

## 2015 Best Poster Awards Winner

Category	Presenter	Affiliation	Presentation Title
Grand Prize	Soo-Yeon Cho	KAIST	Superior volatile organic compound (VOC) sensing performance of versatile p-type metal oxide nanowire array
Gold Medal	Se-Yang Kim	UNIST	Controllable Synthesis of Graphene Encapsulated, Low-Dimensional Hybrid Nanocomposites
	Sungi Kim	Seoul Nat'l Univ.	In situ Monitoring and Analysis on Interactions between Single Plasmonic Nanoparticles on Fluidic Lipid Bilayer
Silver Medal	Kyumin Kim	Hanyang Univ.	Graphene-based tactile sensor with spatially digitized electrode
	Sanghoon Kim	Kyoto Univ.	Ultra-High Magnetic-Recording Density over 2.5 Gb/in <sup>2</sup> by Non-Destructive Low-Energy Proton Irradiation
	Yeon Ui Lee	Ewha Womans Univ.	Weak measurement post-selection of optical spin Hall effect in phase-discontinuity metasurface
Best Poster	Seunghyung Kwak	Hanyang Univ.	Self-aligned, Etching-free Graphene Electrode for SnS <sub>2</sub> Field Effect Transistors
Best Poster	So-Young Kim	GIST	Weak Pinning Effects at Metal/High-k Dielectric Stack Integrated for Top Gate Graphene Field Effect Transistors
Best Poster	Gi Woong Shim	KAIST	Systematic approaches on the growth of transition metal dichalcogenides for high performance electronics
Best Poster	Eunah Kim	Ewha Womans Univ.	Fabrication and optical characterization of Si nanopillar arrays for high performance optoelectronic device applications

Best Poster	Hyun Sung Park	KAIST	Unidirectional light transportation in topologically protected photonic surface state of chiral-hyperbolic metamaterial
Best Poster	Ho-Young Kang	Seoul Nat'l Univ.	All iron-based photoanode with hierarchical nanostructure for efficient water oxidation
Best Poster	Arvind H. Jadhav	Myongji Univ.	Synthesis of morphology controlled MgO nano structures using ionic liquid and its catalytic activity in organic transformation
Best Poster	Duckhyung Cho	Seoul Nat'l Univ.	Hybrid Nanostructures of CdS Nanowires and Au Nanohemispheres for Improved Optoelectronic Devices
Best Poster	Jae Hoon Yang	DGIST	Geometrical Enhanced Planar Asymmetric Graphene Tunneling Diode
Best Poster	Daesan Kim	Seoul Nat'l Univ.	Bioelectronic Sensor for Discrimination of Sweeteners Mimicking Human Tongue Using Heterodimeric Human Taste Receptor
Best Poster	Seyong Kwon	KAIST	Quantum dot-labeled cancer biomarker quantification using microfluidic immunohistochemistry
Best Poster	Rongke Gao	Hanyang Univ.	Highly sensitive detection of an anthrax biomarker poly- $\gamma$ -D-glutamic acid using SERS-based solenoid microfluidic chip
Best Poster	Chul Soon Park	KRIBB	The near-infrared fluorescent sensors for imaging hydrogen sulfide in living cells
Best Poster	Bon-Ryul Koo	SEOULTECH	Electrochemical characterization of carbon-coated SnO <sub>2</sub> -Co <sub>3</sub> O <sub>4</sub> composite nanowires for lithium-ion batteries
Best Poster	Kyeounghak Kim	SEOULTECH	Density functional theory study of surface oxygen incorporation mechanism on the yttria-stabilized zirconia
Best Poster	Hyewon Ryou	KAIST	Frenkel-Defect-Mediated Chemical Ordering Transition in LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Spinel

Best Poster	Dong Yo Sin	SEOULTECH	Synthesis of porous carbon nanofiber supported Pt catalysts for improved methanol electrooxidation
Best Poster	Dong-Hoon Lee	Sungkyunkwan Univ.	Analysis of hybrid poly (methyl methacrylate) and silicon nitride insulator for organic electronics
Best Poster	Kee-Bum Kim	Seoul Nat'l Univ.	Dehydrogenation reaction kinetics of the LiBH <sub>4</sub> -YH <sub>3</sub> composite promoted by inert gas back pressure
Best Poster	JiYeon Yun	Inha Univ.	Coloration and Morphology Control of $\beta$ -FeOOH Nano-pigment
Best Poster	Ki-Young Lee	KIST	Biologically assembled conductive nanomesh of single-walled carbon nanotubes
Best Poster	Hyo-Ryoung Lim	Hanyang Univ.	Fabrication of Hydrophilic/hydrophobic Nanostructured Surface on Aluminum
Best Poster	Choongman Moon	Sungkyunkwan Univ.	Fundamental Study on Electrohydrodynamic Behavior of Liquid Thin Film for Non-Conventional Lithography Technique
Best Poster	Sunjong Oh	KIMM	Simple Method for Stable Superhydrophilic Aluminum Surface towards Water Harvesting
Best Poster	Jun-Young Park	Gachon Univ.	Rho A expression of human mesenchymal stem cells on carbon nanotube-polymer composites
Best Poster	Park Chan Yeong	Chung-Ang Univ.	Label-free Colorimetric Detection of Salmonella Based on Enhancement of the Peroxidase Activity using Aptamer-adsorbed Magnetic Nanoparticles and Polydopamin@Au
Best Poster	Aastha Kukreja	Yonsei Univ.	A robust scaffold for multimodality, composed of a plasmonic gold core and a mesoporous Fe <sub>3</sub> O <sub>4</sub> shell
Best Poster	Minju Lee	Seoul Nat'l Univ.	DNA sensors based on CNT-FET with floating electrodes

Best Poster	Sung-Gil Hong	Korea Univ.	Immobilization and Stabilization of Lipase on Polyaniline Nanofibers for Esterification of Racemic Ibuprofen
Best Poster	Yoonbeom Park	Korea Univ.	Characteristics of fully transparent thermoelectric devices constructed with ITO and electrospun ZnO nanofibers
Best Poster	Jae-Sun Jung	UST	Preparation and Characterization of Co Based Catalyst Supported on Acid/Base Treated $\gamma$ -Al <sub>2</sub> O <sub>3</sub> for GTL-FPSO Application
Best Poster	Min-Jae Choi	KAIST	Enhancing photocarrier collection in colloidal quantum dot solar cells by heavily doping the metal oxide layer
Best Poster	Jae Hyun Han	KAIST	Flexible Single Crystalline PMN-PT Thin Film Nanogenerator and Its Application for Self-powered Cardiac Pacemaker
Best Poster	Jungmo Kim	KAIST	Enhanced Moisture Barrier Performance of Polymer Composite via Utilization of Non-oxidized Graphene Flakes Fabricated Through Solvothermal Intercalation
Best Poster	Heesun Yang	Hongik Univ.	Highly efficient, bright, color-reproducible full-color quantum dot-light-emitting devices
Best Poster	Ji Hae Ha	KITECH	The effects of mixed oxide catalyst on decarboxylation of glycerol carbonate
Best Poster	Jino Son	Oregon State University	Effect of pH and ionic strength on the fate and toxicity of encapsulated lambda-cyhalothrin to <i>Daphnia magna</i>
Best Poster	Jae-Kyung Choi	UNIST	Orientation-Sensitive Growth of Graphene on Texture-Controlled Platinum Thin Films and Thermal-Assisted Transfer of Patterned Graphene
Best Poster	Sungwook Park	KIST	Biocompatibility of Superparamagnetic Ferrite Nanoparticles for in-vivo Hyperthermia Agent Applications
Best Poster	Sun-young Park	NIER	ZnO nanoparticles dispersions in test media including natural organic matter for ecotological assesment

Best Poster	Qi Chen	Sogang Univ.	DNA-recombinant Azurin Conjugation as Biomemory Platform with Enhanced Sensitivity
Best Poster	Sang Min Park	POSTECH	A microfluidic device integrated with a free-standing nanofiber membrane by electrolyte-assisted electrospinning
Best Poster	Kyuri Kim	KAIST	Synthesis of Mucoadhesive Chitosan via Catechol Conjugation
Best Poster	Heekyeong Park	Kyung Hee Univ.	Layered Semiconducting MoS <sub>2</sub> Transistors for Highly Sensitive Biological Detection
Best Poster	Sung-gyu Kang	Seoul National Univ.	Investigating the mechanical properties of hollow nanostructures through in-situ nano-indentation
Best Poster	Jong Min Lee	KIST	Electrical conductive hydrogel microplatform for stem cell patterning
Best Poster	Tae-Eon Park	KIST	Room temperature electrical spin transport in GaN nanowires with CoFe/MgO contacts