

Poster session 1 / 11.13 (Thu)

No.	Title	Presenter	Affiliation
01-01	Two-Stage Polymerization Integrates Donor Optimization for Efficient Visible-Light Photocatalytic H ₂ Generation)	Sanghyeok An	Pohang University of Science and Technology (POSTECH)
01-02	Ligand-Polymer Crosslinked Architectures Enabling Robust PbS Quantum Dot Photodetectors in the SWIR Region)	Kyobin Park	Pohang University of Science and Technology (POSTECH)
01-03	Molecular Structure Design of Polymer-based Organic Cathodes for Enhanced Capacity and Durable High-temperature Stability	Soyoung Kim	Kumho National Institute of Technology
01-04	Shortwave Infrared Organic Photodiodes Achieving High Performance via Polaron Absorption in Doped Polymers	Sangjun Lee	Pohang University of Science and Technology (POSTECH)
01-05	Enhancing Thermal Stability of Organic Solar Cells via Active Layer Crosslinking with Azide-Functionalized Additives	Yejin Lee	Kumho National Institute of Technology
01-06	Challenges and Approaches in Short-Wave Infrared Organic Photodiode Design	Chan So	Pohang University of Science and Technology (POSTECH)
01-07	Polymer-Based Spherical Optoelectronic Devices Enabled by Gyroscopic Deposition	Taekmin Kim	Pohang University of Science and Technology (POSTECH)
01-08	Dual-Interface Engineering of the Source Electrode in Organic Schottky Barrier Transistors for a Record On/Off Ratio	Hye Ryun Sima	Pohang University of Science and Technology (POSTECH)
01-09	Robustly Doped Proquinoidal-Based Conjugated Polymers for Direct Short-Wave Infrared Photothermoelectric Devices and Detectors	Guan-Lin Chen	National Taiwan University
01-10	Structural Design of 2D Dion-Jacobson Tin Perovskites via Alkyl Chain Spacer Modulation for Efficient Charge-Transporting Semiconductors	Wantae Park	Pohang University of Science and Technology (POSTECH)
01-11	A Chloride-Based Crystallinity Control Strategy for High-Performance 2D Tin Halide Perovskite Transistors	Hyoungha Ryu	Pohang University of Science and Technology (POSTECH)
01-12	Retarding Degradation of Perovskite Thin Film with Lead Bication Thiocyanate Salt	Siwon Yun	Chungnam National University
01-13	Investigating Mechanism of Enhanced Photostability in Passivated Perovskite Solar Cells via Anti-solvent Additives	Wonjong Lee	Chungnam National University
01-14	Elucidating the Lead Halide Perovskite Crystallization via Optoelectronic Measurement	Hyeji Han	Chungnam National University
01-15	Wafer-Scale Electronics Enabled by Direct Photopatterning of Green Solvent-Processed 2D Nanomaterials	Wan Ho Cho	Ulsan National Institute of Science and Technology (UNIST)
01-16	Optimization of Recognition-Site Localization in Side-Gated Organic Electrochemical Transistor Immunosensors	Jiyoul Lee	Pukyong National University
01-17	Synergistic Conformal of Multifunctional Phenothiazine-Based Self-Assembled Monolayers for Better Interface Contact in High-Efficient and Stable Perovskite Solar Cells	Qurrotun Ayuni Khoirun Nisa	Pukyong National University
01-18	Multi-site Interaction of Ligands for High Performance Perovskite Solar Cells	Jinhyuk Choi	Pohang University of Science and Technology (POSTECH)
01-19	Room-Temperature Magnetic-Field-Free Circularly Polarized Luminescence from Individual Perovskite Quantum Emitters	Hung-Ming Chen	National Tsing Hua University
01-20	Stabilizing CsPbI ₃ Quantum Dots in Polar Solvents via Zwitterion Passivation	Tzu-Hao Liao	National Tsing Hua University
01-21	High Mechanical Durability in Intrinsically Stretchable Neuromorphic Devices via Phase-Programmed Semiconducting Polymers	Kwan-Nyeong Kim	Seoul National University
01-22	Four-dimensional (x, y, z, t) photoluminescence dynamics for probing vertical charge transport in perovskite solar cells	Boseung Je	Pohang University of Science and Technology (POSTECH)

Poster session 1 / 11.13 (Thu)

No.	Title	Presenter	Affiliation
01-23	Perovskite quantum dots improve the efficiency of organic solar cells through synergistic enhancements in light absorption, exciton transport, and interfacial dipole alignment	Dong Hwan Son	Pukyong National University
01-24	Vertical phase separation induced highly efficient pseudo-bilayer photoanodes for organic photoelectrochemical cells	Soonyong Lee	Korea University
01-25	DECONVOLUTING PL SPECTRA IN MIXED-HALIDE PEROVSKITES: INSIGHTS INTO PHASE SEGREGATION VIA DUAL FITTING MODEL	Asawar Batool	Chungnam National University
01-26	Fabrication of Inorganic Perovskite Thin Film Using Vacuum Deposition System	Minkyu Kim	Chungnam National University
01-27	Defect Management and Charge Dynamics Regulation by Cesium-Doped SnO ₂ for Highly Efficient and Stable Perovskite Solar Cells	Muhammad Adnan	Chungnam National University
01-28	Strain Regulation and Defect Passivation with 2D Organic Halide Salts for Air-Stable Perovskite Solar Cells	Zobia Irshad	Chungnam National University
01-30	Development of Sulfur-Containing Narrowband Emitters with Exquisitely Tuned Luminescence Colors	Daiki Endo	Kyushu University
01-31	Color-Tunable Narrowband Delayed Fluorescence in Peripherally Dendritic Modified Bis-Indolocarbazoles	Jun Hyeon Lee	Kyushu University
01-32	Development of Pyridopyrimidine-Containing Conjugated Polymer for Outdoor and Indoor Photovoltaics	Jiahui Duan	Kyushu University
01-33	Computational Study on tBP Free Hole Transport Layer for Stable and Efficient Perovskite Solar Cells	Dong Gyu Lee	Gyeongsang National University
01-34	Thermodynamic Analysis of YCl ₃ /ZnCl ₂ Additives for Improving Efficiency and Long-Term Stability of Quasi-2D Perovskite LEDs	Sang Wook Park	Gyeongsang National University
01-35	Computational Insights into Alkyl Diammonium Ligands Considering Strain-Induced Inhomogeneity in All-Perovskite Tandem Solar Cells	Jun Hyeok Choi	Gyeongsang National University
01-36	Molecular-Level Insights into Doping Mechanisms of Conjugated Polymers	Yubhin Cho	Gyeongsang National University
01-37	Transformable and Adhesive Nanomembranes for Skin-conformal and High-Performance Soft Bioelectronics	Daeyeon Lee	Ulsan National Institute of Science and Technology (UNIST)
01-38	Understanding Redox Mechanism and Ion Transport in NDI-Based Polymers via Multiscale Simulations	Hyeonsu Son	Gyeongsang National University
01-39	Tailored Thermoelectric Performance of Tetrasubstituted Thieno[3,2-b]thiophene-Based Small Molecule/Carbon Nanotube Composite Materials	Yu-Chuan Liu	National Taiwan University
01-40	Solution-processed Ag ₂ S thin films exhibiting low-voltage, high-performance bipolar resistive switching	Yoonjin Cho	Pohang University of Science and Technology (POSTECH)
01-41	Angle-dependent magneto-photoconductance modulated by a photoinduced fringe field-like effect in non-ferromagnetic pentacene/fullerene planar heterojunction	Anas Mujahid	National Cheng Kung University
01-42	Doping Effect and Electrical Behavior of Spiro-MeOTAD Films	Tatsuo Mori	Aichi Institute of Technology
01-43	Unanticipated Interfacial Redox Reaction in the NiO _x Transport Layer of Perovskite Light-Emitting Diodes	Thi-Hoai Do	National Cheng Kung University
01-44	Physical Vapor co-deposition of lead-free halide perovskite CsSn _{1-x} Zn _x Br ₃ and fabrication of inverted solar cells	Hanbo Jung	Kyushu university
01-45	Photon Recycling Effects and Electroluminescence in Perovskite Solar Cells	Jeongheon Park	Pohang University of Science and Technology (POSTECH)

Poster session 1 / 11.13 (Thu)

No.	Title	Presenter	Affiliation
01-46	Patternable Micro Electric Wires: Liquid Metal-Elastomer Core-Shell Electrodes	Safina Saidova	Korea Advanced Institute of Science and Technology (KAIST)
01-47	Photocatalytic hydrogen generation of Simplified Y6-Derivatives	Min Gyu Kang	Korea University
01-48	Conjugated Oligoelectrolyte-Driven Self-Assembled Monolayer for Bidirectional Interfacial Engineering in Sn-Pb Perovskite Solar Cells	Jong Bin Park	Korea University
01-49	Tuning Crystallization of Industry Compatible Evaporation-Solution Method Wide Bandgap Perovskite for Perovskite/Silicon Tandem Solar Cells on Commercial Silicon Bottom Cells	Yu-Ting Chen	National Cheng Kung University
01-50	Halogen Substitution in Non-Fullerene Acceptors for High-Performance Near-Infrared Organic Photodetectors and Semi-Transparent Solar Cells	Ji Yeon Son	Ajou University
01-51	Improving Stability of Blue Pt(II) Complex for Long Operational Lifetime Blue PhOLED	Young Hun Jung	Kyunghee University
01-52	Synergistic Indolocarbazole Stitching and Peripheral Acceptor Engineering Enable Narrowband Green MR-TADF Emitters For High-Efficiency, Long-Lifetime OLEDs	Hai Truyen Dang	Kyunghee University
01-53	Machine Learning- Driven Design of Sterically Protected High-Triplet Exciplex Hosts for Efficient Green OLEDs	Truong Thi Thuy	Kyunghee University
01-54	Exciplex Host Engineering for High Efficiency and Operational Stability of Green PSF Technology	Pavan Kumar Odugu	Kyunghee University
01-55	Stable n-Doped Electron Transport Materials for High-Efficiency and Long-Lifetime Tandem Blue OLEDs	Subramanian Muruganantham	Kyunghee University
01-56	Metallic-interlayer assisted liquid metal electrode for high performance intrinsically stretchable organic solar cells	Seungbok Lee	Korea Advanced Institute of Science and Technology (KAIST)
01-57	Suppressing Hole Accumulation through Sub-Nanometer Dipole Interfaces in Hybrid Perovskite/Organic Solar Cells for Boosting Near-Infrared Photon Harvesting	Min Seok Kim	Korea Advanced Institute of Science and Technology (KAIST)
01-58	Improved Performance of Perovskite Quantum Dot Photodetectors through Halide Vacancy Suppression via Phosphine-Based Ligand Engineering	Byeongchan Park	Pohang University of Science and Technology (POSTECH)
01-59	Impact of Fluorination on Exciton Dissociation and Interchain Polaron Formation in Push-Pull Conjugated Polymer Aggregates	Hyeokgu Yun	Pohang University of Science and Technology (POSTECH)

Poster session 2 / 11.14 (Fri)

No.	Title	Presenter	Affiliation
02-01	Low-temperature Photo-Crosslinkable, Highly Moisture-Resistant, and Flexible Encapsulant for Versatile Organic and Hybrid Optoelectronic Devices	Gyeongguk Jeon	Ajou University
02-02	A High-Performance Transpiration-Driven Electrokinetic Power Generator Using a Conjugated Polymer	Kyung Min Kim	Ajou University
02-03	Spectrally Flat Broadband Organic Photodetectors with Photoresponse up to 1400 nm via Using a Fused Thiophene-Based Non-Fullerene Acceptor	Ji Hye Yoon	Ajou University
02-04	High-Performance Inverted Perovskite Solar Cells using Carboxylic Acid-Functionalized PTAA as a Hole Transport Layer	Jae Woo Jeong	Ajou University
02-05	Pure Organic Visible-to-UV Solid-state Photon Upconversion based on Metal-free Sensitizer and Glassy Emitter Aggregates	Shun Watanabe	Kyushu University
02-06	Decoupling of Colloidal Perovskite Quantum Dots for Deep-Blue Light-Emitting Diodes	Kyung Yeon Jang	Seoul National University
02-08	Solution-processed growth of SnS2 single crystal	Hyein Hwang	Pohang University of Science and Technology (POSTECH)
02-09	Fabrication of Inorganic 3D Architectures via Chemical Coupling of Nanocrystals	Minseong Park	Pohang University of Science and Technology (POSTECH)
02-10	Aromatic 2,2-diphenylethylamine Ligand Exchange of FA0.9Cs0.1PbBr3 Perovskite Nanocrystals for High Efficiency Pure Green Light-Emitting Diodes	Shoki Mizoguchi	Yamagata university
02-11	Controlling Emission Wavelengths of Sn/Ge Halide Nanocrystals via Mixed Halides Composition	Sana Kakizaki	Yamagata University
02-12	Controlling Morphology and Aggregates Using Volatile Solid Additives to Enhance OPV Performance	Akira Sato	Yamagata University
02-13	Synthesis of Narrow-Luminescent Organic Small Molecules Containing Dibenzofuran	Yu-An Lu	soochow university
02-14	Dibenzofuran-Engineered High Bond Dissociation Energy Hole Transport Materials for Efficiency and Longevity of Quantum Dot Light-Emitting Diodes	Youngjun Hwang	Daegu Gyeongbuk Institute of Science and Technology (DGIST)
02-15	Investigation of Photophysical and Structural Characteristics of Low-Triplet Anthracene-Derived Multiple-Resonance Emitters	Li Cheng-Yang	Soochow University
02-16	Photothermally Cross-Linkable Polymeric Hole Transport Material with Azide Groups for Efficient and Stable Quantum Dot Light-Emitting Diodes	Jaehyeon Kim	Daegu Gyeongbuk Institute of Science and Technology (DGIST)
02-17	Development of Low-Triplet-Energy Multiple-Resonance Emitters Incorporating Pyrene and Anthracene	Yu-Hsuan Chiang	Soochow University
02-18	Benzodifuran as a Building Block for Low-threshold, Stable Organic Laser Emitters	Shota Fukuma	Kyushu University
02-19	Scaffold Induced Phase-controlled Crystallization for Thermally Evaporated Perovskite Light-Emitting Diodes	Chan-Yul Park	Seoul National University
02-20	Unveiling the Effect of Molecular-Weight on Charge Transport and Polaron Formation in Ion-gel Gated Organic Synaptic Transistors	Hyun-Haeng Lee	Seoul National University
02-21	Cost-Effective (Bi,Sb)2Te3 thermoelectric devices with Designed Voids for Co-Optimized Thermal and Electrical properties	Yae Eun Park	Pohang University of Science and Technology (POSTECH)
02-22	Sequential 3D Printing of Functionally Graded Thermoelectric Materials for Enhanced Energy Conversion	Hyunjin Han	Pohang University of Science and Technology (POSTECH)
02-23	Highly Efficient Fully Stretchable OLEDs with MXene Electrodes	Hyun-Wook Kim	Seoul National University

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No.	Title	Presenter	Affiliation
02-24	Kinetic Monte Carlo Simulation of Time-of-Flight Photocurrent Transients in Amorphous Organic Semiconductors	Hiroyoshi Naito	Osaka Metropolitan University
02-25	Study on the Growth Mechanism of Ruddlesden-Popper Phase (RNH ₃) ₂ Csn-1PbnBr _{3n+1} Nanoplatelets using Zwitterionic Ligands	Taesun Yun	Gwangju Institute of Science and Technology (GIST)
02-26	Achieving Chirality in Perovskite Nanocrystals by Post-Treatment of Chiral Ligands	Hyomin Park	Gwangju Institute of Science and Technology
02-27	Stretchable High-k Dielectric Metal Oxide Transistor on Polyimide using Azide-functionalized Coordination Ligand	Suryeon Jang	Pohang University of Science and Technology (POSTECH)
02-28	Red-Emitting CsPb(Br _{1-x} I _x) ₃ Nanocrystals via Thiocyanate-Alkali Metal Doping	Seonjin Lee	Jeonbuk National University
02-29	Top-Emitting RGB Fluorescent OLEDs with Narrowband Emission for High-Speed Visible Light Communication	Jin Hyup Kim	Inha University
02-30	Developing Synthesis of Silane-Based Host for Blue Phosphorescent OLEDs	Seonjeong Lee	Gyeongsang National University
02-31	Synthesis of Indolocarbazole-Based Hosts with Bipolar Characteristics	Eunju Shin	Gyeongsang National University
02-32	Balanced Molecular Design of Benzoselenadiazole π -Bridges and ICT-Enhanced Terminal Units for Highly Sensitive NIR Organic Photodetectors	Lee Un-Hak	Daegu Gyeongbuk Institute of Science and Technology (DGIST)
02-33	Synergistic Alignment of Pt-Based Sensitizer and Thermally Activated Delayed Fluorescence Emitters for High-Performance Phosphor-Sensitized Fluorescent Organic Light-Emitting Diodes	Lee Daeun	Inha University
02-34	Exciton quenching behaviors in 4CzIPN-based emission layers and their host material dependence studied by DCM-PL technique	Kotaro Kudo	Meiji University
02-35	Ultra-Sensitive Short-Wave Infrared Organic Photodetectors Enabled by a π -Conjugation Extended Proquinoid Electron Acceptor	Yeonsu Choi	Korea Research Institute of Chemical Technology
02-36	Polarization-Driven Electron Injection for Enhanced Organic Light Emitting Diode Performance	Amarja Katware	Inha University
02-37	The Effects of Methoxy Functionalization of Diketopyrrolopyrrole Based Conjugated Polymers on The Doping and Thermoelectric Properties	Landep Ayuningtias	Gyeongsang National University
02-38	Achieving Stable Ambipolar and Unipolar Transport in NDI-DPP-Thiophene Copolymers for Organic Transistors	Karina Ayu Larasati	Gyeongsang National University
02-39	Engineering Conformational Degrees of Freedom of Semiconducting Polymers in Solutions toward Controllable Liquid-Phase Molecular Assembly	Ben Hsu	National Cheng Kung University
02-40	DCM-EL study of relaxation processes in polyfluorene-derivative-based light-emitting electrochemical cells	Ryota Takubo	Meiji University
02-41	Comparative study on conjugated additives for efficient and stable perovskite solar cells	Haicheng Xia	Pukyong National University
02-42	Phenothiazine-based self assembled monolayers for systematically modulating interfacial dipole moments in perovskite solar cells	Eunhye Yang	Pukyong National University
02-43	Impact of Charge Accumulation on Device Degradation in Organic Solar Cells Studied by Displacement Current Measurement	Yuki Miyazawa	Meiji University
02-44	Fully Automated OLED Fabrication: A New Standard for Process Consistency	Seungchan Ham	Inha university
02-45	Aggregation optimization by molecular engineering of D18-based terpolymer for highly-efficient indoor organic solar cells	Se Jeong Park	Korea Research Institute of Chemical Technology

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No.	Title	Presenter	Affiliation
02-46	Crystallinity Engineering through Co-Additives for Improved Charge Transport and Op	Junpyo Lee	Seoul National University
02-47	Electrochemical Doping in Perovskites for Reconfigurable Photodiodes	Yongjin Kim	Seoul National University
02-48	Standardisation of Gate-Dependent Mobility Measurements in Organic Electrochemic	Youhyun Nam	Seoul National University
02-49	Enhancing Mixed Transport in Donor-Acceptor Polymers via Electrochemical Doping	Tae Hoon Kim	Seoul National University
02-50	Mechanochemical Engineering of 0D/1D Ternary Metal Halide Heterostructure for Wh	Jaeyoon Cho	Seoul National University
02-51	Dual-functional Additive Strategy for Stable and Efficient Lead-based Halide Perovski	Jungyoon Choi	Seoul National University
02-52	Solid Polymer Electrolyte Gated Tin Halide Perovskite Field-Effect Transistors	Taemin Jung	Seoul National University
02-53	Volatile Pseudohalide-Assisted Crystallization of Phase-Pure Quasi-2D Tin Halide Pe	Hyeonmin Choi	Seoul National University
02-54	High-Efficiency Narrowband Red PSF OLEDs Achieving BT.2020 with Ultralow Roll-Off and Long Operational Lifetime	Meghana Tirupati	Kyunghee University
02-55	Engineered Anthracene-Naphthobenzofuran Hosts for High-Performance Blue Fluorescent OLEDs	Aradhya Rajput	Kyunghee University
02-56	Extending the Photodetection Limit of Organic Photodiodes Beyond 1,000 nm via an Open-Shell Terpolymer	Moon-Ki Jeong	Seoul National University
02-57	Suppressing Aggregation through a Rigid DOBNA-Based Host for Ultralong-Lifetime Red Solution-Processed OLEDs	Yeonjoo Lee	Gyeongsang National University
02-58	Photoelectrochemical cells with all-organic photoanodes	Jiwoo Yeop	Gyeongsang National University