

## 2016 Best Poster Awards Winner

Category	Presenter	Affiliation	Presentation Title
Grand Prize	Gun-Yeal Lee	Seoul Nat'l Univ.	Polarization multiplexed hologram via metasurfaces
Gold Medal	Manki Son	Seoul Nat'l Univ.	Rapid, portable, multiplexed bioelectronic device using carbon nanotubes functionalized with human sensory receptors
	Dae Keun Park	Sungkyunkwan Univ.	Electrochemical Detection of Toxin, Virus, and Bacteria Based on Interdigitated Electrode Arrays
Silver Medal	Seokbeom Kim	Sogang Univ.	Hollow nanomechanical resonant mass sensors via unconventional silicon self-assembly
	Ahreum Lee	Korea Univ.	Efficient Transport of Hot Plasmonic Electrons by Graphene for High Quantum Yield CO <sub>2</sub> Photoconversion
	Yoon Su Shim	KAIST	Atomic self-interaction correction calculations of transition metal dichalcogenides multilayers and heterostructures
Best Poster	Elsye Agustina	Sejong Univ.	Hybridization of Nanocarbon and Boron Nitride Fillers for Thermally Conductive Nanocomposites
Best Poster	Ara Cho	Univ. of Seoul	High-Throughput Computational Screening of Heteroatom-Doped Carbon Materials for Oxygen Reduction Reaction
Best Poster	Choi Eun Jeong	Koera Univ.	The synthesis of methanol from CO <sub>2</sub> /H <sub>2</sub> gas over CeO <sub>2</sub> -supported catalysts
Best Poster	Geun-Ho Han	Koera Univ.	Nano-sized Pd/TiO <sub>2</sub> catalysts for direct synthesis of hydrogen peroxide from hydrogen and oxygen

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Best Poster	Jaehyun Han	Yonsei Univ.	Highly Stretchable and Wearable Strain Sensor Using Entangled Graphene Network
Best Poster	Christine B. Hatter	Drexel Univ.	Two-Dimensional Transition Metal Carbide (MXenes) Reinforcement of Polymer Matrices for Enhanced Multifunctional Composites
Best Poster	Do Kyung Hwang	KIST	Ultrasensitive PbS Quantum Dot-sensitized Metal oxide Hybrid Phototransistor and Photo-inverter for Near-infrared Detection and Imaging
Best Poster	Seunghun Jang	KRICT	Theoretical studies on the low melting point metal contacts with carbon nanomaterials
Best Poster	Hyunjin Jeon	Dongguk Univ.	Monitoring protein-protein interactions using signal peptide reconstitution of live-cell based sensors
Best Poster	Min Sook Jeong	Biterials	Methodological considerations of electron spin resonance spin trapping technique for measuring of reactive oxygen species generated from metal oxide nanomaterials
Best Poster	Shin-young Jeong	KIST	All-solution processed near-UV quantum dot light-emitting device
Best Poster	Woo Jin Jeong	KAIST	Efficient atomistic simulation of InAs ultra-thin body tunnel FETs based on the TB-NEGF method
Best Poster	Hyejin Jung	KIST	Electrochemical CO <sub>2</sub> reduction with transition metal coordinated N-doped carbon
Best Poster	Hyun Jung	KIST	Surface Oxide Effect on the Lithiation Behavior in Different Oxide Thickness with Silicon Nano Wire: Molecular Dynamics Study
Best Poster	Benedict J. Kang	KIST	Multifaceted Toxicity Assessment of Catalyst Composites in Transgenic Zebrafish Embryos

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Best Poster	Byunghoon Kang	Yonsei Univ.	Drug Release by Remotely Controlled Diverse Magnetic Nanochains
Best Poster	Da-Young Kang	Sogang Univ.	Direct carbonization of 3D structured patterns and their supercapacitor application
Best Poster	Jae Soon Kang	KIT	Toxicological effects of silver sulfide nanoparticles (Ag <sub>2</sub> S-NPs) transformed from silver nanoparticles (AgNPs) in the environment
Best Poster	Jisun Ki	Yonsei Univ.	Intracellular miRNA sensing based on molecular beacon modified star-shaped gold nanoparticle.
Best Poster	Hong Hee Kim	Yonsei Univ. & KIST	Fabrication of Brightly Deep Blue Light-Emitting Diode from Carbon Dot as Luminous Materials
Best Poster	Inki Kim	POSTECH	Fabrication of deep sub-wavelength 3D metamaterials and metadevices using high precision multi-step electron beam lithography process
Best Poster	Jae Hyung Kim	UNIST	Relationship between Metal-Support Interaction and Durability in Platinum Supported on Heteroatom Doped Ordered Mesoporous Carbons for Oxygen Reduction Reaction
Best Poster	Ki-Hong Kim	Sogang Univ.	Resistive strain sensor and capacitive tactile sensor array in woven fabric form
Best Poster	Sang-Woo Kim	Gachon Univ.	Cellular uptake and drug efficacy of carbon nanotubes on cancer cells
Best Poster	Seongchan Kim	Seoul Nat'l Univ.	Functional siRNA delivery system based on porous silica nanoparticle with tunable pore size
Best Poster	Shin Hye Kim	KRISS	The Effects of Sample Preparation Methods on Analyte Migrations in Time-of-Flight Secondary Ion Mass Spectrometry (TOF-SIMS) Imaging

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Best Poster	Yongmin Ko	Korea Univ.	CNT/transition metal oxide nanoparticle nanocomposite electrode with high electrochemical properties and stability using ligand exchange-induced layer-by-layer assembly
Best Poster	Young-Ho Ko	ETRI	Design of spot-size converter for low polarization dependent loss of waveguide photodetector
Best Poster	Charmaine Lamiel	Yeungnam Univ.	Binder-free Ni-Co-Mn oxide nanoflakes grown on Ni foam for high-performance pseudocapacitive electrode
Best Poster	Daeho Lee	Gachon Univ.	Morphology tuning of hydrothermally-grown ZnO nanowires by seed layer patterning via laser direct writing
Best Poster	Jingon Lee	Kyung Hee Univ.	High Performance, Highly Bendable Thin Film Transistor Based on Multilayer MoS <sub>2</sub>
Best Poster	Jun-Young Lee	Yonsei Univ.	Meta-stabilization in phase change Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> nanowires
Best Poster	Kyuhyun Lee	Seoul Nat'l Univ.	Finding magnetic ordering in antiferromagnetic oxides using genetic algorithm
Best Poster	MinKyoung Lee	KIMS	Facile fabrication of 3D hybrid plasmonic nanostructures for highly sensitive chemical sensors
Best Poster	Song-ee Lee	KIST	Noncontact dry etching of polymers for nanoscale surface roughness
Best Poster	Wooseop Lee	Yonsei Univ.	Thickness and molecular weight dependence of perpendicularly orientation in PS-b-PMMA thin films
Best Poster	Yeon Ui Lee	Ewha Womans Univ.	Observation of extrinsic orbital Hall effect in cyclic group symmetric metamaterial

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Best Poster	Hyungwon Moon	Kyung Hee Univ.	Uniform growth of Large grain Multilayer MoSe <sub>2</sub> Films grown By modified Chemical Vapor Deposition
Best Poster	Hyunsung Moon	Seoul Nat'l Univ. Bundang Hospital	Theragnostic nanodroplets for photoacoustic and ultrasound signal amplification and optically triggered vaporization-induced drug release
Best Poster	Saejin Oh	Ewha Womans Univ.	Self-Assembly of Polythiophene Block Copolymers
Best Poster	Changsu Park	Yonsei Univ.	Real-time Control of Beam Scanning System to Compensate Error due to Environmental Factors in Laser Interference Lithography
Best Poster	Jungmin Park	Yonsei Univ.	Environment-responsive activatable nanoprobe for T1/T2 dual-mode magnetic resonance imaging of cancer
Best Poster	Jung Hoon Park	KAIST	Miniaturized Circular Polarization Analyzer using Metal-Dielectric-Metal (MDM) Structure
Best Poster	Tae soon Park	Inha Univ.	Electrodeposition of porous manganese oxide with various surfactants for supercapacitor electrodes
Best Poster	Sung Soo Shin	Seoul Nat'l Univ.	Cathode optimization of solid oxide fuel cell via electrospray deposition method
Best Poster	Kyung rock Son	Korea Univ.	Localized surface plasmon effect using aluminum nanoring structures from near-Ultraviolet light-emitting diodes
Best Poster	Hyun Beom Song	Seoul Nat'l Univ. Graduate School	Optically favorable gold nanodisks for the treatment of retinal neovascularization
Best Poster	Sujin Sung	GIST	Systematic Characterization and Control of Solution-Processed Titanium Dioxide Thin-Films for Electronic Devices

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Best Poster	Haena Yim	KIST	Fabrication of all-solid-state LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> /LiPON/SiN <sub>x</sub> batteries
Best Poster	Ji Ae Yoo	GIST	Direct Analysis of the Surface potential of chemical doped graphene using Electrostatic Force Microscopy
Best Poster	Sunkyu Yu	Seoul Nat'l Univ.	Artificially disordered potentials based on the competition between diagonal and off-diagonal disorders