

NANO KOREA 2017 Poster Presentation Schedule

TS01. Nanoelectronics & Photonics

· Set-up : July 12(Wed.) - July 14(Fri) 08:00-08:45 · Presentation : July 12(Wed.) - July 14(Fri.) 11:15-12:15
 · Tear-down : July 12(Wed.) - July 14(Fri.) 16:00-17:00 · Best Poster presentation : July 14(Fri.) 13:15-14:15

Presentation No.	Presenter	Affiliation	Title	Award Participation
July 12(Wed.)				
P1701_0152	Min Ju Yun	Sejong University	Oxygen-rich indium tin oxide based transparent forming free resistive random access memory devices with cross-bar array structures	●
P1701_0174	Pei-Chen Huang	National Chung Hsing University	Lattice orientation effect of local stressors on the width dependence performance of high-k metal gate pMOSFETs	●
P1701_0212	Chihyun Park	Yonsei University	Reversible deposition of stable silver thin films for bistable and switchable polarizer	●
P1701_0225	Shih-Hung Chen	National Chiao Tung University	Investigation of thick oxide capping layer for germanium thin films via excimer laser crystallization	●
P1701_0238	Kyeong-Keun Choi	Pohang University of Science and Technology (POSTECH)	CVD carbon film for capping layer in 4H-SiC based MOSFETs devices	●
P1701_0122	Hao-Hsiang Liang	National Chiao Tung University	Study on the Low Temperature Processing of n-Channel Polycrystalline-Germanium Thin-Film Transistors with the Continuous Wave Laser Crystallization	
P1701_0146	Ju Hwan Lee	Yonsei University	Capacitance-voltage hysteresis-free aligned liquid crystals on solution-derived lanthanum zinc oxide films as a function of ion-beam irradiation intensity	
P1701_0340	Young Rae Kim	Sungkyunkwan University	Electrostatically transparent graphene quantum-dot trap layers for efficient nonvolatile memory	
P1701_0387	Jeung Pyo Oh	Chonnam National University	Characteristics electro-mechanically driven luminescence elastomer composite film using ZnS:Cu and ZnInSnO/Ag/ZnInSnO.	
P1701_0481	Sungjun Kim	Seoul National University	Scaling effect of device size on resistive switching characteristics in SiN-based RRAM	
P1701_0464	Hyoungbeen Ju	Hanyang University	Top gate field effect transistor based on atomic layer deposition-grown SnS ₂	●
P1701_0465	Jonghyun Choi	Hanyang University	Transfer characteristics of Zinc Tin Oxide thin-film transistors depending on sputter deposition conditions	●
P1701_0468	Sunjin Kim	Hanyang University	Improved electrical characteristics of zinc tin oxide thin film transistors using hydrogen plasma treatment and vacuum annealing	●

P1701_0476	Chaewon Kim	Korea Electronics Technology Institute (KETI)	Hybrid electrodes with silver nanowires and indium tin oxide nanoparticles (ITO-NPs) for improved charge injection in solution-processed indium gallium zinc oxide (IGZO) thin-film transistors (TFTs)	●
P1701_0499	Ju Chan Lee	Hankyong National University	Workfunction engineering of source-overlapped dual-gate tunnel field-effect transistor	●
P1701_0524	Sang-Geon Park	Silla University	Characteristics of OLEDs Improved by Introducing a Fluorinated Self-Assembled Monolayer as a Buffer Layer	●
P1701_0597	Soo Yeun Han	Inha University	Effect of Rb incorporation on crystallization of IZO films in TFT device	●
P1701_0654	Woo Young Choi	Ajou University	Enhanced compact model for Ge-Si heterojunction double-gate tunnel field-effect transistors (TFETs)	●
P1701_0665	Doohyeok Lim	Korea University	Bendable silicon nanowire bistable resistor for capacitor-less 1T-DRAM	●
P1701_0670	Jae-Won Choi	Inha University	A low temperature solution based In ₂ O ₃ thin film transistors fabrication using visible laser assisted combustion process	●
P1701_0016	SUNGIL KIM	Korea Institute of Machinery and Materials (KIMM)	Rapid Monolithic Fabrication of Glass-based Microfluidics Device using Femtosecond Laser Process	●
P1701_0222	Yooji Hwang	Koera University	Au Nanostructured Layer by Laser Interference Lithography for Enhancing Absorption of Mid-IR spectrum	
P1701_0269	Kwang-Wook Choi	Koera University	Plasmon Effect for Enhancing Infrared Absorption by Using Au Nanoparticles with Graphene	●
P1701_0270	Boo Heung Lee	Sungkyunkwan University	High quality photodetector using vertically stacked heterostructure Graphene/h-BN/Silicon	●
P1701_0296	Jungdong Kim	Chungnam National University	Photocurrent characteristics of PbS interdigit devices	
P1701_0311	Byoung-Soo Yu	Kwangwoon University	Interfacial engineering on solution-processed boron-nitride thin films for optoelectronics	●
P1701_0335	Ui Yeon Won	Sungkyunkwan University	High performance MoS ₂ /h-BN/Si photodetector by adjusting tunneling current	
P1701_0342	Sanghyeon Nam	Korea Advanced Institute of Science and Technology (KAIST)	Inch-scale, nano-periodic woodpile structure by proximity field nanopatterning (PnP) with conformal multi-level phase mask	●
P1701_0347	Joonam Kim	Sungkyunkwan University	Highly increased responsivity of MoS ₂ thin film by treating All-trans-retinal	
P1701_0407	Gyeongho Son	Korea Advanced Institute of Science and Technology (KAIST)	Fabrication of fiber taper waveguides using tube-etching	●

P1701_0526	Da-eun Kim	Seoul National University of Science and Technology (SEOULTECH)	Enhancing methods for OH radical generation of TiO ₂ nanotube plates	
P1701_0695	Young-Ho Jin	KU-KIST Graduate school of Converging Science and Technology	Field engineering of plasmonic nanocavity for efficient coupling with silicon waveguide	●
P1701_0784	Heesang Ahn	Pusan National University	Surface plasmon resonance sensor based on composited material	
P1701_0800	JaeYoung Jo	Inha University	Verdet constant measurement of magneto-optic materials with an auto-balanced photodetector under alternating magnetic fields	●
P1701_0819	Heon Kong	Chonnam National University	Properties of defect mode in one-dimensional photonic crystals based on tellurium suboxide	
P1701_0935	Jagang Park	Korea Advanced Institute of Science and Technology (KAIST)	Electric-Field-Induced Second-Order Nonlinearities for Terahertz Waves	●
P1701_0990	Hyounguk Kim	Korea Institute of Science and Technology (KIST)	Plasmonic enhanced optical characteristics of Ag nanoparticles/ZnO nanorods heterostructure	
P1701_0995	Gyu-Jae Yohn	Korea Polytechnic University	Wide bandgap transparent conducting electrode of FTO/Ag/FTO multilayer for ultraviolet light-emitting diodes	●
P1701_0998	Joon-Sung Kwon	Korea Polytechnic University	High reliability Ag reflective electrode with Cu alloy nanoparticles for high efficient GaN-based light emitting diodes	●
P1701_0862	Kyung Rock Son	Koera University	Improved light-output power from high-density, GaN-based micro-light- emitting diode arrays	●
July 13(Thu.)				
P1701_0253	Joo Won Han	Pukyong National University	White organic light-emitting diodes with high performance down-conversion light extraction films.	●
P1701_0256	Dong Jin Lee	Pukyong National University	Highly Conductive Polymers as Transparent Electrodes for High Performance ITO-Free Organic Optoelectronic Devices	●
P1701_0299	Hyeck Go	Korea Institute of Industrial Technology (KITECH)	Light-scattering layer based on sub-micron pores in polymeric media for optoelectronic devices	●
P1701_0333	Aisyah Nurmaulia En	Pukyong National University	High Performance Silver Nanowire Transparent Electrodes for Stretchable Electronics	●
P1701_0371	Hyunsu Jung	Korea Institute of Industrial Technology (KITECH)	Stretchable and smooth transparent electrodes based on silver nanowiresfor stretchable electronics	●
P1701_0516	Seung-Gon Song	University of Seoul	Properties of an asymmetric double barrier device using charging effects for nonvolatile memory application	

P1701_0557	Dong Chul Choo	Hanyang University	Electrical and optical properties of silver nanowire electrode patterns fabricated utilizing UV/ozone treatment	
P1701_0584	Taeho Kim	Hanyang University	Achieving high mobility of zinc oxynitride thin-film transistor by metal capping method	
P1701_0585	Joosung Ahn	Hanyang University	Carrier transport mechanisms of field effect transistors based on the high-k layer sandwiched compound semiconductor materials	
P1701_0586	Hyun Soo Jung	Hanyang University	Enhancement mechanisms of the electrical characteristics of 3D NAND flash memory devices due to an embedded buried channel	
P1701_0588	Kee Tae Kim	Hanyang University	Electric potentials and electron densities of vertical flash memories with a macaroni structure	
P1701_0601	Jae Hyeon Park	Hanyang University	Comparative analysis of self-heating effect on the electrical characteristics of n-MOS and p-MOS strained Si FinFETs	
P1701_0605	Taehoon Lee	Hanyang University	Transparent Resistive Switching Devices using ZnO on Metal-Capped ITO Electrode for Improved Resistive Characteristics	
P1701_0696	Hong Hee Kim	Korea Institute of Science and Technology (KIST)	A very flexible inverse quantum dot light-emitting diode (LED) on an elastic polyurethane (PU)	●
P1701_0790	Minsu Park	Korea Advanced Institute of Science and Technology (KAIST)	Highly efficient solid-state photoluminescence from graphene quantum dot incorporated boron oxynitride nanostructure	●
P1701_0829	Ke Luo	Kyung Hee University	Electrical method to evaluate the effect of calcium carbonate nanoparticles on membrane dynamics	●
P1701_0842	Ki-Baek Jeong	Kyung Hee University	Structural change of DNA by ionic liquids and its characterization using solid state nanopore	●
P1701_0860	Dae Woong Jung	Kyungpook National University	Development of lift-off patterning technology of ZnO-graphene thin films on plastic substrates for flexible and transparent thin film transistors	
P1701_0894	Yong Seon Shin	SunKyunKwan University	The analysis on mobility of Vertical field effect transistors composed by Graphene/WSe ₂ heterostructure	
P1701_0898	Yongsu Lee	Gwangju Institute of Science and Technology (GIST)	Fabrication and characteristics of Three dimensional nano electro-mechanical switch(NEMS) using multi-layer graphene	●
P1701_0931	ShinYoung Jeong	Korea Institute of Science and Technology (KIST)	Microscale multi-patterned Full-color Quantum dot Light-emitting devices	●
P1701_0945	Yong-Rae Jang	Hanyang University	Wavelength-controlled plasmonic flash light welding of silver nanowire using optical filters	●
P1701_0946	Wan-Ho Chung	Hanyang University	In-situ monitoring of silver nanowires via combined flash light irradiation process with UV-C, NIR and xenon lamp for flexible transparent electrode	●

P1701_0953	Ji-Hyeon Chu	Hanyang University	Filling and flash light sintering of via-hole using hybrid-ink for printed electronics	●
P1701_1016	Euyhwan Park	Seoul National University	Back-bias effect on nanowire Tunnel Field-Effect Transistors for Modulating Turn-on point	
P1701_1043	Yong Hyun Kim	Pukyong National University	High Performance ITO-Free White Organic Light-Emitting Diodes Using Highly Conductive PEDOT:PSS Transparent Electrodes	●
P1701_1051	Seong-Min Hong	Korea Institute of Machinery and Materials (KIMM)	Roll-based Transfer Process of Micro Light Emitting Diode with Direct Interconnection via Solder Paste	●
P1701_0186	Hyeon-Tak Kwak	Dongguk University	Thermal analysis of AlGaN/GaN HEMT and its RF power efficiency optimization with source-bridged field-plate structure	
P1701_0191	Jun Gyu Lee	Hanyang University	Effect of interface trap on the electrical characteristics of three-dimensional vertical NAND flash memory devices	
P1701_0408	dong gyu kim	Korea Institute of Science and Technology (KIST)	Highly flexible transparent silver electrode with enhanced nanowire networks	●
P1701_0482	Chang-Ju Lee	Kyungpook National University	Evaluation method for field-effect mobility of graphene considering gate bias-induced contact resistance modulation effects	
P1701_0747	Daehwa Jung	Kyungpook National University	Wafer-scale fabrication of two-dimensional MoS2 field effect transistor	
P1701_0807	Tae Jun Ahn	Hankyong National University	Electrical characteristics of Ge/Si-based Source Pocket Tunnel Field-Effect Transistors	●
P1701_0872	Sehyun Kwon	Hanyang University	Characteristics of Z2-FET : A floating-body capacitorless 1T-DRAM device	●
P1701_0084	Da Ye Song	Hanyang University	Electronic and optoelectronic characteristics from MoS2 heterojunction structure with Si substrates	
P1701_0228	Ilmin Lee	Sungkyunkwan University	Nanogap Field-Effect Transistor based on graphene electrodes with low DIBL and short channel effect.	
P1701_0327	Kang, Doo Hyung	Korea Advanced Institute of Science and Technology (KAIST)	Synchronization by electrical coupling of parallel-connected spin torque nano-oscillators	●
P1701_0443	Byoung-Cheol Kang	Kwangwoon University	Ultra low voltage operating single-walled carbon nanotube thin-film transistors	●
P1701_0663	Byoung Jun Park	KU-KIST Graduate school of Converging Science and Technology	Nano-Slot Photonic Crystals	

July 14(Fri.)

P1701_0005	Jeong-Eun Park	Seoul National University	Intense plasmonic photoluminescence from interior gap-engineered gold nanocubes	●
P1701_0077	JEONG-GEUN YUN	Seoul National University	Ultra-thin and high efficiency circular polarization converter using flat optics	●
P1701_0085	Sun-Je Kim	Seoul National University	Ultra-thin active VO ₂ metafilm for double target absorption spectra	
P1701_0232	Jongwoo Hong	Seoul National University	Numerical analysis for complex modulation on slanted waveguide with plasmonic cavity-aperture	●
P1701_0236	Sang-Eun Mun	Seoul National University	Transmission enhanced phase-only modulation based on multi-nanorod metasurface	●
P1701_0302	Hansik Yun	Seoul National University	Surface plasmon resonances at two separated metal caps	
P1701_0535	Jaehyeon Son	Korea Advanced Institute of Science and Technology (KAIST)	Time-varying terahertz metasurfaces and frequency conversion via non-adiabatic transformation of resonances	●
P1701_0697	Sang-Hyeok Mun	Kyungpook National University	Active Graphene Meta-lens operating in Terahertz regime	
P1701_0749	Kyungjun song	Korea Institute of Machinery and Materials (KIMM)	Concentric artificial impedance surface for sound beamforming	
P1701_0787	BOYOUNG KANG	Center for Advanced Meta-Materials	Directional asymmetry of transmission in a planar metamaterial	
P1701_0889	Hyun Sung Park	Korea Advanced Institute of Science and Technology (KAIST)	Tunable, nondispersive optical activity of quasi-planar, bi-layered chiral metamaterials	●
P1701_0930	Soojeong, Baek	Korea Advanced Institute of Science and Technology (KAIST)	Broadband THz Tunable Beam Splitter Based on Electrically-controlled Graphene Metadevices	●
P1701_0939	Hyeon-Don Kim	Korea Advanced Institute of Science and Technology (KAIST)	Electrical control of one circular polarisation in graphene integrated chiral metamaterials	●
P1701_0997	Byungsoo Kang	Korea Advanced Institute of Science and Technology	Directional thermal infrared absorption and emission of zero refractive index dielectric metamaterials	●
P1701_1017	Yohan Lee	Seoul National University	Electro-optic phase modulator using conducting oxide metasurfaces	●
P1701_1020	Hyeonsoo Park	Seoul National University	Perfect construction of plasmonic field by regularized dipole-like radiation	●

NANO KOREA 2017 Poster Presentation Schedule

TS02. Advanced Nanomaterials

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 · Tear-down : July 12(Wed.) - July 14(Fri) 16:00-17:00 · Best Poster presentation : July 14(Fri) 13:15-14:15

Presentation No.	Presenter	Affiliation	Title	Award Participation
July 12(Wed.)				
P1702_0364	Seok Hwan Jeong	Sungkyunkwan University	Mass-fabrication of nanoporous anodic aluminum oxide: simultaneous multi-surfaces anodization and direct detachment through stair-like reverse biases	●
P1702_0377	Byeongjun Yoo	Seoul National University	Multi-dye-sensitized Upconverting Nanoparticles for Photo-triggered Destructible Ultrathin Memory Devices	●
P1702_0386	Bo-Kyung Choi	Korea Institute of Carbon Convergence Technology (KCTECH)	One-pot synthesis of Ag-doped TiO ₂ /GO composites for removal of metal-ion	
P1702_0411	Chang Kee Lee	Korea Institute of Industrial Technology (KITECH)	Morphological study of nanocomposite mats based on DNA wrapped CNT nano-wire with PEDOT:PSS relating to its conductivity	
P1702_0418	Bui Thi Phuong Quynh	Nguyen Tat Thanh University	Magnetic NiFe ₂ O ₄ decorated exfoliated graphite as an efficient sorbent for removal of oils and organic pollutants	
P1702_0424	Sung-Chan Jang	Korea Atomic Energy Research Institute	Porous structured potassium ferric hexacyanoferrate-alginate/clay hydrogel for selective and rapid cesium adsorption	●
P1702_0181	Se Jung Kim	Koera University	Improvement of barrier properties by LBL assembly deposition of Nano composites	
P1702_0210	Jae-Young Lee	Woosuk University	Electroless Preparation of ZnO Nanorods on Polyacrylonitrile (PAN) Fiber Activated by Palladium (Pd) Nanocatalysts via a Drying Process	
P1702_0451	cheong soo hwang	Dankook University	Detection of Copper (II) ions using the L-glycine Capped ZnS:Mn Nanocrystals in Aqueous Solution	
P1702_0320	Myung-rang Chae	Gyeongsang National University	Fabrication and Electrochemical Properties of Silicon-Carbon fibers by Electrospinning	●
P1702_0376	Hyeon-Hye Kim	Korea Institute of Carbon Convergence Technology (KCTECH)	Preparation and characterization of zinc oxide-copper (ZnO-Cu) nanoparticles reinforced-thermoplastic composites for antimicrobial behavior	●
P1702_0438	El-Mostafa Bourim	National Nanofab Center	Non-evaporable Getter Based On Multi-layered Thin Film Structures For MEMS Applications	
P1702_0489	Keuk-Min Jeong	Pusan National University	Effect of Grphene Oxide Content on the Tensile Properties and Swelling Ratio of Chitosan/Xanthan Gum/Graphen Oxide Hydrogel Films	

P1702_0492	Hong Yeol Park	Pusan National University	Ti-mesh based triboelectric nanogenerators for a liquid flow energy harvesting	●
P1702_0589	Byoung-Joon Kim	Andong National University	Evaluation of mechanical reliability of metal interconnect on flexible substrate and international standardization	●
P1702_0505	Ji-Hoon Lee	Korea Institute of Materials Science (KIMS)	Reversibly deformable all-carbon-based large-area electrochemical capacitors	
P1702_0519	Sung-Myung Ryu	Hannam University	Adsorption and optical properties of methylene blue dye on WO ₃ nanorods	●
P1702_0765	Yeon Ju Lee	Korea Institute of Science and Technology (KIST)	Titanium Dioxide (TiO ₂) with Intrinsic Violet-Blue Emission Centers-Graphene Nanocomposites for Highly Enhancing Photoactivity under Visible Light	●
P1702_0549	Kim Tae woo	Pusan National University	Gore-Tex based wearable triboelectric nanogenerators	
P1702_0556	Soon Hee Park	Korea University	Extra High Hydrothermal Stability and Activity of Selective Catalytic Reduction over Cation Exchanged High Silica CHA	
P1702_0572	Ji Yong Yoo	Myongji University	Preparation and characterization of UV/Heat dual-curable adhesives for liquid crystal device using reactive core-shell nanoparticles	
P1702_0573	Waqar Khan	Dongguk University	Study of hydrothermally grown zinc oxide nanorods on oxygen-plasma treated ZnO crystallites	
P1702_0578	Jae-Seok Yu	Seoul National University	DNA translocation through a nanopore in self-assembly peptide membrane	●
P1702_0909	Ji-Yong Kim	Seoul National University	Stoichiometry and Structure controlled Ni phosphide/C Nanofibers for Hydrogen Evolution Reaction through Electrospinning	
P1702_0914	Kootak HONG	Seoul National University	Inhibition of Ion Migration for Reliable Operation of Hybrid Perovskite-Based Metal/Semiconductor/Metal Broadband Photodetectors	
P1702_0591	Yujun Lee	Korea Atomic Energy Research Institute (KAERI)	Surface Hydrophobization of Cellulose Nanocrystal by Electron Beam Irradiation	●
P1702_0970	Jiwon Jeong	Dankook University	Injection molding of metal-like composites incorporated with Al powders	
P1702_0637	Wan-Tae Kim	Gangneung-Wonju National University	Effect of Ti crystal orientation on formation of TiO ₂ nanotube arrays in anodic oxidation process	
P1702_0638	Kyeong-Han Na	Gangneung-Wonju National University	Fabrication of the magnetic ferrite nanofibers by electrospinning process	
P1702_0647	Hyeong Jin Kim	Chosun University	Surface modification of zirconia substrate by room temperature spray coating	

P1702_0649	Dae Sung Kim	Chosun University	Effect of slurry viscosity on the sintered property in 3Y-TZP ceramics prepared by slip casting	
P1702_0652	Ji Hoon Lee	Korea Advanced Institute of Science and Technology (KAIST)	Combined CO ₂ -philicity and Ordered Meso-porosity for Highly Selective CO ₂ Capture at High Temperatures	●
P1702_0713	Minho Kim	Seoul National University	Dealloying-based facile synthesis and highly catalytic properties of Au core/porous shell nanoparticles	●
P1702_0736	Il Song Lee	Korea Atomic Energy Research Institute (KAERI)	Internal decorporation agents based on Prussian blue caged with cellulose for the removal of cesium ions from gastrointestinal tract	●
P1702_0753	Sangin Kim	Naieel technology	Mass production engineering for Boron Nitride Nanotubes (BNNT)	●
P1702_0758	Young Ryul Kim	Naieel technology	Highly efficient thermal conducting materials based on boron nitride nanotubes (BNNTs)	●
P1702_0774	Jong-Ho Moon	Korea Institute of Energy Research (KIER)	Preparation of nanoporous CuY zeolite catalysts via ultrasonication and microwave treatments for DMC synthesis	
P1702_0836	Cheon Woo Moon	Seoul National University	Plasmonic Octahedral Gold Nanoparticles of Maximized Near Electromagnetic Fields for Enhancing Catalytic Hole Transfer in Solar Water Splitting	
P1702_0849	Yeon Hoo Kim	Seoul National University	Chemically Fluorinated Graphene Oxide for Room Temperature Ammonia Detection Capability at ppb Levels	
P1702_0873	Manish Kumar	Pohang University of Science and Technology (POSTECH)	Structure and functionalities of manganite/cuprate thin film	●
P1702_0885	Eunil Hahm	Konkuk University	Dimeric β -CD immobilized Ag Assembled Silica Nanoparticles to Sensitive Detect for Polycyclic Aromatic Hydrocarbons	●
P1702_0890	Bohyun Kang	Ewha Womans University	Fine-tuning of Bond Covalency and Manganese Valency as an Efficient Way of Improving Electrocatalytic Activity of Manganese Oxides	●
P1702_0891	Xiaoyan Jin	Ewha Womans University	Remarkable improvement of the electrocatalyst functionality of graphene upon the incorporation of exfoliated metal oxide 2D nanosheet	●
P1702_0897	Phornsawat Baipaywad	Chung-Ang University	Facile preparation of monodisperse functional poly(dimethylsiloxane) nanoparticles	●
P1702_0936	Eunji Kang	Konkuk University	Flavonoid detection based SERS using Ethylenediamine- β -Cyclodextrin as a capturing ligand	●
P1702_0954	Kyungnae Baek	Ewha Womans University	Using polydisperse, near micron-sized TiO ₂ particles for color generation and optical index determination of homogeneous media	●
P1702_0960	Hyung-Mo Kim	Konkuk University	Multifunctional SERS Nanoprobe containing Unique Property of Magnetic-Fluorescence for Bio Applications	●

P1702_0966	Jiseong Jang	Hanbat National University	Improvement electrical conductivity and morphology of silver nanowire transparent electrode by electrodeposition	●
P1702_0978	현예섭	Sejong University	Gas-phase Purification for Metal-free Multi-walled Carbon Nanotubes and Characterization of Their Surface Properties	●
P1702_0983	Dohyub Jang	Korea Institute of Science and Technology (KIST)	Anion-assisted photoluminescence enhancement from iron oxide nanocrystals	
P1702_0991	Jae-Young Oh	Hanbat National University	Preparation and characterization of chemical bath deposited zinc oxide transparent electrode	●
P1702_0992	Yongse Kim	Sejong University	Thermally conductive but electrically insulating polymer composites using graphite nanoplatelets coated with silica nanoparticles	●
P1702_1010	Jeong Won Ko	Sahmyook University	Synthesis of Gold Bipyr amid Nanoparticle-[C60]Fullerene Nanowhisker Composites and Reduction of 4-Nitrophenol	●
P1702_0534	Ho Sang Jung	Korea Institute of Materials Science (KIMS)	Graphene Surface modification on Titanium for accelerated bone tissue regeneration	
P1702_0483	Ki Won Gyak	Pohang University of Science and Technology (POSTECH)	3D Printed SiCN Ceramic Microreactor System from Photo-Curably Modified Pre ceramic Resin	
P1702_0858	Wonjin Jo	Korea Institute of Science and Technology (KIST)	3D printed hierarchical structures functionalized with TiO ₂ nanoparticles: Photo-induced reaction	
July 13(Thu.)				
P1702_0017	Changhyun Roh	Korea Atomic Energy Research Institute (KAERI)	Design and coating of Au nanoparticles	
P1702_0263	Chae Hee Park	Sungkyunkwan University	Enhanced Photocatalytic Activity of Anatase TiO ₂ Mesocrystal/CNT through Calcination Process	
P1702_0353	Keyru Serbara Bejigo	Gachon University	Synthesis and characterization of manganese ferrite (M _x Fe _{3-x} O ₄) decorated graphene aerogel for oxygen reduction reaction	●
P1702_0395	Seulki Kang	Ewha Womans University	Self-Assembly of Amphiphilic Polymers and Magnetic Nanoparticles	●
P1702_0396	Xiaole Hu	Ewha Womans University	Synthesis and Properties of DNA-grafted Poly(acrylic acid)	●
P1702_0398	Sunghee Lee	Ewha Womans University	Raspberry like Metamolecules	●
P1702_0410	Chongmin Lee	University of Science & Technology (UST)	Fabrication of magnetite and hematite nanoparticles anchored on crumpled graphene for supercapacitors	●

P1702_0868	Sun Mi Yoon	Korea Institute of Science and Technology (KIST)	Nanostructured Polycarbonate for Robust Transparency and Anti-fogging by Control of Self-masking Metallic Clusters	●
P1702_0555	Intae Son	Myongji University	Fast-switching liquid crystal device fabricated by photopolymerization of nanoscale self-assembled alignment layer of trifunctional reactive amphiphiles	
P1702_0563	Yong-Jae Kim	Korea Advanced Institute of Science and Technology (KAIST)	Single step fabrication of thin film composed of self-assembled P3HT nanowires on water substrate	
P1702_0571	Chunho Kim	Myongji University	Fabrication of vertically aligned liquid crystal devices using nanoscale self-assembled alignment layers of photoluminescent pyrene derivatives	
P1702_0624	Seunghun Lee	Korea Institute of Materials Science (KIMS)	Self-Organized Nanostructures on Polymers by means of Ion Beam Irradiation	
P1702_0089	Tae Won Yuk	KOREATECH	Manufacture of two dimensional electrodes by Transition metal Ditellurides which have High electric conductivity and Transparent properties	●
P1702_0147	Geun Chul Park	Sungkyunkwan University	Influence of annealing temperature on morphology and photocatalytic performance of ZnO nanorods	●
P1702_0148	Yongwoo Lee	Kookmin University	High-performance, ink-jet printed 99% semiconducting carbon nanotube transistors with enhanced contact interfaces	
P1702_0150	Jinsu Yoon	Kookmin University	Carbon nanotube transistor on 3-D printed polyvinyl alcohol (PVA) substrate for transient electronics	
P1702_0153	Christine B. Hatter	Drexel University	2D Transition Metal Carbide/Nitride (MXene) Fillers for Enhancing Electromagnetic Interference Shielding and Mechanical Properties of Nanocomposites	●
P1702_0209	Wisanu Pecharapa	King Mongkuts Institute of Technology Ladkrabang	Effects of annealing temperature of seeding layer on physical and morphological structure of Ga/F co-doped ZnO nanostructures	
P1702_0216	Sue In Chae	Seoul National University	Colloidal Synthesis of Molybdenum Disulfide Nanosheets for Nonvolatile Resistive Memory Device	●
P1702_0229	Jimin Lee	Hanyang University	Synthesis and Magnetic properties of Samarium-Cobalt Nanowires : A Novel structure based on Electrospinning	●
P1702_0249	Jeen Moon Yang	Yonsei University	Oxidation and Metallization Mechanism of Silicon 1D and 2D Nanostructures	●
P1702_0264	Dongwan Kim	Inje University	Influence of annealing temperature on morphological and temperature-dependence photoluminescence properties of ZnO nanorods	●
P1702_0300	Wooseong Jeon	Inje University	Effect of electric current on oxidation of Zn films to ZnO nanostructure by electrodeposition method	●
P1702_0360	Hong Seok Lee	Chonbuk National University	Enhancement of optical properties in asymmetric CdTe/ZnTe double quantum dots on Si substrates	

P1702_0363	Jong Won Choi	Sungkyunkwan University	Effect of Annealing Temperature on Electrical Property of Hydrothermally-Grown ZnO Nanorod/p-Si Heterojunction diodes	
P1702_0367	WonTae Kang	Sungkyunkwan University	Direct Growth of p-Doped WSe ₂ Monolayer by Selenium-Phosphorus substitution	
P1702_0827	Sun Young Choi	Chungbuk National University	Effect of Nb atoms on chemical sensing property of MoSe ₂ layered nanomaterials	
P1702_0852	Ho Sun Shin	Korea Research Institute of Standards & Science (KRISS)	Photo-induced thermoelectric properties of InAs nanowires	●
P1702_0550	Yu Hyeon Jeong	Korea Univisity	Topological gap states of a rectangular armchair ribbon in a staggered potential	
P1702_0875	Dinsefa Mensur Andoshe	Seoul National University	A p-type silicon based photoelectrode with antireflective and passivation layer of solution processed titanium dioxide nanorods: Wafer-scale synthesis of stable and efficient photocathode for	
P1702_0708	Min Ui Park	University of Suwon	Fabrication Process of Bilayer Graphene/PEDOT:PSS nanocomposite for transparent conductive electrode.	●
P1702_0730	Yeong-Ho Cho	Seoul National University	The effect of bilayer period of atomic layer deposition on the microstructure, crystallinity and electrical properties of In-Zn-O films	
P1702_0761	Jungmo Kim	Korea Advanced Institute of Science and Technology (KAIST)	Effective Strategy for Exfoliation of High quality Graphene Flakes From Ternary Graphite Intercalation Compound	●
P1702_0843	Junghoon Oh	Inha University	Production of two-dimensional oxidized carbon nitride for cell-imaging application	
P1702_0879	Sunghee Park	Inha University	The Metal-Free Photocatalyst composed of Graphite Oxide and Oxidized Carbon Nitride nanodots: Their Enhanced Performances and production	
P1702_0913	Hyeji Lee	Gwangju Institute of Science and Technology (GIST)	Raman analysis of the doping induced by a metal overlayer on a graphene	●
P1702_0919	Yoo Been Lee	Sookmyung Womens University	Layer Control of WS ₂ Films via Sulfurization of W Film Deposited by Atomic Layer Deposition	●
P1702_0926	Seung Jun Yang	University of Seoul	Surface strain analysis on buckled MoSe ₂ thin films grown by molecular beam epitaxy	
P1702_0968	Gyuri Kim	Sookmyung Womens University	Fabrication of Patterned Polymer Nanopillar Arrays by Nanoimprint Lithography	●
P1702_0982	Sungsu Kim	Inje University	Effects of precursor concentrations on the structural, optical, and ultraviolet photoresponse properties of ZnO nanorods grown by hydrothermal method	
P1702_0985	Euije Jo	Inje University	The effect of pH on the morphological and optical properties of ZnO nanorods grown by using hydrothermal methods	

P1702_0159	Simeon Gilbert	University of Nebraska-Lincoln	Cyclodextrin-carbon nanotube composites for fluorescent detection of cholesterol	●
P1702_0169	Hanuk Lee	Hanyang University	Application of iron-based nanotube as Z-scheme photocatalyst under simulated solar light	●
P1702_0220	Gyu-Dam Lim	Hanyang University	Thermal Shielding Performance of Copper Sulfide Nanoparticle Silicone Composite Using Near Infrared Absorption Property	
P1702_0221	JinHyeon Kim	Hanyang University	Improvement of Thermal Conductivity by 3 - Dimensional percolation Microstructure and Silane Coupling Agent of h-BN / PMMA Composites.	●
P1702_0239	Hye-Ran Kim	Hanyang University	Adsorption of ionic compounds with chitosan modified magnetic cored dendrimer for the decontamination	●
P1702_0278	Younghwan Kwon	Daegu University	Mechanical and thermal insulation properties of porous silica/polyurethane composites	
P1702_0290	Suk Won Yoon	Gachon University	NiO-Fe ₂ O ₃ /graphene based 3D macroporous electrocatalyst for hydrogen evolution using dark fermented effluent in microbial electrolysis cell	●
P1702_0295	Kang Dong Ho	Gachon University	A nanocomposite anion conducting membrane based on poly(phenylene oxide)/1, 4-diazabicyclo[2.2.2]octane functionalized graphene oxide and cellulose for fuel cell application	●
P1702_0305	Hyun-Kyung Kim	Hanyang University	Adsorption of lead and cadmium onto magnetic-cored dendrimers at different pH conditions	●
P1702_0341	Hyunuk Kim	Korea Institute of Energy Research (KIER)	Hybrid inorganic nanosheets and metal-organic framework for efficient photocatalytic water splitting	
P1702_0343	So Eun Jeon	Changwon National University	Structural and magnetic properties of nanocrystalline Mn-Ni powders prepared by ball-mill method	●
P1702_0345	Bulgan Tsedenbal	Changwon National University	Investigation of the optical and magnetic properties of α -Fe ₂ O ₃ flower like particles prepared by a simple one-pot polyol method	
P1702_0370	Huidong Qian	Korea Institute of Materials Science (KIMS)	Phase transformations in rare earth element free magnet of Mn-Al powders prepared by gas atomization	
P1702_0375	Jae Young Lee	Keimyung University	Analysis of CO ₂ Adsorption Characteristics of Activated Carbon Loaded with Alkali and Alkaline Earth Metal	
P1702_0877	Yunseok Shin	Inha University	N-doped graphene oxide anchored with [Co(acac) ₂] as electrocatalyst for oxygen reduction reactions	
P1702_0878	SAEROM OHN	Inha University	Synthesis and activities of heterogeneous electrocatalyst for high-performance fuel cells and metal-air batteries	
P1702_0880	Dawoon Jang	Inha University	The Electrocatalytic Effect of KOH on the Oxygen Reduction Reaction and Chemical Structure of Chemical Modified Reduced Graphene Oxide Materials.	

P1702_0881	Dong-gyu Lim	Inha University	The Chemical environments and the electrocatalytic performance of N-doped reduced graphene oxides using a solution process with ammonium hydroxide and thermal treatment	
P1702_0882	Gilsoo Park	Inha University	The Novel production of FeOOH/reduced graphene oxide hybrids and their enhanced performance for oxygen reduction reaction	
July 14(Fri.)				
P1702_0247	Yeonwoo Jeong	Chungbuk National University	Polyphenol-Mediated CaCO ₃ Mineralization for Surface Engineering	●
P1702_0545	Seunghyeon Baek	Pohang University of Science and Technology (POSTECH)	Hierarchical structure with highly durable non-wetting properties in dynamic and underwater conditions	●
P1702_0626	Sunghoon Jung	Korea Institute of Materials Science (KIMS)	Enhanced outcoupling efficiency of organic light emitting diodes with textured polymer substrate	
P1702_0007	Duck-Hyun Kim	Catholic University of Daegu	Photopolymerization and characterization of dental resin cement containing nano material	
P1702_0051	Sora An	Gachon University	Hydrogel-Based Recyclable Photocatalysts for Wastewater Treatment	
P1702_0102	Muhammad Sohail	University of Science & Technology (UST)	High Crystalline NH ₂ -MIL-125 MOF Synthesis and its Promising S-Shaped Water Isotherms	●
P1702_0136	Min Gyu Kim	Pusan National University	The microstructural evolution and electrochemical property of HRDSRed Mg-6Al-1Zn-X(Ti, Ca) alloys	
P1702_0138	Chang-kook Jang	Youngyeil precision	A study on the thermal properties of the thermal compounds including various metal oxide nanoparticles	●
P1702_0141	Si-hoon Jang	Korea Institute of Industrial Technology (KITECH)	Synthesis and characterization of polyimide-halloysite nanotubes nanocomposite materials	
P1702_0142	Yang No Yun	Korea Institute of Energy Research (KIER)	Fabrication of Mixed Matrix Membrane based on MOP and XLPEO for CO ₂ Separation	●
P1702_0143	Hyung-Jin Choi	Chungnam National University	High Performance Eco-friendly Antibacterial Activity films using Al doped ZnO based Thin Films	
P1702_0145	Suhyun Kim	Korea Research Institute of Chemical Technology (KRICT)	Mechanical and thermal properties of epoxy composites containing zirconia impregnated halloysite nanotubes with different loadings	●
P1702_0178	Hee-Man Yang	Korea Atomic Energy Research Institute (KAERI)	Facile synthesis of magnetic hydrogel beads for the removal of radioactive cesium from water	
P1702_0182	Hassan Anwer	Hanyang University	Fabrication of reduced graphene oxide photocatalyst on stainless steel anotubes.	

P1702_0218	JiHo Eom	Chungnam National University	The Study on LDH Fabrication Method to Reduce Atmospheric Carbon Dioxide Concentration using Water	
P1702_0120	Young Jun Kwak	Chonbuk National University	Development of an Mg-Based Alloy with High Hydriding and Dehydriding Rates and a Large Hydrogen Storage Capacity by Adding TaF5	
P1702_0134	Eun Ho Choi	Chonbuk National University	Improvement of Hydrogen-Storage Characteristics of Magnesium Hydride by Grinding with Sodium Alanate and Transition Metals in Hydrogen Atmosphere	
P1702_0155	Jun Kim	Koera University	Phase transformation of Cu _{1.94} S hexagonal nanoplate via consecutive cation exchange with Au and Ag toward enhanced plasmonic properties	
P1702_0170	Sung Hyuk Lee	KOREATECH	Effect of cooling rates on mechanical properties of metallic glasses.	●
P1702_0192	Bo Ram Lee	Korea Institute of Industrial Technology (KITECH)	Manufacturing and characterization of poly(lactic acid) using list polymerization reactor	
P1702_0211	Prasopporn Junlabhut	Rajabhat Rajanagarindra University	Effect of metal (Mn, Co, Zn, Ni) doping on structural, optical and photocatalytic properties of TiO ₂ nanoparticles synthesized via sonochemical process	●
P1702_0244	Seock-Jin Yoon	Korea National University of Transportation	Synthesis of metal nanoparticles based on mopholinium ionic liquid	●
P1702_0307	Dae-Han Kim	Korea Research Institute of Standards & Science (KRISS)	Synthesis of Spherical Prussian Blue with High Surface Area by Acid Etching	
P1702_0346	Soolin Lee	Hanyang University	Theoretical and experimental comparison of functional group number at different magnetic cored dendrimer generations	●
P1702_0357	Bora Ye	Korea Institute of Industrial Technology (KITECH)	Advanced photocatalytic degradation of air pollutants by using TiO ₂ -graphene composite photocatalyst	●
P1702_0361	Seung Hoon Baek	Chung-Ang University	Modification of a facile hydrothermal method for upconversion enhancement of NaYF ₄ : Yb ³⁺ /Er ³⁺ , UCNPs and exploring the hidden dimensions	
P1702_0369	Su Guan Jang	Keimyung University	Enhanced Photocatalytic degradation of methylene blue over CuO/TiO ₂ composite hollow spheres under visible light irradiation	
P1702_0421	Ri Yu	Engineering Ceramic Center	Physical Characterization of Core/Yolk shell α -Fe ₂ O ₃ nano capsules	
P1702_0072	Vu K.H. Bui	Gachon University	One-pot synthesis of magnesium aminoclay-titanium dioxide nanocomposites for photocatalytic performances	
P1702_0428	Nguyen Huu Vinh	Nguyen Tat Thanh University	Preparation and characterization new nanostructure Ti _{0.7} Ir _{0.3} O ₂ via low temperature hydrothermal process	
P1702_0429	Tran Van Thuan	Nguyen Tat Thanh University	Advanced nanostructure Ti _{0.7} W _{0.3} O ₂ prepared via low temperature hydrothermal process and sol-gel process	

P1702_0430	Dinh Thi Thanh Tam	Nguyen Tat Thanh University	Core-shell Fe@SiO ₂ nanoparticles synthesized via modified Stober method for high activity in Cr (VI) reduction	
P1702_0431	Tran Duong Thien Loc	Nguyen Tat Thanh University	SYNTHESIS AND CHARACTERIZATION OF ADVANCED NANOMATERIAL TIN DOPED INDIUM OXIDE (ITO) AND Pt/ITO NANOCATALYSTS VIA NONAQUEOUS SOL-GEL METHOD	
P1702_0432	Tran Duong Thien Loc	Nguyen Tat Thanh University	Nanostructured Ti _{0.7} Mo _{0.7} O ₂ as Efficient Non-carbon Support for PtRu Catalysts in Direct Methanol Fuel Cells	
P1702_0417	Bin Shao	Chongqing University of Science & Technology	Effect of Cation addition on the Microstructure and Magnetic Properties of Nickel Nanocomposites Prepared by Hydrothermal Method	●
P1702_0425	Jo HyunJun	Dongguk University	Synthesis of Zinc Oxide and Organic Materials Generates Nanoparticles and Confirms UV Blocking Effect	
P1702_0851	Ji Hye Park	Korea Research Institute of Standards & Science (KRISS)	Template-free electrochemical deposition of metal nanoparticles	●
P1702_0690	Hyeongdo Jeong	Chosun University	Effect of dispersion agent on the synthesis of nano-sized 3Y-TZP powder by the homogeneous precipitation	
P1702_0748	Soo Hyun Park	Gachon University	Facile synthesis of cubic hematite with gold layer and its photocatalytic activity	●
P1702_0824	Kyung Hyun Kim	Dongsan Tech.	Study on the MHD Process for the Microstructure Refinements in Casting High-Strength Aluminum Alloys Al-Zn-Mg-Ni System	
P1702_0850	Joung-Hyun La	Korea Aerospace University	The morphological evolution of zinc oxide nanocrystals via plasma discharge process in solution	●
P1702_0895	Hannah Kwon	Ewha Womans University	Enhanced Visible Light Active Photocatalytic Activity of Carbonized TiO ₂	●
P1702_0964	Yuna Ha	Konkuk University	Scaling-up synthetic method of multiple surface-enhanced Raman scattering labeled nanoprobe with high reproducibility and long-term stability	●
P1702_0977	Taehun Shin	Sejong University	Synthesis of Highly Crystalline Carbon Nanotubes by Electric Arc Discharge and Their Field Emission Characteristics	●

NANO KOREA 2017 Poster Presentation Schedule

TS03. Nanofabrication & Measurement

· Set-up : July 12(Wed.) - July 14(Fri) 08:00-08:45

· Presentation : July 12(Wed.) - July 14(Fri.) 11:15-12:15

· Tear-down : July 12(Wed.) - July 14(Fri.) 16:00-17:00

· Best Poster presentation : July 14(Fri.) 13:15-14:15

Presentation No.	Presenter	Affiliation	Title	Award Participation
July 12(Wed.)				
P1703_0013	Zhao Yao	Kwangwoon University	Ultra-smooth nano-scale BaTiO ₃ thin films by aerosol deposition method for high-k capacitor application	●
P1703_0206	Shinae Hwang	Hallym University	Microscale silicon membranes with highly ordered pyramidal structures for the filter element	●
P1703_0279	Dongha Tahk	Seoul National University	Single Cell Trapping and Analysis with Fast and Large Area Fabrication of Through-hole Membrane by Novel Microfluidic Chip System	●
P1703_0381	Donglin Guo	Chongqing University of Science & Technology	The effect of Magnetic Interface Coupling on Magnetic Property of CdS Nanomaterial	●
P1703_0419	Chunhong Li	Chongqing University of Science & Technology	Effect of heat treatment and grinding on the MnBi magnetic materials	●
P1703_0799	Yubing Zhang	Changwon National University	Effect of shot peening on microstructural evolution of 500-7 ductile cast iron	
P1703_0845	Jaekyun Kim	Hanyang University	Investigation of inter-nanowire spacing in the nanowire array by the electric field-assisted assembly	
P1703_0846	U Hyeok Choi	Hanyang University	Precise placement of metallic nanowires on a substrate by electric fields	
P1703_0876	Inki Kim	Pohang University of Science and Technology (POSTECH)	Large-scale fabrication of multilayer dielectric gratings for multiple fiber laser beams combining	●
P1703_0908	Jeong Ho Ryu	Korea National University of Transportation	Single Crystal Growth of Superalloys For Gas Turbine Blade	
P1703_0918	Junghwan Kim	Hanyang University	New concept of EUV mask protection from contamination : Shielded Reticle Mini Environment	●
P1703_0984	Je Kang	Sungkyunkwan University	Fabrication and electrical measurements of reduced graphene oxide papers	●
P1703_1019	Naseem Abbas	Chung Ang University Seoul	Fabrication of a vertical silicon nanostructure and porous top electrode using glancing angle deposition for gas sensor application	●

P1703_1057	Min-Ah Yoon	University of Science & Technology (UST)	Estimation of Surface Energy on CVD Graphene onto Substrates	●
P1703_0217	Soongeun Kwon	Korea Institute of Machinery and Materials (KIMM)	Direct laser ablation of highly conductive reduced graphene oxide for in-plane microsupercapacitors	
P1703_0237	Woong-Ki Choi	Korea Institute of Carbon Convergence Technology (KCTECH)	Effect of Improving Interfacial Bonding Strength of Carbon Fibers and NBR on Residual Stress and Mechanical Properties of Carbon Fibers/NBR Composites	
P1703_0351	Geuntae Yun	Korea Advanced Institute of Science and Technology (KAIST)	Dual-scale omniphobic surface with high stability inspired by springtail	●
P1703_0378	Hyo In Lee	Inha University	The one-pot synthesis of reduced graphene oxide/anatase titanium dioxide composites for photocatalytic degradation of methylene blue	●
P1703_0416	Min-Joo Kang	Inha University	Influence of surface-treated silica for thermal stability and mechanical properties in silicone matrix composites	●
P1703_0467	Dong-Hyeon Ko	Pohang University of Science and Technology (POSTECH)	Continuous-Flow Synthesis of Drug Compounds with Flue Gas CO ₂ Capture in Superomniphobic-Nanostructure-Embedded Microsystems	●
P1703_0475	Xinghao Hu	Daegu Gyeongbuk Institute of Science & Technology (DGIST)	An on-chip micromagnet frictionometer based on magnetically driven colloids for nano-bio interface	●
P1703_0561	Eun-Hwan Jang	Korea Institute of Machinery and Materials (KIMM)	Scalable Thickness of Quantum-dots Layer on Si Photodiodes for UV Detection	●
P1703_0349	Eun Mi Kim	Korea Institute of Industrial Technology (KITECH)	Effect on Electro-optical Properties Depending on Substrate Temperature of NiInZnO Thin Films Prepared by RF Magnetron Sputtering.	
P1703_0566	Hyun Jeong	Korea Institute of Machinery and Materials (KIMM)	Optical and electrical characterization of vertical heterostructure based on two-dimensional nanomaterials for photo-electric applications	●
P1703_0592	Boyeon Hwang	Korea Institute of Machinery and Materials (KIMM)	Fabrication of Flexible Plasmonic Color Filter for Large-area using Nanotransfer Printing Process	
P1703_0629	Sohee Cheon	Korea Institute of Machinery and Materials (KIMM)	Transfer printed template-assisted fabrication of vertically aligned ZnO nanorods	
P1703_0681	SangHo Shin	Korea Institute of Machinery and Materials (KIMM)	Transparent Display Using Nanopatterned Quantum Dot Film	●
P1703_0725	Ki Sang Yoo	Korea Institute of Machinery and Materials (KIMM)	Enhancement of physical properties of polarizing films by embedding cellulose nanocrystals and cellulose nanofibrils	
P1703_0839	Moonjeong Bok	Korea Institute of Machinery and Materials (KIMM)	Evaluation of charge behavior of organic semiconductor devices with nanopatterns	●
P1703_0477	Seunghyun Moon	Seoul National University	Optimal frequency detection for force gradient measurement of electrostatic force microscopy	●

P1703_0480	Jun-Mo Yang	Hanoi University of Science and Technology	Strain measurement in InGaN/GaN multi-quantum wells using dark-field electron holography	
P1703_0497	Byong Sun Chun	Korea Research Institute of Standards & Science (KRISS)	Magnetic and structural properties of Fe ₃ O ₄ multi-granule nanoclusters	
P1703_0752	Hoang Tung Nguyen	Kyung Hee University	Temperature dependence of the dielectric response and critical point energies of Bi _{1.85} Gd _{0.15} Te ₃	●
P1703_0900	Mallikarjuna Reddy Kesama	Sungkyunkwan University	Optoelectronic and magnetic properties of Mn ²⁺ - modified DNA thin films	●
P1703_0961	Dong Gon Woo	Hanyang University	Development of EUV actinic inspection technique: EUV Scanning Lensless Imaging (ESLI)	●
July 13(Thu.)				
P1703_0088	Gyu Tae Jeon	KOREATECH	The effect of secondary phases is nano-size on shrinkage initiation temperature and shrinkage strength of Al 6061 alloy	●
P1703_0241	Dongjo Seo	Inha University	Crack-free hard chromium plating using pulse-reverse electroplating method on the brass substrate	●
P1703_0439	sang-kon kim	Hongik University	Line-Edge Roughness of 5-nm Pattern in EUV Interference Lithography using Stochastic Simulation	●
P1703_0442	Yeon Bin Choi	Changwon National University	Synthesis and Characterization of Nano-scale Potassium Titanate Whiskers by Thermal Assisted Reaction	●
P1703_0493	Jung-Dae Kwon	Korea Institute of Materials Science (KIMS)	Atomic layer deposited p-type copper oxide thin films and the associated thin film transistor properties	
P1703_0570	ki joong lee	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Fabrication of metal nano-structures using reverse nanoimprint lithography	
P1703_0373	Kejian Li	Chongqing University of Science & Technology	Effect of Plastic Deformation on the Microstructure and Magnetic Properties of 347 Stainless Steel	●
P1703_0539	Jun-Ho Jeong	Korea Institute of Machinery and Materials (KIMM)	Effects of Morphology and Properties of Silver Nanowires Fabricated via Nanoimprint and E-beam Evaporation	●
P1703_0580	Young Joong Choi	Korea Institute of Ceramic Engineering and Technology (KICET)	Hierarchical nanoscale multi-material arrays for resistive switching memory devices	
P1703_0593	SoonHyoung Hwang	Korea Institute of Machinery and Materials (KIMM)	Fabrication of Metasurfaces by One-Step Nano Transfer Process	
P1703_1004	Do Kyung Lee	Catholic University of Daegu	Wet chemical spray etching of Cu layer for the finer pitch chip-on-film packages applications	

P1703_1031	Zhi-Jun Zhao	Korea Institute of Machinery and Materials (KIMM)	Multi-layers metallic nanostructure fabricated via nanoimprint lithography and heat-welding technology	●
P1703_0742	Sejeong Won	Korea Institute of Machinery and Materials (KIMM)	Fabrication of submicron-scale graphene ribbons using crack lithography	●
P1703_0955	Yong Ju Jang	Hanyang University	Mechanical and optical properties of graphene composite EUV pellicle	●
P1703_0958	Jung Sik Kim	Hanyang University	Using platinum for absorber stack of attenuated phase shift mask in high-numerical aperture EUVL	●
P1703_1018	Eun-chaee Jeon	Korea Institute of Machinery and Materials (KIMM)	Nanofabrication of brittle materials using single crystal diamond tool	●
P1703_1042	Yun Hwangbo	Korea Institute of Machinery and Materials (KIMM)	Polymeric Residue-Free Freestanding Graphene via Perforated Templates	●
P1703_0618	Sejong Seong	Hanyang University	Wide thermal annealing effects on ITO thin films	●
P1703_0721	Daekyeong Jung	University of Science & Technology (UST)	Selective μ -LED Transfer by Laser Scanning System with a Flexible Curved Stamp	●
P1703_0754	Taeyeon Kim	Pusan National University	Patterning nanostructures with plasmonic field at different z-axis position	
P1703_0975	Sungjin An	Dankook University	Study of self-powered Organic Field Effect Transistor with Microbial Battery on carbon nanomaterial	●
P1703_0291	Jihoon Lee	KOREATECH	Analysis of meniscus deformation during Nano Imprint Lithography	
P1703_1011	Seung Hang Shin	Changwon National University	Comparison of Surface Properties Due to Difference In Imprint Process of AAO	●
P1703_1013	Yeonho Jeong	Changwon National University	A Study on Change of Surface condition follows Various Surface Treatments	●
P1703_1014	Choi Hyun Min	Changwon National University	AAO template pattern Replication using various Resins	●
P1703_1056	Chan Kim	University of Science & Technology (UST)	Effect of Adhesive Thickness on Quality of Transferred Graphene	●
P1703_1058	Yeon-Woo Jeong	University of Science & Technology (UST)	Adhesion Characteristics of the Solder Paste for LED Transfer Process	●
P1703_1015	Yong geun Kim	Koera University	Study on direct transfer characteristics of graphene using micro-contact printing	●

P1703_1047	Joo-Yun Jung	Korea Institute of Machinery and Materials (KIMM)	Fabrication of the complementary plasmonic nanostructures as biosensors	
P1703_1048	Jaeyeon Yu	Ulsan National Institute of Science and Technology (UNIST)	Active Nonlinear Metasurfaces for Broadband Second-Harmonic-Generation	●
P1703_0575	Juhee Ko	Sogang University	Hydrogel tip attached quartz tuning fork by using a mold fabricated from an electrochemically etched tungsten wire	●
P1703_0449	Yilong Zhang	Chongqing University of Science and Technology	Effect of Heat Treatment on the Microstructure and Corrosion Resistance of 13Cr Martensitic Stainless Steel	●
P1703_0848	Young Woong Kim	Hanyang University	Improved inspection stability of coherent scattering microscopy	●
July 14(Fri.)				
P1703_0795	Houyu Ma	Changwon National University	Effect of shot peening on oxidation behavior of S304H steel	●
P1703_0796	Liming Xu	Changwon National University	Effect of Ultrasonic Shot Peening on the microstructural evolution of pure Al	
P1703_0797	Sijia Liu	Changwon National University	Effect of ultrasonic shot peening on microstructure and phase transformation of duplex stainless steel S32750	
P1703_0803	Kyeongae Nam	Changwon National University	Microstructural evolution of Super304H due to shot peening and post-annealing	●
P1703_1001	Joongeok Kim	Yonsei University	Design and fabrication of label free guided mode resonance(GMR) protein sensor with nanograting structure	●
P1703_1009	Deok Rok Hwang	Catholic University of Daegu	Effects of SiO ₂ nano-coating on the surface of plasma electrolytic oxidation of magnesium alloy	
P1703_0927	Jaehong Yoon	Incheon National University	Powder Coating with Ru and RuO ₂ by Atomic Layer Deposition	●
P1703_0101	Sang Chul Lim	Gumi Electronics & Information Technology Research Institute	Detection characteristics of biosensor circuits based on p-type CNTs thin-film transistors	●
P1703_0297	Eun-Wook Jeong	Korea Institute of Materials Science (KIMS)	Control of wetting characteristics on flexible substrate for fabrication of fine metal electrode	
P1703_0494	Seong Gwon Jeon	Korea Institute of Materials Science (KIMS)	Durable antireflective polymer with nanoparticle array fabricated by plasma-enhanced chemical vapor deposition system	
P1703_0680	YunWoo Lee	University of Science & Technology (UST)	Fabrication and characterization of dissolving microneedles made of novel biomaterial	

P1703_0830	Saeromi Kim	Korea Institute of Science and Technology (KIST)	PERIODIC NANO-TEXTURED PATTERNS ON POLY(HEMA) BY FEMTOSECOND LASER ABLATION TO REGULATE CELL BEHAVIORS	●
P1703_0906	Jaehyuck Jang	Pohang University of Science and Technology (POSTECH)	Cross-shaped aluminum nanorod arrays for wide-gamut and tunable plasmonic color filters	●
P1703_0910	Sanghyun Yoo	Sungkyunkwan University	Mechanical characteristics of pristine and functionalized free-standing DNA thin films	●
P1703_0932	Hyun Gu Kim	Incheon National University	Lamination of Metal Oxides to Control Color of Electronic Textiles by Atomic Layer Deposition	●
P1703_1052	Sung-Ho Shin	Chungnam National University	Triboelectric output modulation via chemical surface functionalization using aminated- and halogenated-molecules	●
P1703_0087	Sangmin An	Seoul National University	Nanoscale scratching using a pulled nanorod-combined atomic force microscope system	
P1703_0103	Vu Thi Kim Oanh	Hanyang University	Band offset and defect states of InP/InGaAs/InP heterostructures by current-voltage characteristics and deep level transient spectroscopy	
P1703_0326	Seon Hee Kim	Korea Institute of Science and Technology (KIST)	New analytical method of soft contact lenses using surface analysis technique	
P1703_0362	Yun Chang Park	National Nanofab Center	Atomic Configuration Analysis and Single Atoms Imaging by Scanning Transmission Electron Microscopy	

NANO KOREA 2017 Poster Presentation Schedule

TS04. Nanobiotechnology & Nanomedicine

· Set-up : July 12(Wed.) - July 14(Fri) 08:00-08:45 · Presentation : July 12(Wed.) - July 14(Fri.) 11:15-12:15
 · Tear-down : July 12(Wed.) - July 14(Fri.) 16:00-17:00 · Best Poster presentation : July 14(Fri.) 13:15-14:15

Presentation No.	Presenter	Affiliation	Title	Award Participation
July 12(Wed.)				
P1704_0018	Sungi Kim	Seoul National University	Optokinetically encoded nanoparticles for multiplexed miRNA detection strategy	●
P1704_0037	Jisun Ki	Yonsei University	Positive SERS Assay based Reverse Hairpin Beacon for Influenza Virus Detection	●
P1704_0050	Hyun-Ouk Kim	Yonsei University	A Host Cell Mimic Polymersome for Rapid Detection of Highly Pathogenic Influenza Virus via a Viral Fusion and Cell Entry Mechanism	●
P1704_0071	Timur Sh. Atabaev	Seoul National University	Gadolinium oxide nanoparticles: a bimodal nanoprobe for T1-weighted magnetic resonance and optical imaging	●
P1704_0104	Yong Ju	Korea Advanced Institute of Science and Technology (KAIST)	Development of Novel RNA Isothermal Amplification Method That Is Based on NASBA controlled by Nicking Enzyme	●
P1704_0144	Seungmin Han	Yonsei University	Liposomal probes for monitoring endogenous microRNA during adipogenesis by exocytosis-mediated signal secretion, not by exosome	●
P1704_0219	Yeonkyung Park	Korea Advanced Institute of Science and Technology (KAIST)	Colorimetric detection of miRNA by split G-quadruplex DNAzyme and toehold-mediated strand displacement circuit	●
P1704_0273	Chunghyun Lee	Gachon University	Label free simple detection of restriction endonuclease activity by using DNA-templated silver nanocluster	
P1704_0276	Jong-Woon Ha	Pusan National University	Random copolymers with low surface energy composed of perfluorinated styrene for anti-biofouling	
P1704_0445	Chaedong Lee	Seoul National University	Preparation of amine-functionalized and angular-shaped superparamagnetic iron oxide nanoparticles in one-pot synthesis for MR/fluorescence bimodal imaging applications	●
P1704_0675	Seungki Lee	University of Seoul	pH-responsive smart cargo releasing "hollow" mesoporous silica nanoparticles	●
P1704_0358	Shinyoung Kang	Korea Advanced Institute of Science and Technology (KAIST)	Simple Capture and Identification of Small-molecule binding Proteins using Magnetic Bead assisted Dual-Probe Oligo System	●
P1704_0479	Kyeonghye Guk	University of Science & Technology (UST)	Label-free nanoprobe for antibody detection through antibody catalyzed water oxidation pathway	●

P1704_0823	Kkotchorong Park	Korea Advanced Institute of Science and Technology (KAIST)	Efficient Transportation of Biomolecules to Living Cells by Novel Metal Nanowire	●
P1704_0870	Eun-Kyung Lim	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Colorimetric detection of influenza A (H1N1) virus by a peptide-functionalized polydiacetylene (PEP-PDA) nanosensor	
P1704_0980	Jawon Shin	Korea Institute of Science and Technology (KIST)	Development of a highly reactive nanosensor toward hydrogen sulfide	
P1704_1044	Dan Heo	Yonsei University	Albumin-conjugated T1 Contrast Agent for the targeted MR imaging of breast cancer	●
P1704_1045	Minhee Ku	Yonsei University	Aptamer-modified Magnetic Nanoplatfrom for Targeted MR imaging of ErbB2-overexpressing Cancer	
P1704_0355	Woo Seok Jinn	Yonsei University	Biomolecule Responsive Diffraction Grating Sensor Using Antibody Conjugated Hydrogel	●
P1704_0537	Sihwa Joo	Korea Research Institute of Standards & Science (KRISS)	A single-molecule study of mutual relation between the vaccinia virus E3L protein and Z-DNA by magnetic tweezers	
P1704_0659	Seongjae jo	Koera University	Detection of copper ions in blood-like environment using Localized Surface Plasmon Resonance	●
P1704_0676	Chang Min Jin	University of Seoul	Solution-State Surface-Enhanced Raman Scattering Maximized by Spontaneously Formed 3D Nanophotonic Wells	●
P1704_1068	Gibok Lee	Gwangju Institute of Science and Technology (GIST)	Synthesis of upconversion nanoparticles (UCNPs) for multicolor imaging	
P1704_1069	Sanghun Yeou	Pohang University of Science and Technology (POSTECH)	Dynamics of highly bent dsDNA investigated by observing distance in nanometer scale	
P1704_1070	Sora Yang	Pohang University of Science and Technology (POSTECH)	Direct visualization of the dynamics RNA polymerase in a living bacterial cell by super-resolution microscopy	
P1704_1071	Kyujin Shin	Gwangju Institute of Science and Technology (GIST)	Distinct mechanisms for the upconversion of NaYF ₄ : Yb ³⁺ , Er ³⁺ nanoparticles revealed by stimulated emission depletion	
P1704_1072	Dong-Kyun Kim	Pohang University of Science and Technology (POSTECH)	Probing the sequential process of endocytosis in a living cell by single-protein tracking	
P1704_1073	Yeongchang Goh	Gwangju Institute of Science and Technology (GIST)	Multiplexed 3D Tracking of Single Upconversion Particles (UCNPs) in Living Cells	
P1704_1074	Hyunwoo Kim	Korea Research Institute of Chemical Technology (KRICT)	Nanogap Enhanced Raman Scattering and its Applications	
P1704_1075	Jongwoo Kim	Korea Research Institute of Chemical Technology (KRICT)	Multiplexed Wide-Field Raman Bio-Imaging using Nanobridged Nanogap Particles	

P1704_0821	Gayoung Eom	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Sensitive and Specific Detection of Telmoerase Activity using Au Nanoparticles-deposited Au Nanowire SERS Sensor	
P1704_0915	Ahreum Hwang	Korea Advanced Institute of Science and Technology (KAIST)	Well-Ordered Troponin Aptamers on Ultraflat, Ultraclean Gold Nanoplates for Early-Diagnosis of Acute Myocardial Infarction	●
P1704_0943	Yunjeong Lee	University of Seoul	Sponge-like 3D Porous Nanoplasmonic Structures for Surface-Enhanced Raman Spectroscopy	●
July 13(Thu.)				
P1704_0190	Minho Lee	Chung-Ang University	The bacteria separation from soil sample using zinc oxide/graphene oxide coated micro beads	
P1704_0194	Hyun Jin Yoo	Chung-Ang University	The short-length DNA separation from blood sample using graphene oxide coated micro beads	
P1704_0316	Jeonghyo Kim	Pusan National University	Facile fabrication of Au nanoparticle films onto diverse substrate for bioassay platforms	
P1704_0403	Moo-Kwang Shin	Yonsei University	Facile immobilization of His-tagged TEV proteases using spiky nickel silicate covered magnetic nanoclusters	●
P1704_0474	Abdurazak Aman	Sungkyunkwan University	Effect of the actin binding protein FLNA on cell traction and shape	●
P1704_0568	Sohee Yoon	Korea Research Institute of Standards & Science (KRISS)	Comparison of Desorption Enhancement Methods in the Low Temperature Plasma Ionization Mass Spectrometry for Detecting Fatty Acids in Drosophila	
P1704_0576	Yong Hun Jung	Koera University	Using EpCAM antibody-conjugated and ethanol-dispersed nanofibers, selectively sensing the circulating tumor cells	
P1704_0603	Sang Yup Lee	KU-KIST Graduate school of Converging Science and Technology	Development of Modified Martini Coarse-Grained Model for Functional Lipid Molecular Assemblies	●
P1704_0628	Sunho Joh	Korea Research Institute of Standards & Science (KRISS)	Nanostructure-assisted Laser Desorption Ionization Mass Spectrometry to Analyze Ethanol Soluble Low-Mass Biomolecules	
P1704_0671	Jae woong Han	Konkuk University	Mouse somatic and germ cell specific toxicity of silver nanoparticles	●
P1704_0672	Jungdae Park	Koera University	Analyses of metabolites extracted in breast cancer cell lines after hormone treatment using time-of-flight secondary ion mass spectrometry	
P1704_0674	Minh Uyen T. Le	Korea University of Science and Techonology	An Investigation of Neurotransmitters in Drosophila melanogaster by Mass Spectrometry Analysis	
P1704_0746	Viet Duc Phung	Gachon University	Gold-silver core-shell nanoparticles as high-performance SERS substrates for detecting dopamine in human serum	●

P1704_0948	Jusang Yang	Koera University	Highly-stable trypsin coatings on magnetic nanofibers for the effective protein digestion	
P1704_0956	Youngjun Ju	Korea University	Antibody-conjugated Polymer Nanofibers for Selective Capture and Culture of EpCAM-positive Cells	
P1704_0972	YoungRak Lee	Koera University	Improved Performance of Enzymatic Biofuel Cells based on Enzyme Stabilization on Polyaniline Nanofibers	●
P1704_0809	Jinchul Ahn	Koera University	Sheathless focusing method using ion concentration polarization on microfluidic device	●
P1704_1046	Junghoon Kim	Yonsei University	Dual modal sensing of HER2 protein by LSPR and SERS based on gold nanorods	●
P1704_0059	Byunghoon Kang	Yonsei University	Sorting various pluripotency of iPSCs via magnetization of nanoclusters in magnetophoresis devices	●
P1704_0151	Uihyun Jung	Sungkyunkwan University	A Flexible 2D MoS ₂ FET-based real-time detection biosensor for point-of-care monitoring	●
P1704_0161	Hannah Pyo	Sungkyunkwan University	Facile Electrical Detection of Streptococcus pneumoniae through Nanoparticle Decoration Method	●
P1704_0213	Junhong Min	Chung-Ang University	Label-free impedimetric sensor for the sensitive detection of Aflatoxin-B1 using polyaniline-Au nanoparticle hybrid based microdisk electrode arrays	
P1704_0733	Ju-Young Byun	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Label-free, in situ detection of cell-free expressed protein using plasmonic nanosensor	
P1704_0798	Jaehoon Kim	Koera University	Displacement-based digitized filling flow by vent control in microfluidic device for signal enhancement of immunoassay	
P1704_1063	Hirak Mazumdar	Sogang University	The microfluidic device for rapid mixing applications	●
P1704_1065	Da eun Lee	Seoul National University	Easy and fast translocation of biomolecules by using multi-nanopore membrane.	●
P1704_0896	Chanyong Park	Sungkyunkwan University	Microfluidic intestine-pancreas co-culture system for a diabetes treatment model	●
P1704_0937	Jeong Moon	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Facile Immobilization of Antibody using Polydopamine and Protein G Mixture: Toward Substrate-Free Influenza Virus Detection	
P1704_0949	Youngkyu Cho	Koera University	Ion concentration polarization based pre-concentration without pH change.	●
P1704_0054	Byeonggeol Mun	Yonsei University	Efficient microRNA delivery system consisting of cholesterol-conjugated micreRNA and pegylated polycationic polymer	●

P1704_0198	Ji Heun Jeong	Konyang University	Protective effect of Poly lactic-co-glycolic acid (PLGA) Nanoparticles Loaded with Erythropoietin Stabilized by Sodium Cholate Hydrate in Focal Cerebral Ischemia Rat Model	●
P1704_0223	Jinyoung Kim	Yonsei University	Porous gold nanoparticle for facile attenuation of Influenza A virus	●
P1704_0233	kim yong han	Konyang University	Therapeutic efficacy of hydrogel-based oral disintegrating film loaded with metformin on high fat diet-associated cognitive decline	●
P1704_0234	An Jong Hun	Konyang University	Growth inhibition of glioma models in vitro and in vivo by controlled release of metformin from cholic acid-functionalized poly(lactic-co-glycolic) acid (PLGA) nanoparticles	●
P1704_0252	Tae Hyeon Kim	Sogang University	Computational analysis of the shear stress in microfluidic device	●
P1704_0339	Jong-Woo Lim	Yonsei University	Poly(amino Acid)/squalene nanocomplex (PA/S-NCs) as efficient vaccine adjuvants for enhancement of Immunogenicity	●
P1704_0538	Huan Yue	Kyungpook National University	Preparation and T1 MR imaging of Dextran-Coated Ultrasmall Gd ₂ O ₃ Nanoparticles	●
P1704_0542	Adibehalsadat Ghazanfari	Kyungpook National University	D-glucuronic acid coated Bi ₂ O ₃ and Yb ₂ O ₃ nanoparticles for Computed Tomography	●
P1704_0543	Shanti Marasini	Kyungpook National University	Relaxometric, Optical and Cell Viability Properties of D-Glucuronic Acid Coated Cr ₂ O ₃ Nanoparticles	●
P1704_0544	Mohammad Yaseen Ahmad	Kyungpook National University	Cyclic RGD (cRGD) coated gadolinium oxide nanoparticles for tumor diagnosis	●
P1704_0546	Sung June Kim	Kyungpook National University	Multi modal imaging of dye-coated gadolinium oxide nanoparticles in biomedical	●
P1704_0547	Xu Miao	Kyungpook National University	Biomedical applications of Poly(acrylic acid) Coated Gadolinium Oxide Nanoparticles	●
P1704_0587	Minsu Han	Yonsei University	Generation of photothermal patterns on PEDOT thin film for cell sheet engineering	●
P1704_0602	Gyeong-Ji Kim	Sogang University	Hederagenin coated nanodrug delivery systems for targeting the prostate xenograft mouse model	●
July 14(Fri.)				
P1704_0073	Eun-Jung Jo	Gwangju Institute of Science and Technology (GIST)	Single-step Luminescence Resonance Energy Transfer (LRET) Aptasensor for Rapid Mycotoxin Detection	●
P1704_0154	Jun Ki Ahn	Korea Advanced Institute of Science and Technology (KAIST)	A new ATP detection method utilizing glucose oxide in glucose meter	●

P1704_0334	Yunho Choi	Korea Advanced Institute of Science and Technology (KAIST)	Fabrication of 3D functionalized porous sponge for efficient isolation of foodborne pathogen	●
P1704_0337	Bhagwan S Batule	Gwangju Institute of Science and Technology (GIST)	One step detection of food pathogens through nicking endonuclease-assisted strand displacement amplification	●
P1704_0472	Minsu Kim	Yonsei University	Hydrogel microarray based sensitive paraoxon biosensing utilizing surface enhanced fluorescence(SEF)	
P1704_0640	Minwoo Kim	Koera University	The review of detecting ultra-sensitive nano toxic ions using various methods	●
P1704_0642	Woong Kim	Koera University	High-sensitive detection of Aluminum ions via visually improved Kelvin probe force microscopy using gold nano-particle	●
P1704_0726	Jieun Sim	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Proximity-HCR (Hybridization Chain reaction) biosensor for detection pathogens	●
P1704_0729	Yun Ju Sung	Korea Research Institute Bioscience and Biothchnology (KRIBB)	A fluorescent immunomagnetic system for the rapid, sensitive and selective detection of Staphylococcus aureus	
P1704_0822	Haneul Yoo	Seoul National University	Magnetically-Refreshable Receptor Platform Structures for Reusable Nano-biosensor Chips	●
P1704_0008	Min-Jae Lee	Catholic University of Daegu	Preparation and characterization of novel dental material with high shear bond strength	
P1704_0076	Jun Young Lee	Korea Atomic Energy Research Institute (KAERI)	Damage of nanoparticles and radiation stress on erythrocyte	●
P1704_0266	GeonHui Lee	KU-KIST Graduate school of Converging Science and Technology	Networked concave microwell improves the functionality of 3D hepatocyte spheroids	●
P1704_0338	Jun-Young Park	Gachon University	Anti-cancer efficacy of paclitaxel-carbon nanotube drug on small cell lung cancer	●
P1704_0402	Sang-Woo Kim	Gachon University	Mitochondria membrane abruption and destroying non-small cell lung tumor cells using PEG coat carbon nanotube-ABT737 nanodrugs	●
P1704_0404	Geunseon Park	Yonsei University	Anchored Protease-Activatable Polymersome for precise detection of Cancer Cells	
P1704_0420	Haejin Chun	Yonsei University	Fusogenic Polymersome Activated by Enzymatic Protease for Cancer Theragnosis	●
P1704_0448	Eun-Ah You	Korea Research Institute of Standards & Science (KRISS)	Template-Assisted Fabrication of Hierarchical Nanostructures for Biomolecular Sensing Applications	
P1704_0630	Jisoo Park	Sungkyunkwan University	Detection of Matrix Metalloproteinase-7 Using Amine Functionalized Plasma Polymerized Polyethylene Glycol Film	

P1704_0641	Byung Ju Yun	Yonsei University	Immunoassay using PCL/Ag/SiO ₂ nanofiber composite with metal-enhanced fluorescence effect	
P1704_0644	Youngmi Kim	Korea Research Institute of Standards & Science (KRISS)	Fabrication and characterization of amine-functionalized plasma-polymerized PEG film on 3D beads by using a modified PE-CVD system	●
P1704_0686	Jeong Keun Kook	Gachon University	Boronic acid-functionalized magnetic nanocomposites for the efficient extraction of catechol amines from human serum and its application to dopamine ELISA	●
P1704_0694	Jung Won Sik	Gachon University	Core-shell mesoporous silica nanostructures of Fe ₃ O ₄ @MSNs@PEG@Gold as controlled drug release and bio-imaging agents for cancer therapy	●
P1704_0698	Jeong Hyang Park	Daegu Gyeongbuk Institute of Science & Technology (DGIST)	Monitoring defects in plasma membrane composition of neurons in neurodegenerative diseases	
P1704_0717	Hee-Kyung Na	Korea Research Institute of Standards & Science (KRISS)	Facile synthesis of monodisperse porous silicon nanoparticles for well-designed theranostics	
P1704_0728	Sukhbayar Gankhuyag	Changwon National University	Fabrication and characterization of SiO ₂ @Ag as antibacterial agent via facile impregnation method: silver ions concentration, and calcination for bactericidal activity	●
P1704_0976	Jahyun Nam	Korea University	Enzymatic Antifouling based on Highly Stable and Reusable Immobilized Acylase via Quorum Quenching	
P1704_0837	Jihoon Kang	Hanyang University	Cancer Biosensor Microfluidic System Based on the Three-Dimensional Web Structure of Carbon Nanotubes	●
P1704_0844	Junhyoung Ahn	Korea Institute of Machinery and Materials (KIMM)	H1N1 Virus Detection with Fluorescent Nanomesh Filter using Multilayer Liquid Transfer Imprint Lithography	
P1704_0902	Yong Cheol Shin	Pusan National University	Application of black phosphorus nanodots to cell imaging	●
P1704_0905	Tran Anh Vy	Gachon University	Mesoporous silicon nanoparticle as a theragnostic nanocarrier for cancer imaging and therapeutic applications	●
P1704_0928	Subin Yu	Ewha Womans University	Titania Coated Anisotropic Gold Nanoparticles for Phototherapy Induced By NIR	●
P1704_0942	Da Yeon Park	Sogang University	Generation of cellular spheroids from microwells and nanoparticles	●
P1704_0962	Seokyung Lee	Korea Institute of Science and Technology (KIST)	Real-time molecular detection of matrix metalloproteinase(MMP)-2, 9 in mouse models of lymph node metastasis via in vivo ratio-metric fluorescence imaging	
P1704_0993	Gayoung Kim	Korea Institute of Science and Technology (KIST)	Indocyanine green-loaded nanoparticles for locoregional treatment: fluorescence imaging and photo-thermal therapy	
P1704_1062	Phuong Ha Lien Tran	Deakin University	A strategy of engineering solid lipid nanoparticles for improved drug delivery	

P1705_0502	Subeom Shin	Hanyang University	Hollow TiO ₂ webbed Carbon Nanotubes with Dual functional Porous Carbon-paper for High performance advanced Li-S battery system	
P1705_0506	Sang-Min Park	Hanyang University	Novel Cathode Materials for High-rate and High-energy Sodium-ion Batteries	
P1705_0507	Hun Kim	Hanyang University	Critical issues in Li-O ₂ full cell	
P1705_0508	Li Ping	Sungkyunkwan University	Controllable synthesis of hierarchical porous mixed transition-metal oxide spheres for lithium ion batteries	●
P1705_0511	Jin Il Kim	Yonsei University	A Structurable Gel-Polymer Electrolyte for Sodium Ion Batteries	●
P1705_0514	Mingyu Jung	Sungkyunkwan University	Development of High-Capacity Pseudocapacitor based on Nickel Oxide/Graphene Nanocomposites	●
P1705_0521	Geontae Park	Hanyang University	High-energy capacity Li-ion batteries using Li[Ni _{0.8} Co _{0.06} Mn _{0.14}]O ₂ positive electrode material with a two-sloped full concentration gradient(TSFCG)	
P1705_0528	Jae-Hyung KIM	Hanyang University	The Unique Crystallographic Structure of FCG(Full Concentration Gradient) Cathode Material with Long-Term Cycling Stability for EV Application	
P1705_0564	Beumjin Park	Sungkyunkwan University	One- pot synthesis of CNT branching and N doping on the 3D graphene architecture for Lithium battery	
P1705_0606	Hyeon Jeong Lee	Korea Advanced Institute of Science and Technology (KAIST)	High Performance Pseudocapacitors based on Multicomponent Transition Metal Oxides by Local Distortion of Oxygen Octahedra	●
P1705_0613	Weerachon Phooinkong	King Mongkut	Synthesis of low-cost titanium dioxide-based nanocomposite from natural ilmenite and leucoxene for electrochemical energy storage materials	
P1705_0616	Kangho sin	Sungkyunkwan University	Hydrothermal synthesis of Co-Vanadium Oxide for Rechargeable Lithium Ion Battery	●
P1705_0655	Seungyeon Choi	Korea Advanced Institute of Science and Technology (KAIST)	Hydrated Intercalation for Efficient Desalination of Asymmetric Capacitive Deionization	●
P1705_0321	Kwang Se Lee	National Nonofabriction Center (NNFC)	Electrochemical properties of multi-walled carbon nanotubes treated with nitric acid for a supercapacitor electrode	
P1705_0325	Jae-seung Jeong	Gyeongsang National University	Facile fabrication of patterned Si film electrodes containing point pattern-structure embedded in Cu current collectors	●
P1705_0330	Ji-Woong Shin	Korea National University of Transportation	Enhanced the electrochemical performance of Na[Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ cathode material by Polypyrrole coating	●
P1705_0332	Jin-Ju Bae	Korea National University of Transportation	Synthesis of nanostructured LiFe _{0.85} Mn _{0.15} PO ₄ cathode material by sol-gel method using AAO template for Li-ion batteries	●

P1705_0366	Jin Baek	Korea Institute of Carbon Convergence Technology (KCTECH)	A Study on Electrochemical Behaviors of Kenaf Stem-Derived Porous Carbon Materials for the Electrode of High Performance Supercapacitor	●
P1705_0834	Hyung Cheoul Shim	Korea Institute of Machinery and Materials (KIMM)	Silicon-carbon nanotube aerogel nanostructures for lithium-ion batteries with long-cycle life and high capacity	●
P1705_0699	Hyunsoo Ma	Ulsan National Institute of Science and Technology (UNIST)	The comparative investigation of solid electrolyte interphase on graphite in full cells	●
P1705_0706	Woongrae Cho	Ulsan National Institute of Science and Technology (UNIST)	Critical Role of Cations in Lithium Sites on Extended Electrochemical Reversibility of Co-rich Layered Oxide	●
P1705_0859	Minkyong Kang	Ewha Womans University	Synthesis of layered structure Germanium and applicate it to Li and Na ion battery	●
P1705_0789	Seong Hyeon Choi	Ulsan National Institute of Science and Technology (UNIST)	Rediscovery of pitch as ideal coating source for Si-based anode materials in Lithium ion batteries	●
P1705_0951	Hyun-Seop Shin	Yonsei University	RuO ₂ decorated CNT cathode for lithium–oxygen batteries through atomic layer deposition	
P1705_0959	Woo Ju Kwon	Yonsei University	Enhanced Li ⁺ Conduction in perovskite Li ₃ La _{2/3-x} □ _{1/3-2x} TiO ₃ Solid-electrolyte	
P1705_0999	Jungjoon Yoo	Korea Institute of Energy Research (KIER)	Investigation of in-plane and out-of-plane structured multilayer graphene supercapacitors for high volumetric performance	●
P1705_0969	Hyun Soo Park	Sungkyunkwan University	Electrical Conductivity of Nanocarbon Powders	●
P1705_1036	Jongchan yoon	Kyungpook National University	Fabrication of Bi ₂ Te ₃ -based thermoelectric module using indium electroplating and thermocompression bonding	●
P1705_0319	Yunjang Gu	Korea Institute of Industrial Technology (KITECH)	Microporous Magnesium based Metal-Organic Frameworks for the Synthesis of Cyclic Carbonates from Epoxide and CO ₂	
P1705_0324	Eunmi Im	Korea Institute of Industrial Technology (KITECH)	Microporous Magnesium based Metal-Organic Frameworks for the Synthesis of Cyclic Carbonates from Epoxide and CO ₂	
P1705_0329	Taeyong Kim	Korea Institute of Industrial Technology (KITECH)	Low-Temperature Selective Catalytic Reduction of NO _x with NH ₃ Over a Novel V ₂ O ₅ /RGO-TiO ₂ catalyst	
P1705_0462	Hojin Jeong	Korea Advanced Institute of Science and Technology (KAIST)	Enhanced Diesel Oxidation Activity and Durability of Pd/CeO ₂ Catalysts via Hydrothermal Treatment	●
P1705_0463	Ho Seok Whang	Korea Advanced Institute of Science and Technology (KAIST)	Dry reforming of methane over highly active and durable Ru-based catalyst with zirconia	●
P1705_0470	Min Suk Choi	Korea Advanced Institute of Science and Technology (KAIST)	Uncoupling Effects of Size and Support on Ni Catalysts for Dry Reforming of Methane	●

P1705_0533	Eunhee Jang	Koera University	Robust H ₂ Perm-selective Zeolitic Imidazolate Framework-8 (ZIF-8) Films	●
P1705_0595	Byung Jin Lee	Korea University	Improvement of transition metal-based catalyst on hierarchical HZSM-5 for methane dehydroaromatization	●
P1705_0596	Suyeon Quon	Koera University	Pt-doped Pd nano-octahedron catalyst for direct synthesis of H ₂ O ₂ from H ₂ and O ₂	●
P1705_0621	Heejoong Kim	Koera University	Adsorption properties of mono-dispersed DDR zeolite particles synthesized via seeded growth method	●
P1705_0643	Young-Hoon Cho	Koera University	Na promoted effects Pd/TiO ₂ for Direct Synthesis of Hydrogen Peroxide from Hydrogen and Oxygen	●
July 13(Thu.)				
P1705_0080	Jeon Taik Lim	KOREATECH	Recycling of Al-Si die casting scraps to improve cost competition of SOG-Si	
P1705_0183	Trang	Pusan National University	High Efficiency Water Splitting Based on ZnO-WO ₃ Composite Nanoparticles Film	●
P1705_0201	Malik Abdul Rehman	Sejong University	High Efficiency and stable metal insulator semiconductor Schottky junction solar cell on direct grown horizontal graphene with Al ₂ O ₃ interlayer on n-type textured silicon	●
P1705_0282	Hyung Yong Ji	Chonbuk National University	Surface Passivation Effect of Amorphous Si Thin Films Deposited on Nano-textured Crystalline Silicon Solar Cell	
P1705_0284	Sel Gi Ryu	Chonbuk National University	Characteristic of Al-rich Zinc Oxide Thin Films for Application of Crystalline Silicon Solar Cell	
P1705_0293	Jun-Hyoung Sim	Daegu Gyeongbuk Institute of Science & Technology (DGIST)	Earth-abundant absorber based solar cells onto flexible substrate	
P1705_0318	Vivek M. More	Yeungnam University	AgInS ₂ absorber for Quantum Dot Sensitized Solar Cells	●
P1705_0331	Seong Gwan Shin	Gachon University	High performance perovskite solar cell fabricated with optimum photoelectrode and light absorbing layer.	
P1705_0389	Rajkumar Sahu	Chonbuk National University	Oxide Tunneling Si Solar Cell Fabrication by Oxygen Ion Implantation with the Inclusion of Silicon-on-Insulator Nanolayer	●
P1705_0390	Jong Hun Mun	Chonbuk National University	MoS ₂ /Si Nano-heterojunction Formation by Electron Beam Evaporation for Solar Cell Application	●
P1705_0392	Srikanta Palei	Chonbuk National University	GaAs Nanodot Thin-film Solar Cell Fabricated by RF Sputtering Process	●

P1705_0400	Junyoung Lee	Hanyang University	Enhancement of CdTe quantum dot-sensitized solar cell applying modified single-walled carbon nanotube	
P1705_0458	Ji Hoon Kang	Hanyang University	Photovoltaic properties of n-ZnO/p-Si heterojunctions with Al-doped ZnO as electron transporting layer	
P1705_0517	Jae Keun Nam	Yonsei University	Potassium Incorporation for Enhanced Performance and Stability of Fully Inorganic Cesium Lead Halide Perovskite Solar Cells	●
P1705_0540	Tahmineh Mahmoudi	Chonbuk National University	Comparative Studies of Metal-doped ZnO Transparent Conducting Oxide Thin Films and Their Application as Cathode Interlayer in Solar Cells	●
P1705_0560	백민기	Pohang University of Science and Technology (POSTECH)	Enhanced solar water splitting performance of ZnO photoanode via simple vacuum annealing treatment	●
P1705_0569	Yousheng Wang	Chonbuk National University	Ambient-air Processed Perovskite Solar Cells Employing Effective Perovskite-NiO Nanoparticles Composite	●
P1705_0651	Chang-Duk Kim	Kyungpook National University	Synthesis of Ni-graphite core-shell nanoparticles for bulk hetero-junction solar cell applications	
P1705_0702	Sangkuk Kim	Pohang University of Science and Technology (POSTECH)	Highly adaptive artificial leaf applicable in various nature environments	●
P1705_0705	Young-III Kim	Daegu Gyeongbuk Institute of Science & Technology (DGIST)	Fabrication of Cu ₂ ZnSn(S, Se) ₄ absorber layers using metal and compound thin films	
P1705_0792	Seongseop Kim	Pohang University of Science and Technology (POSTECH)	Direct access to multi-length scale structured Nb ₂ O ₅ possessing submicron-particles and mesoporous structures	●
P1705_0199	Ara CHO	Korea Institute of Energy Research (KIER)	Application of Se@Ag ₂ Se core-shell in the hybrid ink to thin film solar cells	●
P1705_0857	Ly Thi Giang	Ewha Womans University	Synthesis and Structure of Octahedral Rhenium Clusters as new Materials for Solar Cell	●
P1705_0825	Byungwoo Kim	Korea Institute of Science and Technology	A study on the relationship between physical properties and photoelectrochemical properties of Cu(In, Ga)(S, Se) ₂ photocathodes	●
P1705_0826	Jaeseung Jeong	Korea Institute of Science and Technology (KIST)	COLORED PARTIAL TRANSPARENT PHOTOVOLTAICS USING SOLUTION-PROCESSED CIGS THIN-FILM FOR BIPV	●
P1705_0855	Dong Gwon Moon	Korea Institute of Energy Research (KIER)	Effects of impurity phase marcasite on the properties of pyrite thin films	●
P1705_0856	Shanza Rehan	Korea Institute of Energy Research (KIER)	Effects of Sodium Addition on Non-Vacuum based CuInSe ₂ Thin Film Solar Cells	●
P1705_0952	Saad Sarwar	University of Science & Technology (UST)	MOF-based Gel Electrolyte for Thermally Secure DSSCs	●

P1705_0944	Ji Young Kim	Catholic University of Daegu	Effects of a dianion compound as a surface modifier on the interfacial charge recombination in TiO ₂ -based solar cells	●
P1705_0947	Dong-Won Shin	Catholic University of Daegu	Improved photovoltaic performance of poly(3-hexylthiophene)-based solar cells by incorporation of a thiophene derivative in the active layer	●
P1705_0994	Navaphun Kayunkid	King mongkuts institute of technology ladkrabang	Efficiency enhancement of polymer solar cells through the second electron acceptor	●
P1705_1005	Ji-Young Jeong	Hanbat National University	An Investigation on the Crystal Growth of Hybrid Perovskites Films via Shear Coating Processes	●
P1705_1007	Ji-Hye Choe	Hanbat National University	Influence of Additional Inorganic Layer to Performance of Perovskite Solar Cells	●
P1705_1026	Ki-Beom Cheon	Seoul National University	Optimization of Transparent-Conducting-Oxide for Kesterite Solar Cells	●
P1705_1028	Su Geun Ji	Seoul National University	Observation of thermal degradation with methylammonium and formamidinium-based perovskite materials	●
P1705_1030	Dong Seok Lee	Seoul National University	Formation of CH ₃ NH ₃ PbI ₃ from electrodeposited PbO ₂ layer for p-i-n type planar perovskite solar cells	●
P1705_0004	Jeong Yeon Do	Yeungnam University	Photocatalytic CO ₂ reduction with H ₂ O vapors for CH ₄ production using Sb _{1.5} Sn _{8.5} -xTi _x O _y synthesized by hydrothermal method	●
P1705_0009	Byeong Sub Kwak	Yeungnam University	Redox characteristic of Fe ₂ -xNi _x MnO ₄ spinel structure for chemical looping combustion	
P1705_0014	Ji Yeong Lee	Korea Institute of Science and Technology (KIST)	Compositional analysis of Li(NiCoMo)O ₂ (NCM111) with cycling performances by three-dimensional atom probe tomography (APT)	●
P1705_0157	Sanghwa Lee	Seoul National University	Colloidal Synthesis of Potassium Doped Bismuth Telluride for Improved Thermoelectric Performance	●
P1705_0168	Minsun Kim	Daegu Gyeongbuk Institute of Science & Technology (DGIST)	A Study of the Prussian Blue/Prussian White Redox Reactions on the Surface of TiO ₂ Photocatalyst	●
P1705_0245	sumin Son	Inha University	Nanocarbon derived from ZIF-8 as an efficient electrode for oxygen reduction reaction (ORR)	●
P1705_0259	Yong Han Jung	Yeungnam University	Effect of Manganese oxide over Cu-Mn-based Oxygen Carriers for Chemical Looping Combustion	●
P1705_0275	Woo-Bin Jung	Korea Advanced Institute of Science and Technology (KAIST)	Effect of wrinkle structure on electrocatalytic behavior for CO ₂ reduction	●

July 14(Fri.)

P1705_0188	Gayea Hyun	Korea Advanced Institute of Science and Technology (KAIST)	Hierarchically Porous Platinum Electrode for Efficient Mass Transfer in PEM Fuel Cell	●
P1705_0243	MD Lutful Kabir	Kyungpook National University	Highly proton conductive poly(vinyl acetate)/Nafion® composite membrane for proton exchange membrane fuel cell application	
P1705_0426	Sung Soo Shin	Seoul National University	A novel fabrication method of high-performance multiscale solid oxide fuel cell (SOFC) via aerosol-based spray deposition method	●
P1705_0574	Beom-Soo Koh	Hanyang University	Fabrication and evaluation of the high performance PEMFC MEA with a low Pt loading prepared by electrostatic spray deposition.	
P1705_0634	Zuh Youn Vahc	Hanyang University	The influence on the cell performance of CO production by Boudouard reaction in direct carbon solid oxide fuel cells	●
P1705_0660	Hyunguk Kwon	University of Seoul	Density Functional Theory Study for Chemical Degradation in Perovskite Cathodes for Solid Oxide Fuel Cells	●
P1705_0719	Seonggyu Lee	Pohang University of Science and Technology (POSTECH)	Importance of Structural Factors of Metal-free Oxygen Reduction Reaction Catalysts in the Membrane Electrode Assemblies for Anion Exchange Membrane Fuel Cells	
P1705_0737	Bohyun Kim	Gachon University	Effect of crosslinking on the hydroxide conductivity in the nano ionic channels of a multication side chain quaternized poly(arylene ether sulfone) membrane	●
P1705_0743	Seoung-Ju Lee	Hanyang University	Nanostructural analysis of PEMFC catalyst layer by three-dimensional reconstruction	
P1705_0832	Heeyeon Kim	Korea Institute of Energy Research (KIER)	Application of porous graphene layers for long-term stability of metal catalysts	
P1705_0840	Chang Won Yoon	Korea Institute of Science and Technology (KIST)	Influence of ensemble and ligand effects of PdAu catalyst on formic acid dehydrogenation: Experimental and theoretical investigation	●
P1705_0867	Kshama Singh	Ewha Womans University	Hydrogen Evolution from Ammonia over Highly Stable RuO _x (x=0, 1) -Loaded Hierarchical Hollow Nanoporous Silica Spheres	●
P1705_0257	No-Kuk Park	Yeungnam University	Activity Tests of Macro-Meso Porous Catalysts over Metal Foam Plate for Steam Reforming of Bio-Ethanol	
P1705_0288	Chan Sol Kim	Korea Advanced Institute of Science and Technology (KAIST)	Three Dimensional Bismuth vanadate/Carbon coated Copper oxide Nanowire array for Artificial Photosynthesis in Carbon dioxide reduction	●
P1705_0308	Robel Mehari	Gachon University	Bimetallic nickel-cobalt decorated macroporous 3D MWCNT aerogel for urea electro oxidation	●
P1705_0422	Jong-Ki Jeon	Kongju National University	Hydroupgrading of Bio-oil over PtMg/KIT-6 Catalysts	

P1705_0532	Sang Moon Lee	Kyonggi University	Catalytic performance of Ni based catalytic porous membrane prepared by modified electroless palladium plating for steam methane reforming	
P1705_0558	Min Woo Lee	Koera University	Highly active SiO ₂ @Pd@CeO ₂ core-shell catalyst for CO and propylene oxidation	●
P1705_0590	Min June Kim	Koera University	Application of meso-nickel manganese oxide for the hydrogen peroxide decomposition	●
P1705_0599	Deok Yeon Jo	Koera University	Interplay of Ligand and Strain Effects in CO Adsorption on Bimetallic Cu/M (M=Pt, Pd, Ir, Ni) Catalysts from First-principles: Effect of Different Facets in Catalysis	●
P1705_0010	Jaekyeong Yoo	Seoul National University	Hydrogen production by steam reforming of natural gas over vanadium-nickel-alumina catalysts	
P1705_0011	Haebin Shin	Seoul National University	Improvement of sulfur resistance of Pd/Ce-Zr-Al-O catalysts in the oxidation of carbon monoxide	
P1705_0012	Youngsoo Ro	Seoul National University	Alkylation of isobutane/2-butene over modified FAU-type zeolites	
P1705_0808	Geun-Ho Han	Koera University	Guaiacol hydrodeoxygenation reaction pathways over ZrP supported Co and Ni catalysts	●
P1705_0847	Hyunah Kim	Seoul National University	Coordination tuning of phosphates based materials towards efficient water oxidation catalyst	●
P1705_0863	YINGSHI JIN	Ewha Womans University	Solution Synthesis of Surfactant-Free Cu ₂ -xSe and CuAgSe and their Thermoelectric Properties	●
P1705_0901	Byunghoom Kim	Seoul National University	Mechanism study on Transition-metal doped Cobalt oxide OER catalysts	●
P1705_0940	Han Sol Kim	Korea University	Enzymatic CO ₂ Conversion and Utilization for Improving the Growth of Photosynthetic Microorganism	
P1705_0924	Ji In Park	Korea Institute of Science and Technology (KIST)	Optimization of Alkali metal Promoted Cu/ZnO/Al ₂ O ₃ catalyst for Higher Alcohol Synthesis	
P1705_1029	Seong Eun Heo	Seoul National University	Fabrication and catalytic properties of RuO ₂ /MoS ₂ nanoparticle supported by TiO ₂ nanotube arrays	●
P1705_0175	Hyung-Ju Kim	Korea Atomic Energy Research Institute (KAERI)	Polymeric Membranes for Desalination & Nuclides Separation	
P1705_0277	Lan Anh Thi Nguyen	Hanyang University	Hydrogen Permeation and Embrittlement Characteristics of SS316LN	
P1705_0298	Ermias Libnedengel Tsege1	Pusan National University	Cu ₂ O/CuO nanowire-ZnO heterojunction for efficient photo induced overall water splitting	●

P1705_0406	Jeong-Ho An	Gangneung-Wonju National University	Numerical Simulation on the Induced Voltage across the Coil Terminal by the segmented flow of Ferrofluids	●
P1705_0501	Chan Hun Kim	Korea University	Nano-sized and unsupported tungsten carbide catalyst for upgrading vacuum residue	
P1705_0551	Hyeon Ho Shin	KU-KIST Graduate school of Converging Science and Technology	Visible-Light Induced Photocatalysts for Highly Efficient Suzuki-Miyaura C-C coupling reaction	●
P1705_0687	Hyung Jun Kim	University of Seoul	Effect of Transition-Metal Dopants on Ceria Catalysts for CO Oxidation	●
P1705_0689	Kyungchul Sun	Korea Institute of Industrial Technology (KITECH)	Wet-laid process based carbon fiber non-woven and their application	
P1705_0691	Rui Huang	University of Seoul	Support Effect of Supported Pd Catalysts Prepared by Incipient Wetness Impregnation Method for CO Oxidation	
P1705_0750	K.P.Shinde	Korea Institute of Materials Science Changwon	Studies on synthesis and characterization of iron nitride nanoparticles by urea route	
P1705_0854	Dahee Lee	Ewha Womans University	Synthesis and thermoelectrical properties of Sulfur-doped CuBi ₂ O ₄	●
P1705_0967	Jisu Han	University of Science & Technology (UST)	Optimization of complementary electrochromic devices using TiO ₂ -WO ₃ and Prussian blue(PB)	●
P1705_1034	Yi Taek Choi	Kyungpook National University	Fabrication of the thermal radiation plate of a thermoelectric module using anodic oxidation and electroplating	●
P1705_1060	Beomjin Jeong	Yonsei University	Dimethyl Sulfoxide Assisted Imprinting of Thin Organic-Inorganic Hybrid Perovskite Films	

NANO KOREA 2017 Poster Presentation Schedule

TS06. EHS, Standard and ELSI in Nanotechnology

· Set-up : July 12(Wed.) - July 13(Thu.) 08:00-08:45

· Presentation : July 12(Wed.) - July 13(Thu.) 11:15-12:15

· Tear-down : July 12(Wed.) - July 13(Thu.) 16:00-17:00

· Best Poster presentation : July 14(Fri.) 13:15-14:15

Presentation No.	Presenter	Affiliation	Title	Award Participation
July 12(Wed.)				
P1706_0204	SangSik-Lee	Korea Conformity Laboratories (KCL)	Dermal, Eye Irritation and Skin Sensitization Study of TiO ₂ Nanomaterials	●
P1706_0205	JaeHyuck Sung	Korea Conformity Laboratories (KCL)	Subchronic inhalation toxicity study of SiO ₂ (Tetraethyl orthosilicate) in Fisher 344 rats	●
P1706_0452	Min Beom Heo	Korea Research Institute of Standards & Science (KRISS)	A comparison study of chemical toxicity and nanotoxicity in human primary cells and cancer cells	
P1706_0461	Wan-Seob Cho	Dong-A University	Comparison of phagocytic effects between high aspect ratio nanomaterials	●
P1706_0598	Jongyeon Go	Dongguk University	Fabrication of AuNPs charge library for cytotoxicity evaluation	●
P1706_0625	Kim Hyejin	TO21 Co Ltd.	Review on OECD WPMN Dossier and Endpoints for ZnONPs	●
P1706_0653	Ga-Yun Kim	Yonsei University	NO-based anti-tumor immune responses and MR imaging of Poly(L-arginine) surface functionalized manganese oxide nanocomplex	
P1706_0677	Hyeong Jeon An	Pohang University of Science and Technology (POSTECH)	Development of tracking algorithm enables single nano-particle tracking in a living cell	
P1706_0710	Soojin Kim	Korea Institute of Toxicology (KIT)	Characterization and toxicological evaluation of iron oxide nanoparticles with different surface charges	
P1706_0718	Hyun Kil Shin	Yonsei University	Excavation of descriptors for development of nano-SAR model to predict cytotoxicity of metal/metal oxide nanoparticles	●
P1706_0751	Hye-Mi So	Korea Institute of Machinery and Materials (KIMM)	Dispersion and characterization of single-walled carbon nanotubes	
P1706_0759	Hyun-Jeong Eom	Korea Research Institute of Standards & Science (KRISS)	Cytotoxicity and Kinetics of cellular uptake and exocytosis in hepatocyte carcinoma cell line	
P1706_0766	Ja Young Park	Korea Research Institute of Standards and Science	A method to measure of the liquid suspension nanoparticle size in aerosols	

P1706_0802	Hye-Young Son	Yonsei University	Manganese oxide inner structure and outer surface modification effect on T1 relaxivity	●
P1706_0804	Euiyeon Lee	Dongguk University	Identification of the relationship between physicochemical properties and biological effects of gold nanoparticles on cell function	●
P1706_0853	Jinyoung Jeong	Research Institute Bioscience and Biotechnology	Toxicity effect of gold ion and microplastics in zebrafish embryo	
July 13(Thu.)				
P1706_0486	Youn-Joo Jung	Korea Institute of Toxicology (KIT)	Toxicity of graphene oxide on aquatic and terrestrial organisms	●
P1706_0498	Jinwoo Park	Occupational Safety & Health Research Institute	A study on designing for experimental apparatus on the measurement of nanomaterials dustiness using the rotating brush device and the results	
P1706_0541	Jae Soon Kang	Korea Institute of Toxicology (KIT)	Alternative androgen transactivation by adsorption with DHT and ROS-related cytotoxic effects in human prostate cells exposed to silver nanoparticles	●
P1706_0632	Nivedita Chatterjee	University of Seoul	Size and aspect ratio of MWCNT as critical determinant of uptake and biological stress responses	●
P1706_0657	Eun-Woo Lee	Korea Research Institute Bioscience and Biotechnology (KRIBB)	Silica nanoparticles inhibit brown adipocyte differentiation via regulation of p38 phosphorylation.	
P1706_0682	Jihye Kim	Yonsei University	Poly (aniline-co-pyrrole) polymerized Nanoregulator as Antiviral Agent against Influenza via Control of Cellular Reactive Oxygen Species	
P1706_0715	Jeongeun Im	University of Seoul	Standardization study of nano materials dispersion method for evaluation of ecotoxicity	●
P1706_0768	Rosa Kim	Korea Institute of Toxicology (KIT)	Uptake of nanoparticle by zebrafish embryo chorion	
P1706_0812	Jiyoung Jang	Yonsei University	Increased interleukin-11 and stress genes in human endothelial and human bronchial epithelial cell lines by silver nanoparticles	●
P1706_0815	Hangoo Kang	Yonsei University	Silver nanoparticles affect glucose metabolism in hepatoma cells through production of reactive oxygen species.	●
P1706_0617	Song-Hwa Bae	Seoul Womens University	Development of quantitative analytical methods for nanoparticles in biological matrices	
P1706_0662	Jin Gyeong Son	Korea Research Institute of Standards & Science (KRISS)	Absolute Quantification Method of Gold Nanoparticles by Using ICP-OES	
P1706_0685	Byong Chon Park	Korea Research Institute of Standards & Science (KRISS)	Particle analysis in nanoparticle size measurement using scanning electron microscopy	

P1706_0707	Jeong Won Kim	Korea Research Institute of Standards & Science (KRISS)	VAMAS interlaboratory comparison of surface molecular layer thickness measurement on Au nanoparticle by XPS	
P1706_0988	Min Jeong Kwak	Korea Research Institute of Standards & Science (KRISS)	Development of CRMs for the Nanoparticle Size Measurement	
P1706_0763	Jeongun Kyung	Korea Research Institute of Standards & Science (KRISS)	framework of process about NanoSafety outcomes in E	●

NANO KOREA 2017 Poster Presentation Schedule

TS07. Sensor & Actuator

· Set-up : July 12(Wed.) - July 13(Thu.) 08:00-08:45

· Presentation : July 12(Wed.) - July 13(Thu.) 11:15-12:15

· Tear-down : July 12(Wed.) - July 13(Thu.) 16:00-17:00

· Best Poster presentation : July 14(Fri.) 13:15-14:15

Presentation No.	Presenter	Affiliation	Title	Award Participation
July 12(Wed.)				
P1707_0052	Donghwi Cho	Korea Advanced Institute of Science and Technology (KAIST)	Highly Sensitive and Stretchable Strain Sensors Based on Three-Dimensional Bicontinuous Nanoporous Electrodes for Human-Motion Detection	●
P1707_0235	Jae Keon Kim	Korea Institute of Industrial Technology (KITECH)	Room temperature LPG sensor using carbon nanotube yarn	
P1707_0261	Hyouon Woo Kim	Hanyang University	Improved gas sensing properties of metal nanoparticles functionalized with CNT	
P1707_0314	Chang Min Lee	Sungkyunkwan University	Effects of Sheet Morphology of MoS ₂ on NO ₂ Response for Gas Sensor Application	●
P1707_0317	Jongtaek Lee	Hanyang University	Fabrication of gas sensor based on three dimensional single-walled carbon nanotubes networks suspended on SiO ₂ /Si pillar array	
P1707_0336	Doo Hyung Jang	Korea Advanced Institute of Science and Technology (KAIST)	High-Resolution p-n Type Bi-Metal Oxide Semiconductor Nanowire Array as an Ultrasensitive Sensor for Volatile Organic Compounds	
P1707_0356	Hyeong-Jun Koh	Korea Advanced Institute of Science and Technology (KAIST)	Controllable Tuning of the performance of Volatile-Organic-Compound Sensing by MoS ₂ Using Au Nanoparticle Incorporation	●
P1707_0385	Manjeet Kumar	Incheon national university	Strikingly enhanced room temperature gas sensing properties of SnO ₂ -CeO ₂ based hetrostructure nanocomposite Materials	●
P1707_0401	Pratigya Sharma	Chonbuk National University	Metal Oxide Integrated Carbon Aerogels based Electrochemical Sensor for Hydrogen Peroxide Sensing	
P1707_0459	Woo Seok Lee	Inha University	Optimal Pt nanoparticle size and annealing temperature for the best sensing performance of Pt-decorated In ₂ O ₃ nanorods	●
P1707_0460	Jae Kyung Lee	Inha University	NO ₂ and CO gas sensing properties of WO ₃ nanorods functionalized with reduced graphene oxides	●
P1707_0484	Jun Kyul Song	Seoul National University	Wearable force touch sensor array using a flexible and transparent electrode	●
P1707_0490	Hak-Young Ahn	Korea University	Additive-doped IR transparent ZnS windows fabrication by SPS technique using mechano-chemically synthesized ZnS powders	●

P1707_0509	Yeowon Yoon	Sogang University	Hydrogel microelectromechanical systems (MEMS) resonators for pressure and humidity sensing applications	●
P1707_0664	Na rea Jo	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Improved sensitivity of bio-sensor through using strong plasmonic region	●
P1707_0313	Ban-Suk Park	Kwangwoon University	Wearable nanomaterial-based glucose bio-sensors with functionalized glucose oxidase	●
P1707_0531	Min-Ki Kim	Yonsei University	Nanostructure based wearable triboelectric nanogenerator for self-powered activity sensor	
P1707_0582	Sangjun Park	Korea Advanced Institute of Science and Technology (KAIST)	Capacitive Micromachined Ultrasonic Transducer (CMUT) as a chemical sensor with low operating voltage	●
P1707_0740	Byeong-Ung Hwang	Sungkyunkwan University	Stretchable and transparent capacitive touch/force sensor as a multi-functional input device for wearable electronics	
P1707_0622	Bo-yeong Kim	Sungkyunkwan University	Development of stretchable electrochemical sensor platform using elastomeric micro-structured substrate	●
P1707_0623	Eun Roh	Sungkyunkwan University	All-directional stretchable pressure sensor based on PEDOT:PSS-SWCNT nanocomposite	●
P1707_0692	Kang-Hyun Kim	Pusan National University	Three-dimensionally microstructured metal nanowire network-based high-performance strain sensor	●
P1707_0788	Doil Kim	Sungkyunkwan University	A highly stretchable pressure sensor based on piezoelectric nanocomposites	
P1707_0179	Min Gao	Korea Advanced Institute of Science and Technology (KAIST)	Palladium Nanowire Network via Nanosphere Lithography for Hydrogen Sensor Application	●
P1707_0315	Healin Im	Sungkyunkwan University	Thin-film Iron (Fe) sensor encased by anion exchange membrane (AEM) for monitoring penetration of chloride ions in mortar	●
P1707_0814	Piyawan Leepheng	King Mongkut s Institute of Technology Ladkrabang	Molecularly Imprinted Modified Electrode for cypermethrin pesticide detection	●
P1707_1025	Byeong-hwa Cho	Yonsei University	Sensing Characteristics for Pulsed heating Mode Driving of VOC Sensor	●
P1707_1027	Jaeman Son	Korea university	Characteristics evaluation of fiber-optic radiation sensor for proton therapeutic beam	
P1707_0196	Intisal Akhtar	Sejong University	Through Silicon via Imaging for 3D Integrated Circuits using MWCNT based AFM Probe	●
P1707_0510	Yoo Min Park	National Nonofabrication Center (NNFC)	A film-based microfluidic chip for the multiple gene amplification and its application in electrochemical analysis for food illnesses pathogen	●

P1707_0525	Yin-Chang Wei	National Chiao Tung University	The Design of High Resolution Low Temperature Polycrystalline Silicon Optical Fingerprint Sensor with 100 Nanometer Thick Absorption Layer	●
P1707_0648	Yugyung Jung	Gwangju Institute of Science and Technology (GIST)	Controlling cells' movement for cell counting application using a developed herringbone structure in a microfluidic system	
P1707_0773	Byungwhan Kim	Sejong University	In-situ monitoring of discharge current using laser speckle pattern	
P1707_1061	Eui Hyuk Kim	Yonsei University	Organic Light Emitting Board for Dynamic Display	
July 13(Thu.)				
P1707_0650	Sihyun Kim	Seoul National University	Analysis on Current Drift of n- and p-channel pH-sensitive SiNW ISFET by capacitance measurement	
P1707_0679	Won-Chul, Choi	Hanyang University	Development of an ion-sensitive Indium Oxide Thin Film Transistor	
P1707_0688	Gitae Han	Hanyang University	Highly Sensitive pH Detection by In ₂ O ₃ Transistor Sensor Functionalized With 3-Aminopropyltriethoxysilane	
P1707_0712	Jae-Hyoung Lee	Inha University	Gas sensing properties of n-SnO ₂ -p-Co ₃ O ₄ composite nanofibers	●
P1707_0744	Jae-Hun Kim	Inha University	CO detection by the synergistic effect of Au nanoparticles and core-shell nanowires	●
P1707_0778	Eun Bok	Yonsei University	Metasurfaces for enormous transmission of sound from water to air	
P1707_0811	Junhyeok Lee	Sogang University	Sharpness improved hydrogel atomic force microscope cantilevers via wettability enhanced silicon tip mold by metal deposition	●
P1707_0813	Hye Taek Oh	Hanyang University	Analyses of Dust Effect on DC Plasma and Material using Electric Probes with various Dust Dispensers	
P1707_0820	Iman Shackery	Yonsei University	Non-enzymetic Glucose Sensing properties of Cobalt Hydroxide on Three Dimensional Graphene	●
P1707_0973	Ho Young Jang	Sungkyunkwan University	Graphene coating for better cooling of soft actuator	●
P1707_0645	Sun Hyung Ha	Pusan National University	Highly stretchable multidimensional strain sensor based on strain-engineered elastomeric substrate	●
P1707_0734	Jun-Hyuk Kwak	Center for Advanced Meta-Materials	Fabrication of flexible piezoelectrical device using sacrificial layer	

P1707_1037	Seunghun Kim	Sungkyunkwan University	Nanoimprinted Metal-Polymer Hybrid Structures for Bacteria Detection	●
P1707_1059	Hien Thi Ngoc Le	Daegu University	Synthesis and Characterization of Cyclodextrin-Graphite Oxide-Carbon Nanotube Composite Films for Enhanced Electrochemical Supramolecular Recognition	●
P1707_0250	Hong Kyeong Do	Yonsei University	Micro-pillar array sensor for in-situ detection of Hg ion in complex environment	●
P1707_0260	Han Pill Song	Gachon University	Rapid colorimetric biosensor for thrombin detection using aptamer-functionalized nanoceria	●
P1707_0262	Minsoo Chung	Gachon University	Colorimetric detection of cholesterol using multi-enzymes incorporated copper nanoflowers	●
P1707_0292	Sangjin Oh	Pusan National University	A plasmon-enhanced photoluminescence immunoassay using gold nanoparticle decorated carbon nanotube for detecting the influenza virus	●
P1707_0365	Yuseon Noh	Gwangju Institute of Science and Technology (GIST)	Metal nanoclusters based fluorescence sensor for detection of pyrophosphate	
P1707_0368	Donggu Hong	Gwangju Institute of Science and Technology (GIST)	Lateral flow immunoassay grafted electrochemiluminescence biosensor for highly sensitive C-reactive protein detection	●
P1707_0536	Rafiq Ahmad	Chonbuk National University	Highly efficient non-enzymatic glucose sensor based on CuO modified vertically-grown ZnO nanorods on electrode	●
P1707_0548	Kiesar Sideeq Bhat	Chonbuk National University	Nozzle-jet printed flexible biosensor based field-effect transistor for high performance glucose detection	●
P1707_0633	Hanbyul Kim	Gwangju Institute of Science and Technology (GIST)	Development of 3D Microfluidic Platform Capable of Generating Multiple Chemo-gradients for Evaluation of the Breast Cancer Cell Invasion	
P1707_0756	Il-Suk Kang	National Nanofab Center	High-Resolution Transparent Capacitive Fingerprint Sensors for Mobile Security	●

NANO KOREA 2017 Poster Presentation Schedule

TS08. Computational Nano Science & Technology

· Set-up : July 12(Wed.) - July 14(Fri) 08:00-08:45 · Presentation : July 12(Wed.) - July 14(Fri.) 11:15-12:15
 · Tear-down : July 12(Wed.) - July 14(Fri.) 16:00-17:00 · Best Poster presentation : July 14(Fri.) 13:15-14:15

Presentation No.	Presenter	Affiliation	Title	Award Participation
July 12(Wed.)				
P1708_0099	Daehyeon Choi	Yonsei University	Solid-Electrolyte Interphase in the Spinel Cathode Exposed to Carbonate Electrolyte in Li-Ion Battery Application: An ab-initio Study	●
P1708_0107	Jae-Hyeon Ko	Korea Advanced Institute of Science and Technology (KAIST)	Atomic Understanding of Ligand-Surface Coordination in Cation-Rich IV-VI, II-VI, and III-V Colloidal Quantum Dots	
P1708_0121	Min Jong Noh	Korea Advanced Institute of Science and Technology (KAIST)	Density functional study of the hydrogen evolution reaction activity of cobalt-embedded C2N	●
P1708_0135	Seung Hyo Noh	Yonsei University	Development of Nitrogen Doped Carbon Coated Metal Catalyst for Electrochemical Reactions: Theoretical Calculation and Experimental Validation	
P1708_0140	Hongseok Jang	Chonbuk National University	Modeling of carbon mortar color expression using artificial neural network	●
P1708_0167	Na-Young Kim	Korea Advanced Institute of Science and Technology (KAIST)	Thermodynamic Stability and Catalytic Activity of Divacancy Complexes in Graphene: A First-Principles Study	●
P1708_0224	Junhyeok Bang	Korea Basic Science Institute (KBSI)	Coherent carrier dynamics and dephasing-induced ultrafast charge transfer in van der Waals heterostructures	
P1708_0227	Jeemin Hwang	Yonsei University	Synthesis of Durable Small-sized Bilayer Au@Pt Nanoparticles for High Performance PEMFC Catalysts	●
P1708_0248	Juho Lee	Korea Advanced Institute of Science and Technology (KAIST)	Silicon edge passivation as a stabilization method of zigzag graphene nanoribbons	●
P1708_0255	Hyo Seok Kim	Korea Advanced Institute of Science and Technology (KAIST)	Atomic self-interaction correction calculations of transition metal dichalcogenides multilayers and heterostructures	●
P1708_0258	Dongjae Shin	Korea Advanced Institute of Science and Technology (KAIST)	Development of magnetism in armchair graphene nanoribbons with edge functionalizations: A first-principles study	●
P1708_0281	Tae Hyung Kim	Korea Advanced Institute of Science and Technology (KAIST)	Electrical and thermal transport properties of carbon chain encapsulated within single-walled carbon nanotube	●
P1708_0283	Seong Jea Byeon	Korea Advanced Institute of Science and Technology	Structural and Electronic Properties of CdS Nanoplatelet: A First-principles Study	●

P1708_0301	Dongsuk Yoo	Korea Advanced Institute of Science and Technology (KAIST)	Atomic Understandings on Interfacial Structures of Spherical InP Core With Metal Chalcogenide Shell Passivation in Colloidal Core-Shell Quantum Dots	●
P1708_0384	Yu-Yan Qiu	National Chung Hsing University	Hole Mobility Calculation for Monolayer TMD Alloy Using Tight-Binding Band Structure	
P1708_0394	Hoje Chun	Yonsei University	First principles computational study on the adsorption mechanism of organic methyl iodide gas on triethylenediamine impregnated activated carbon	●
P1708_0453	Xiaowei Li	Korea Institute of Science and Technology (KIST)	Ab initio calculations study on doped-metal induced stress reduction mechanism of diamond-like carbon films	
P1708_0503	Hiroshi Mizuseki	Korea Institute of Science and Technology (KIST)	New Carbon Allotropes by Computational Science	
P1708_0567	Deepika	Korea Institute of Science and Technology (KIST)	Edge effects on electronic band structure of graphene nanoribbons	
P1708_0636	Young-Su Lee	Korea Institute of Science and Technology (KIST)	Lithium ion conduction and defect structure of LiBH ₄	
P1708_0646	Gijae Kang	Seoul National University	First-principles study on the origin of charge trap in amorphous Si ₃ N _{4-x}	●
July 13(Thu.)				
P1708_0619	Yeon-Ho Lee	Sungkyunkwan University	Structural Characteristics of a Conical-frustum-patterned Stretchable Heater with External Force Environment	●
P1708_0816	Kunanon Chattrairat	King Mongkuts Institute of Technology Ladkrabang.	Investigation of functional graphene/pesticide molecules by using DFT calculation	●
P1708_0841	Kayoung Yun	Korea Institute of Science and Technology (KIST)	A new insight into metal-organic hybrid interfaces	●
P1708_0577	Ho-Young Lee	Changshin University	Cooling Characteristics by Magnetoconvection Effects for Vegetable Transformer Oil Based Magnetic Nanoparticles	
P1708_0513	Taehun Lee	Yonsei University	First-Principles Thermodynamics Of Thin Oxide Structures On Metal Support Under Controlled Growth Conditions	●
P1708_0520	Jiwoo Lee	Yonsei University	Chemical transformation of metals and chalcogens: An experimental and theoretical investigation	●
P1708_0522	Jongmin Yun	Yonsei University	The role of polymorphism in molybdenum trioxides for light-emitting diode applications	●
P1708_0667	Ha-Jun Sung	Korea Advanced Institute of Science and Technology (KAIST)	Prediction of a new topological semimetallic carbon allotrope in mixed sp ² -sp ³ bonding networks	

P1708_0668	Woo Hyun Han	Korea Advanced Institute of Science and Technology (KAIST)	Construction of high-dimensional potential energy surfaces for boron using artificial neural networks	
P1708_0683	JaeYul Lim	University of Seoul	Mechanistic Study of Reverse-Water Gas Shift Reaction on Ni-based Alloys	
P1708_0711	Minho Lee	Virtual Lab. Inc	On-demand materials simulation platform : Materials Square	
P1708_0735	Geonhee Lee	University of Seoul	Enhanced Activity of Transition Metal Co-doped Ceria System: A Density Functional Theory Study	
P1708_0755	Joohee Lee	Seoul National University	Computational screening of defective 2D metal dichalcogenides for hydrogen evolution reaction	
P1708_0781	Seung Mi Lee	Korea Research Institute of Standards & Science (KRISS)	Electronic Structures of Strained InAs _x P _{1-x} by Density Functional Theory	
P1708_0861	Byeol Kang	Gwangju Institute of Science and Technology (GIST)	First-principles studies on the interfacial electronic structure of III-V/Si and II-VI/Si superlattices	●
P1708_0892	Minho Kim	Korea Advanced Institute of Science and Technology (KAIST)	Theoretical Study on the Surface Adsorption and Modification of Metal Oxide Nanosheet	●
P1708_0934	Dongwook Kim	Seoul National University	Atomic-scale investigation of grain boundary motion in graphene	
P1708_0083	Joonhee Kang	Yonsei University	First Principles Computational Study for a Universal Relation between the Thermodynamic Variable and the Catalytic Activity of a Pyrite toward Hydrogen Evolution Reaction	
P1708_0173	Kim, Han Seul	Korea Advanced Institute of Science and Technology (KAIST)	Development of a multi-space constrained density functional theory approach and its application to graphene-based vertical transistors	
P1708_1054	Seunghun Jang	Korea Research Institute of Chemical Technology (KRICT)	First-principles Calculation for Lattice Transparency of Graphene	●
P1708_0455	Heechae Choi	Virtual Lab Inc.	Importance of size control in donor-doped and polymorph junctioned TiO ₂ photocatalyst	
P1708_0518	Ji-Hwan Lee	Yonsei University	The influence of cation exchange in inorganic lead-free halide perovskite: An ab initio study	●
P1708_0782	Seung Mi Lee	Korea Research Institute of Standards & Science (KRISS)	Structural Evolution by Laser Pulse using Approximate Quantum Mechanical Method	
P1708_1012	Eun-Ae Choi	Korea Institute of Materials Science (KIMS)	Improving the wettability of Cu ultra-thin film on ZnO surface by gas additives: A density-functional study	
P1708_1038	DEBBICHI LAMJED	Korea Advanced Institute of Science and Technology (KAIST)	Self-interaction error in band-edge of low-dimensional materials due to the presence of lone pair electrons	

P1708_0864	Byung Chul Yeo	Korea Institute of Science and Technology (KIST)	High-Throughput Screening to Investigate between Selectivity and Working Capacity of Porous Materials in Propylene/Propane Adsorptive Separation	●
July 14(Fri.)				
P1708_0409	Won-Ho Lee	Gangneung-Wonju National University	Three-Dimensional Computations on Thermal Behavior between Arc Plasmas and Electrodes for Synthesizing Nanoparticles	●
P1708_0971	Yeon-Ju Kim	Gangneung-Wonju National University	Gangneung-Wonju National University	●
P1708_0322	Mi Young Jeon	Hongik University	Effect of heteroleptic dual donor and dual acceptor for Dye-sensitized solar cells	
P1708_0323	Geon Hyeong Lee	Hongik University	Benzofurodipyrzine-based a highly efficient Thermally Activated Delayed Fluorescence Emitter	
P1708_0383	Kuan-Ting Chen	National Chung Hsing University	Negative-Capacitance FinFET Beyond the 7nm Node	
P1708_0488	Seungchul Kim	Korea Institute of Science and Technology (KIST)	Simulation-experiment collaborations in dopant engineering in wide band gap solids	
P1708_0450	Heechae Choi	Virtual Lab Inc.	Defect Engineering for Strong Photocatalysis of Nb-doped TiO ₂ Nanoparticles: DFT Calculations and Experimental Verifications	
P1708_0454	Heechae Choi	Virtual Lab Inc.	DFT-guided Thermal Treatment on Green-light Emitting Bi-doped Y ₂ O ₃ Phosphor	
P1708_0866	Seung-Yeol Jeon	Korea Institute of Science and Technology (KIST)	Demonstration of the intrinsic localization of photonic waves in a three-dimensional quasicrystal	
P1708_0916	Haedong	Korea Institute of Science and Technology (KIST)	Double layered three-way junction derived by nano DNA: Molecular dynamics simulation and experiments	
P1708_1039	Muhammad Ejaz Khan	Korea Advanced Institute of Science and Technology (KAIST)	Development of an effective mass approach for CdS quantum rods based on first-principles data	
P1708_0684	Bohyun Hwang	University of Seoul	A DFT Study of H ₂ S Dissociation on Ni and Ni-based Bimetallic Alloy Surfaces	●
P1708_0700	Kyeounghak Kim	University of Seoul	Density Functional Theory Study of Decalin Dehydrogenation to Naphthalene on Pd(111) and Pt(111)	●
P1708_0716	Yong Youn	Seoul National University	Multi-scale simulation for molecular orientation and charge transport in vapor-deposited organic thin film	
P1708_0887	Kang-Seop Yun	Korea Institute of Science and Technology (KIST)	Solid-Electrolyte Interface(SEI) Formation on Si/SiO _x Anodes of Lithium Ion Battery: Reactive Molecular Dynamics Simulation	●

P1708_0941	Sung-Yup Kim	Korea Institute of Science and Technology (KIST)	Ru/N/H ReaxFF force field development for ammonia synthesis on Ruthenium surface	●
P1708_0015	Jae Hwa Seo	Kyungpook National University	Design Optimization and Analysis of Ge/GaAs-based Gate-All-Around (GAA) Arch-shaped Tunneling Field-Effect Transistor (TFET)	
P1708_0171	Min Su Cho	Kyungpook National University	Design and Analysis of Capacitorless 1T-DRAM based on Double-gate Tunneling Field Effect Transistor	●
P1708_0172	Bo Gyeong Kim	Kyungpook National University	Simulation of 1T-DRAM based on Symmetric Double-Gate Si Junctionless Transistor	●
P1708_1053	Min Choi	Ulsan National Institute of Science and Technology (UNIST)	Excited electron dynamics in the 2H-1T heterophase of monolayer MoS ₂ : time dependent density functional theory study for photo-catalytic mechanism process	●
P1708_1055	Hyun Woo Kim	Korea Research Institute of Chemical Technology (KRICT)	Semiclassical simulations of vibrational effects in energy transfer processes	