrystals for Highly efficient Red LEDs.	Mizuho Uwano Yamagata University, Japan
P75	Revealing the photoswitchability in organic phototransistor memory with a heterojunction structure	Isaac Lin National Taiwan University of Science and Technology, Taiwan
P76	Ultralow Energy Consumption and Fully Stretchable Photosynaptic Transistor Utilizing Triblock Copolymers with Perovskite Quantum Dots	Wei-Cheng, Chen National Taiwan University, Taiwan
P77	Investigation of the Mobility–Stretchability Properties of Naphthalenediimide-Based Conjugated Random Terpolymers with Biobased Epimers as Conjugation Break Spacers	Megumi Matsuda Yamagata University, Japan
P78	Highly Blue-Light Responsive Phototransistor Comprising Porphyrin Dye in Hydrogen Bonding Supramolecular Electret	Yi-Hsun Weng National Taiwan University, Taiwan
P79	Enhancing the Performance of Two-Dimensional Tin-Based Pure Red Perovskite Light-Emitting Diodes through the Synergistic Effect of Natural Antioxidants and Cyclic Molecular Additives	Chiung-Han Chen National Taiwan University, Taiwan
P80	Revealing the Effect of Branched Side Chain Length on Polymer Aggregation and Paracrystallinity for Improved Mobility-Stretchability Properties	Yen-Han Shih National Taiwan University, Taiwan
P81	Mechanism elucidation of TADF materials showing abnormal thermal behavior	Keito Mizukoshi Kyushu University, Japan
P82	Achieving an Ultralow Energy Consumption Using Conjugated Self-Assembled Layers in Photosynaptic Transistors	Ya-Shuan Wu National Taiwan University, Taiwan
P83	Fabrication Technology for Inverse-Structured Perovskite Solar Cells with Copper(I) Thiocyanate/ Cellulose Acetate Distributed Bragg Reflectors	Yoshiyuki Seike Aichi Institute of Technology, Japan
P84	Exploring the Charge-Trapping Behavior of Self-Assembled Sugar-based Block Copolymers with a Pendant Design in Photoassisted Memory	Tiffany Mulia National Taiwan University, Taiwan
P85	Exploring the Effects of Delayed Fluorescence Generated through Triplet-Triplet Annihilation on Phototransistor Memory	Zi-Yue Huang National Taiwan University, Taiwan
P86	Rod-like Molecules with Liquid Crystalline Phase Transitions for Photonic Memory Device	Yi-Chieh Neu National Taiwan University, Taiwan

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P88	Deposition Process Control of Artificial Spider Silk and Hemin Blends for Biobased Phototransistor Memory	Chih-Wei Hsu National Taiwan University, Taiwan
P89	Poly(3-hexylthiophene) homojunction transistors fabricated by polymer stamping	Kazuki Takayama Keio University, Japan
P90	Unveiling the Role of Self-Assembled Monolayer Structural Design in Optimizing Hole-Selective Contacts for Efficient Inverted Perovskite Solar Cells	Ming-Hsuan Yu National Taiwan University, Taiwan
P91	Fabrication of Distributed Bragg Reflector using CuSCN/CA by Inkjet Method	Kenshin Nakahama Aichi Institute of Technology
P92	Flexible Substrate with Integrated UV-Filtering Down-Conversion Layer for Efficient and Stable Flexible Organic Solar Cells	Carmela Michelle Esteban KAIST, Korea
P93	Enhancing TADF OLED based on acridine donor and spiro-B-heterotriangulene acceptor Light Outcoupling Efficiency: The Crucial Role of High Horizontal Dipole Orientation	Jeoungmin Ji KAIST, Korea
P94	High Performance Corbino-Type Organic Phototransistor with a Compact Design	Dongho Choi KAIST, Korea
P95	Investigation on poly[2,7-(9,9-dioctylfluorene)]-block-poly(n-butyl acrylate-random-UPy acrylate) in the photonic transistor memory	Chen-Fu Lin National Taipei University of Technology / National Taiwan University, Taiwan
P96	Modifying Physicochemical Traits of Dibenzo[a,j]phenazine-Based TADF Emitters through Phenyl Incorporation	Jaijanarathanan Lingagouder Lodz University of Technology, Poland
P97	Using donor-acceptor conjugated block copolymers as single-component photoactive materials or as compatibilizer in organic photovoltaics	Yu-Cheng Tseng National Taiwan University, Taiwan
P98	Exciplex-forming Co-host Systems with Twisted Carbazole-based Hole-transporting Materials for High-efficiency Orange OLEDs	Yi Rong-Huei National Taiwan University, Taiwan
P99	Exciplex-forming Cohost Systems with 2,7-Dicyanofluorene Acceptors for High Efficiency Red and Deep-Red OLEDs	Yi-Sheng Chen Ming Chi University of Technology, Taiwan
P100	High-Efficiency Near Infrared OLED Enabled by Exciplex-forming Hosts and a New Organic Fluorescent Emitter	Yi-Yun Chen National Taiwan University, Taiwan