

2019 Best Poster Awards Winners

Category	Presenter	Affiliation	Presentation Title
Gold Medal	Yoonseok Kim	Korea Univ.	Two-Dimensional WSe ₂ /Wox Quantum Well Realized by Monolithic Phase Engineering
	Wonhee Jo	KAIST	Bio-mimetics: Shark Skin Inspired Low Fluid Drag Surface
	Hoje Chun	Yonsei Univ.	Highly Efficient Adsorbents for Removal of Gaseous Methyl Iodide Using Tertiary Amines Impregnated Activated Carbon
Silver Medal	Namhun Kim	Inha Univ.	Fabrication of membrane-gate field effect transistor using a sacrificial layer release process for versatile sensor platform
	Byungjoo Kim	Yonsei Univ.	L-band Passively Q-switched Fiber Laser Using Liquid Saturable Absorber Based on Tungsten disulfide (WS ₂) Solution
	Jaekyung Yi	UST	Enhancement of the oxygen evolution reaction in Ru based electrocatalysts by modification of electronic structure
	Yu-Ki Lee	Seoul Nat'l Univ.	Alpha alumina based Hybrid nano structural materials for advanced electronics
	Gyubeom Yeon	SEOULTECH	Piezo-actuated One-dimensional vibration-driven Patterning (POP) for continuous, high-precision, and period-tunable nanopatterning
	Hayoon Jung	KAIST	Graphene encapsulated Au@TiO ₂ core-shell nanostructures for wide-range visible-light photocatalysis
	Junbeom Cho	KAIST	3 dimensionally opened porous g-C ₃ N ₄ photocatalyst from KCC-1 with cobalt oxide quantum dots
	Hannah Kwon	Ewha Womans Univ.	Efficient and Stable Perovskite Solar Cells with F4-TCNQ doped TFB as Hole-Transporting Material
	Goeun Pyo	DGIST	Vertical Thin Film Transistor Employing Micro-hole Arrays
	Woon Hyung Cheong	UNIST	Wireless pressure sensing platform with sensor and battery built-in structure and instant visualization

Category	Presenter	Affiliation	Presentation Title
RSC	Munjeong Kim	Kongju Nat'l Univ.	Decomposition of ammonium dinitramide monopropellants over metal catalysts supported on nanoporous Cu-hexaaluminate
	Donguk Lee	Chung-Ang Univ.	Colloidal Synthesis of Aluminium hydroxide Nanoparticles for Transparent, Luminescent Polymer Nanocomposite Films
	Byeongho Park	KIST	Pattern analysis based color detecting bio-sensor with four types of photoreceptors
Best Poster	Ji Hyun Hwang	GIST	Hybrid Schottky-Drain Contacts For Quaternary $\text{In}_{0.04}\text{Al}_{0.55}\text{Ga}_{0.41}\text{N}/\text{GaN}$ HEMTs
Best Poster	Sang-Joon Park	Kwangwoon Univ.	Device performance of solution-processed resistive random access memory consisting of nanocrystalline metal-oxide dielectric
Best Poster	Young-Jin Jung	Inha Univ.	A Comprehensive Optical Analysis on Organic Light-Emitting Transistors
Best Poster	Sungsoon Kim	Yonsei Univ.	Thermochromic pressure sensor for visually pressure-mapping
Best Poster	Jae Hwan Jeong	Yonsei Univ.	Electrically Conducting and Mechanically Strong Graphene-Polylactic Acid Composites for 3D Printing
Best Poster	Jihoon Han	Pusan Nat'l Univ.	Mineralization with modified metal-organic framework (MOF) for drug delivery
Best Poster	Baegun Nam	Yonsei Univ.	Induction of neuroprotection via in vivo reprogramming factor OCT4 expression in transgenic mouse model of Huntington's disease.
Best Poster	Sangwoo Kim	KAIST	Real-time control of size distribution of cobalt nanoparticles grown on ceria surface
Best Poster	Jang Hwan Kim	KAIST	Linker-free polyoxometalates decorated nitrogen-doped carbon nanotubes for efficient water oxidation
Best Poster	Soyoun Kim	Dongguk Univ.	Effect of surface charge and functional group on toxicity of AuNPs; Are cationic AuNPs toxic?

Category	Presenter	Affiliation	Presentation Title
Best Poster	Yuhyun Park	KAIST	Mechanical characterization of nanotwinned Ni-Mo-W thin films for metal MEMS applications
Best Poster	Injoong Chang	Yonsei Univ.	The Effect of Particle Size in the Camouflage Coating for Long-wavelength infrared Emissivity Control
Best Poster	Changhoon Lee	Sungkyunkwan Univ.	Statistical inference and forecast of device performance using the process parameters for line edge roughness
Best Poster	Hoyoung Seo	Seoul Nat'l Univ.	Chemical reaction at hydrophobic water environment by Surface Enhanced Raman Spectroscopy
Best Poster	Yoonseo Nah	Ewha Womans Univ.	Highly Stable and Bandgap-tunable Light Emitting Diode based on Block Copolymer-Templated Perovskite Nanostructures.
Best Poster	Minho Kim	Seoul Nat'l Univ.	Dealloying-Based Facile Synthesis of Intra-Nanogap Particles with Strong, Stable and Quantifiable Raman Signals and Their Applications for SERS-Based Biosensing and Bioimaging
Best Poster	Jeongsu Jang	UNIST	Van der Waals Epitaxy of AuCN Nanowires on Graphene for Hybrid Phototransistor
Best Poster	Yong-Wook Kwon	Andong Nat'l Univ.	Study on mechanical reliability by twisting deformation of flexible electronic device
Best Poster	Jinsil Kong	Hanyang Univ.	Electrical properties of fermi level controlled Indium-Gallium-Zinc-Oxide thin-film transistors with additional layers
Best Poster	Ki-Baek Jeong	Kyung Hee Univ.	Reduction of DNA folding by ionic liquids and its effects on the analysis of DNA-protein interaction using solid-state nanopore
Best Poster	Suk-Heung Song	Kyung Hee Univ.	New functional giant magnetic glass-cored particles for diagnostic medicine
Best Poster	Sumin Cho	Kyung Hee Univ.	Development of novel type of the triboelectric nanogenerator for effective biomechanical energy harvesting

Category	Presenter	Affiliation	Presentation Title
Best Poster	Won Jun Chang	Hanyang Univ.	SEI-controlled nickel silicide nanowires anchored on inner surfaces of graphene-based micro-tubulars for ultrafast lithium-ion battery anode.
Best Poster	Chaedong Lee	Seoul Nat'l Univ.	Near-infrared fluorescent silica-coated iron oxide nanoparticles for surgical guidance of glioblastoma by targeting tumor-associated macrophages
Best Poster	Jonghwa Park	UNIST	Hierarchical nanoparticle-in-micropore architecture for enhanced mechanosensitivity and stretchability in mechanochromic electronic skins
Best Poster	Jeong Hee Shin	DGIST	Controlling step tunneling by floating in vertical metal-insulator-metal transistor
Best Poster	Seok Jun Kim	KIST	High durable hydrophobic polydimethylsiloxane (PDMS) coated Carbon as a Promising electro-catalyst Support for Polymer Electrolyte Membrane Fuel Cells via polymer brush treatment
Best Poster	Hyo-Jin Ahn	Univ. of Erlangen-Nuremberg	Gradient doping and decoration of Zn-Co layered double hydroxide for decreasing high onset potential of hematite photoanode
Best Poster	Jae Hyung Kim	UNIST	General Synthetic Route to Atomically Dispersed Catalysts for Revealing Their Catalytic Trends in Oxygen Reduction Reaction
Best Poster	Hyekyoung Choi	Sungkyunkwan Univ.	Energy-Level-Tuned InAs Quantum-Dot Films for Efficient Photovoltaics
Best Poster	Dong_Hyeong Jung	KIMM	Mechanical properties of AZO/Ag/AZO thin film deposited on polyimide substrate
Best Poster	Hyeonghun Kim	GIST	Defects engineered ZnO nanorods via surface conversion into ZIF-8 for superior visible-blind UV photodetector