

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

Presentation No.	Presenter	Affiliation	Title	Remarks	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 Cho	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 Cho	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	Siti Aisyah Nurmaulia Entifar	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 nanowires for 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	Joonsung 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/WSe2 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 AlGaIn/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 MoS ₂ 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 MoS ₂ 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	JeoungGeun 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_0917	Yushin Kim	Korea Advanced Institute of Science and Technology (KAIST)	Transformed whispering gallery modes in a cavity with spatially varying thickness	presentation schedule is changed	●
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		●
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NANO KOREA 2017 Poster Presentation Schedule

TS02. Advanced Nanomaterials

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

Presentation No.	Presenter	Affiliation	Title	Remarks	Award Participation
July 12(Wed.)					
P1702_0141	Si-hoon Jang	Korea Institute of Industrial Technology (KITECH)	Synthesis and characterization of polyimide-halloysite nanotubes nanocomposite materials	presentation scheduel is changed	
P1702_0192	Bo Ram Lee	Korea Institute of Industrial Technology (KITECH)	Manufacturing and characterization of poly(lactic acid) using list polymerization reactor	presentation scheduel is changed	
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	Korea 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_0505	Ji-Hoon Lee	Korea Institute of Materials Sience (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 WO3 nanorods		●
P1702_0765	Yeon Ju Lee	Korea Institute of Science and Technology (KIST)	Titanium Dioxide (TiO2) 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_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 uncorporated with Al powders		
P1702_0637	Wan-Tae Kim	Gangneung-Wonju National University	Effect of Ti crystal orientation on formation of TiO2 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 Mesoporosity 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 decoration agents based on Prussian blue caged with cellulose for the removal of cesium ions from gastrointestinal tract		●
P1702_0753	Sangjin 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	Ye Sub Hyun	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 Bipyramid 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-Curable 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_0382	Sae-Rom Kwak	Chosun University	Fabrication and characterization of 3D graphite or graphene reinforced Cu composite	presentation scheduel is changed	●
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	Hyebin Lee	Korea Institute of Science and Technology (KIST)	Nanostructured Polycarbonate for Robust Transparency and Anti-fogging by Control of Self-masking Metallic Clusters		●
P1702_0578	Jae-Seok Yu	Seoul National University	DNA translocation through a nanopore in self-assembly peptide membrane	presentation scheduel is changed	●
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_0589	Byoung-Joon Kim	Andong National University	Evaluation of mechanical reliability of metal interconnect on flexible substrate and international standardization	presentation scheduel is changed	
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 University	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 solar hydrogen production		
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 electro-catalyst 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		●
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 Tsendenbal	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_0177	Nguyen minh Thuyet	University of Ulsan	Mechanical and magnetic properties of Ni-graphite nanocomposite synthesized by electrical explosion of wire followed by spark plasma sintering	presentation scheduel is changed	
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_0142	Yang No Yun	Korea Institute of Energy Research (KIER)	Fabrication of Mixed Matrix Membrane based on MOP and XLPEO for CO2 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_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	SooJin 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		
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		●
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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 13(Thu.) 16:00-17:00 · Best Poster presentation : July 14(Fri.) 13:15-14:15
 July 14(Fri.) 12:15-13:15

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	Jungeun Lim	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_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	Korea University	Study on direct transfer characteristics of graphene using micro-contact printing	●
P1703_1018	Eun-chae Jeon	Korea Institute of Machinery and Materials (KIMM)	Nanofabrication of brittle materials using single crystal diamond tool	●

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_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 13(Thu.) 16:00-17:00 · Best Poster presentation : July 14(Fri) 13:15-14:15
 July 14(Fri) 12:15-13:15

Presentation No.	Presenter	Affiliation	Title	Remarks	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_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 Biotechnology (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 Nanoplatform 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	Korea 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 Biotechnology (KRIBB)	Sensitive and Specific Detection of Telomerase 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_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	presentation scheduel is changed	
P1704_0154	Jun Ki Ahn	Korea Advanced Institute of Science and Technology (KAIST)	A new ATP detection method utilizing glucose oxide in glucose meter	presentation scheduel is changed	
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	Korea 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	Korea 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_0727	Jaehyun Kang	Seoul National University	High-throughput Nucleic Acid Extraction Method Using SiNx Nanofilter Device	presentation scheduel is changed	●
P1704_0746	Viet Duc Phung	Gachon University	Gold-silver core-shell nanoparticles as high-performance SERS substrates for detecting dopamine in human serum		●
P1704_0757	Soojung kim	Pusan National University	Highly-resolved fluorescence imaging on vertical nanopillar array terminated Au nanoparticles for investigation of inner cell environment	presentation scheduel is changed	
P1704_0791	Seunghun Lee	Pusan National University	Tunable Laser based Enhanced Optical Sensor using a Nanowire Structure	presentation scheduel is changed	●
P1704_0948	Jusang Yang	Korea 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	Korea University	Improved Performance of Enzymatic Biofuel Cells based on Enzyme Stabilization on Polyaniline Nanofibers		●
P1704_0809	Jinchul Ahn	Korea 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 MoS2 FET-based real-time detection biosensor for point-of-care monitoring		●
P1704_0161	Cho Yeon Lee	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 Biotechnology (KRIBB)	Label-free, in situ detection of cell-free expressed protein using plasmonic nanosensor		
P1704_0798	Jaehoon Kim	Korea 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 Biotechnology (KRIBB)	Facile Immobilization of Antibody using Polydopamine and Protein G Mixture: Toward Substrate-Free Influenza Virus Detection		
P1704_0949	Youngkyu Cho	Korea University	Ion concentration polarization based pre-concentration without pH change.		●
P1704_0054	Byeonggeol Mun	Yonsei University	Efficient microRNA delivery system consisting of cholesterol-conjugated microRNA 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_0600	Jeung Hee An	Konkuk University	Enhanced Effect of Holmium Coated Magnetic Nanoparticles for Contrast Agents in Prostate Cancer Mice Model using Ultra-high Field Magnetic Resonance Imaging	presentation scheduel is changed	
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_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	Korea University	The review of detecting ultra-sensitive nano toxic ions using various methods		●
P1704_0642	Woong Kim	Korea 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 Biotechnology (KRIBB)	Proximity-HCR (Hybridization Chain reaction) biosensor for detection pathogens		●
P1704_0729	Yun Ju Sung	Korea Research Institute Bioscience and Biotechnology (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		

NANO KOREA 2017 Poster Presentation Schedule

TS05. Nanotechnology for Energy

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

Presentation No.	Presenter	Affiliation	Title	Remarks	Award Participation
July 12(Wed.)					
P1705_0039	Seung Yeon Son	Gachon University	Crab-shell biotemplated SnO ₂ composite anodes for lithium-ion batteries		
P1705_0078	Soo Hyun Lee	Gachon University	Intermetallic alloy composite materials for high-performance sodium-ion storage		
P1705_0086	Niyitanga Theophile	Daegu University	Poly(vinyl alcohol) and thermal reduced graphene oxide composite for energy storage devices		●
P1705_0133	Hyeonggi Kim	Gachon University	Comparative Study on the Mechanically Milled MoS ₂ and MoSe ₂ in Graphite Matrix as Anode Materials for High-Performance Lithium-ion Batteries		
P1705_0197	Minh Hai Tran	Daegu University	Effect of carbon structure on capacitance of ruthenium-carbon composites		●
P1705_0240	Hyung Seok Kong	Inha University	Porous cobalt oxide prepared using various surfactants for oxygen reduction reaction (ORR)		●
P1705_0246	Jieun Kim	Inha University	Porous manganese oxides using hydrothermal method with surfactants for rechargeable lithium-air Battery		●
P1705_0344	Jae-Yeon Yang	Korea Institute of Carbon Convergence Technology (KCTECH)	Mesophase pitch/phenol-formaldehyde carbon with ordered/disordered bimodal mesoporous carbon for electrode materials		
P1705_0374	Wadha Alshammari	Yeungnam University	Silver nanowires/Cadmium sulfide core shell nanostructure for electrochemical supercapacitors		●
P1705_0397	Danyun Lei	Chonbuk National University	Fabrication of Phenolic Resin Enhanced PAN-based Carbon Nanofibers for Flexible Supercapacitor Applications		
P1705_0399	Tae-Hoon Ko	Chonbuk National University	Fabrication of Triboelectric Nanogenerator Integrated Supercapacitor for Wearable Applications		
P1705_0437	Soon-Ki Jeong	Soonchunhyang University	Effects of electrolyte concentration on surface film formation on graphite in ethylene carbonate-based solutions		
P1705_0441	Hujjin Kim	Korea Institute of Industrial Technology (KITECH)	Electrochemical Performance of TiO ₂ /Nanocarbon-based Nanofibers by Electrospinning as an Energy Storage Material		●

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 Phoohinkong	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_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 xLa ₂ /3-x□1/3-2xTiO 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)	Development of Ni-Ca catalyst supported on hierarchically porous Al ₂ O ₃ for hydrogen production in methane steam reforming		
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	Korea 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	Korea 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	Korea University	Adsorption properties of mono-dispersed DDR zeolite particles synthesized via seeded growth method		●
P1705_0643	Young-Hoon Cho	Korea 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	Minki Baek	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-Ill 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	Mykola Slazhniev	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	Hydrougrading 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	Korea University	Highly active SiO ₂ @Pd@CeO ₂ core-shell catalystfor CO and propylene oxidation		●

P1705_0590	Min June Kim	Korea University	Application of meso-nickel manganese oxide for the hydrogen peroxide decomposition		●
P1705_0599	Deok Yeon Jo	Korea 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	Korea 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 Tsege	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		
P1705_0321	Kwang Se Lee	National Nonofabricktion Center (NNFC)	Electrochemical properties of multi-walled carbon nanotubes treated with nitric acid for a supercapacitor electrode	presentation scheduel is changed	

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	Remarks	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_0615	Young Jun Kim	KIST Europe	Single- and mixture toxicity of three ZnO, F ₂ O ₃ and ZnS on Daphnia magna	presentation scheduel is changed	
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 (KRISS)	A method to measure of the liquid suspension nanoparticle size in aerosols		
P1706_0783	Hyunpyo Jeon	KIST Europe	Introduction of Eco-PDS: An eco-friendly product design support tool for screening mixture toxicity of chemical products	presentation scheduel is changed	●
P1706_0785	Sanghun Kim	KIST Europe	CLP Mix-Tool: A web-based estimation tool for hazard classification of mixture products under the EU CLP regulation	presentation scheduel is changed	●
P1706_0802	Hye-Young Son	Yonsei University	Manganese oxide inner structure and outter 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	Korea Research Institute Bioscience and Biotechnology (KRIBB)	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_0611	Sanghun Kim	KIST Europe	Overview of EU legislation on nanomaterials	presentation scheduel is changed	
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 methodfor evaluation of ecotoxicity		●
P1706_0764	Sanghun Kim	KIST Europe	Implications of polarity based fractions of Pony Lake Fulvic Acid on the fate of silver nanoparticles	presentation scheduel is changed	●
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 EU		

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	Remarks	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	Hyoun 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 Biotechnology (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	Imtisal Akhtar	Sejong University	Through Silicon via Imaging for 3D Integrated Circuits using MWCNT based AFM Probe		●
P1707_0510	Yoo Min Park	National Nonofab 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_1078	Wan-Sik Woo	Changwon National University	Development of a Variable Preload Spindle by using a Linear Actuator	presentation schedule is changed	
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 In2O3 Transistor Sensor Functionalized With 3-Aminopropyltriethoxysilane		
P1707_0712	Jae-Hyoung Lee	Inha University	Gas sensing properties of n-SnO2-p-Co3O4 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	Bora 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		●
P1707_0608	Joohyung Park	Korea University	Small molecules detecting using nanoporous resonator	presentation schedule is changed	
P1707_0818	Kirok Kwon	Yonsei University	Continuous enrichment of airborne bacteria using Concanavalin A-coated herringbone microfluidic chip	presentation schedule is changed	
P1707_0981	Sanghyuck Lee	Korea Research Institute Bioscience and Biotechnology (KRIBB)	Conducting polymer nanotubes-based field effect transistor for in-vitro dopamine detection	presentation schedule is changed	
P1707_0639	Taekeon Jung	Gwangju Institute of Science and Technology (GIST)	Droplet based microfluidic platform integrated with iridium oxide pH electrode for continuous pH monitoring of droplet	presentation schedule is changed	

P1707_1006	Kyungho Kim	Chonnam National University	Field-effect transistor (FET)-type bacteria sensor using graphene few-layers	presentation schedule is changed	●
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NANO KOREA 2017 Poster Presentation Schedule

TS08. Computational Nano Science & Technology

· 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	Remarks	Award Participation
July 12(Wed.)					
P1708_0619	Yeon-Ho Lee	Sungkyunkwan University	Structural Characteristics of a Conical-frustum-patterned Stretchable Heater with External Force Environment	presentation schedule is changed	●
P1708_0816	Kunanon Chattrairat	King Mongkuts Institute of Technology Ladkrabang.	Investigation of functional graphene/pesticide molecules by using DFT calculation	presentation schedule is changed	●
P1708_0841	Kayoung Yun	Korea Institute of Science and Technology (KIST)	A new insight into metal-organic hybrid interfaces	presentation schedule is changed	●
P1708_0409	Won-Ho Lee	Gangneung-Wonju National University	Three-Dimensional Computations on Thermal Behavior between Arc Plasmas and Electrodes for Synthesizing Nanoparticles	presentation schedule is changed	●
P1708_0971	Yeon-Ju Kim	Gangneung-Wonju National University	Gangneung-Wonju National University	presentation schedule is changed	●
P1708_0322	Mi Young Jeon	Hongik University	Effect of heteroleptic dual donor and dual acceptor for Dye-sensitized solar cells	presentation schedule is changed	
P1708_0323	Geon Hyeong Lee	Hongik University	Benzofurodipyrzine-based a highly efficient Thermally Activated Delayed Fluorescence Emitter	presentation schedule is changed	
P1708_0383	Kuan-Ting Chen	National Chung Hsing University	Negative-Capacitance FinFET Beyond the 7nm Node	presentation schedule is changed	
P1708_0488	Seungchul Kim	Korea Institute of Science and Technology (KIST)	Simulation-experiment collaborations in dopant engineering in wide band gap solids	presentation schedule is changed	
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 C ₂ N		●
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_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}		●
P1708_0577	Ho-Young Lee	Changshin University	Cooling Characteristics by Magnetoconvection Effects for Vegetable Transformer Oil Based Magnetic Nanoparticles		

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		
July 13(Thu.)					
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_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_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		●
P1708_0684	Bohyun Hwang	University of Seoul	A DFT Study of H ₂ S Dissociation on Ni and Ni-based Bimetallic Alloy Surfaces	presentation schedule is changed	●
P1708_0700	Kyeounghak Kim	University of Seoul	Density Functional Theory Study of Decalin Dehydrogenation to Naphthalene on Pd(111) and Pt(111)	presentation schedule is changed	●
P1708_0716	Yong Youn	Seoul National University	Multi-scale simulation for molecular orientation and charge transport in vapor-deposited organic thin film	presentation schedule is changed	
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	presentation schedule is changed	●
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	presentation schedule is changed	●
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)	presentation schedule is changed	
P1708_0171	Min Su Cho	Kyungpook National University	Design and Analysis of Capacitorless 1T-DRAM based on Double-gate Tunneling Field Effect Transistor	presentation schedule is changed	●
P1708_0172	Bo Gyeong Kim	Kyungpook National University	Simulation of 1T-DRAM based on Symmetric Double-Gate Si Junctionless Transistor	presentation schedule is changed	●
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	presentation schedule is changed	●
P1708_1055	Hyun Woo Kim	Korea Research Institute of Chemical Technology (KRICT)	Semiclassical simulations of vibrational effects in energy transfer processes	presentation schedule is changed	