

NANO KOREA 2016 Poster Presentation Schedule

TS01. Nanoelectronics and Photonics

• Set-up : July 13(Wed.) - July 15(Fri.) 08:00-08:45
 • Tear-down : July 13(Wed.) - July 14(Thu.) 16:00-17:00
 July 15(Fri.) 14:00-15:00

• Presentation : July 13(Wed.) 11:00-12:00
 July 14(Thu.) - July 15(Fri.) 11:30-12:30

Submission No.	Presenter	Affiliation	Title	Award Participation
July 13(Wed.)				
P1601_0043	Youn Ho Park	Korea Institute of Science and Technology (KIST)	Observation of spin dependent electrochemical potentials at room temperature in a quantum well structure	●
P1601_0062	Shin-young Jeong	Korea Institute of Science and Technology (KIST)	All-solution processed near-UV quantum dot light-emitting device	●
P1601_0068	Seungho Kim	The Catholic University of Korea	Bulky Substitution Group Effect to Emitting Materials for OLEDs	
P1601_0074	Kyul Ko	Seoul National University	Analysis and Comparison of Work Function Variation for 5nm node Single Nanowire FET and 3D Stacked Nanowire FET Devices	●
P1601_0075	Youngsoo Seo	Seoul National University	Analysis of current-boosting using strain engineering and trenched source/drain in single & stacked nanowire FET	●
P1601_0089	Dokyun Son	Seoul National University	Characteristics of Vth variation according to parameters of line edge roughness (LER) in 5 nm node Nano-wire FET	●
P1601_0095	Sihyun Sung	Hanyang University	Nonvolatile memory devices fabricated utilizing Au nanoparticles embedded in a poly(methylmethacrylate) layer on Ag nanowire transparent conductive electrodes	
P1601_0097	Young Jun Yoon	Kyungpook National University	Effect of electric fringe-field on low-power and radio-frequency performance of sub-10 nm junctionless transistors with hetero-dielectric spacer structure	
P1601_0124	Hyunhak Jeong	Seoul National University	Redox-Induced Conformational Changes in Charge Transport Characteristics of a Ferrocene-Alkanethiolate Molecular Electronic Device: Temperature-Dependent Transition Voltage Spectroscopy Analysis	●
P1601_0126	Jun Gyu Lee	Hanyang University	Effect of the cylinder shape string thickness in the electrical characteristics of 3D V-NAND flash memory devices due to symmetric electric field distribution	
P1601_0130	Doohyeok Lim	Korea University	BJT mode operation in silicon nanowire transistors on bendable substrates for future capacitor-less one-transistor DRAM	●
P1601_0136	Hyungon Oh	Korea University	Electrical characteristics of bendable a-IGZO TFTs with five split channels	●
P1601_0143	Won Joo Lee	Pusan National University	Tunnel Fin Field-Effect Transistor with Asymmetric Gate	●
P1601_0180	Hyounguk Kim	Korea Institute of Science and Technology (KIST)	Plasmonic substrate composed of an array of dielectric ZnO nanorods for enhancement of the metallic plasmonic resonance	●
P1601_0192	Dong Gyu Kim	Korea Institute of Science and Technology (KIST)	Highly flexible Ag nanowire embedded transparent electrode with welded junctions using vapor pressure	●

P1601_0196	Jemin Kim	Korea Electronics Technology Institute (KETI)	Study on the reliability of low Ag solder ball joint under thermal shock and thermal cycling tests	●
P1601_0219	Yang Liu	Yonsei University	Homogeneous Liquid Crystal Alignment on Ion Beam-Induced Y2Sn2O7 Layers	●
P1601_0225	Hae-Chang Jeong	Yonsei University	Advanced liquid crystal systems based on IB-irradiated oxide films	●
P1601_0238	Joonsung Ahn	Hanyang University	Program/erase characteristic variations of the vertical NAND flash memory devices dependent on channel layer thicknesses	
P1601_0239	WooJae Lee	Yonsei University	Reversible Electrochemical Black Window Using Conductive Nanoparticles	●
P1601_0277	Min Su Cho	Kyungpook National University	Design and Analysis of Logic Inverter Using Antimony-based Compound Semiconductor Junctionless Transistor	●
P1601_0285	Hong-Ki Park	Kyung Hee University	Interfacial Oxide Thickness Dependent Interface State Characterization of Graphene-Silicon Heterojunction Devices with using Impedance spectroscopy	●
P1601_0294	Ji Hwan Lee	Hanyang University	Luminance switching mechanisms of organic bistable light-emitting devices fabricated utilizing an aluminum nanoparticle-embedded tris(8-hydroxyquinoline)aluminum layer	●
P1601_0304	Uiyeon Won	Sungkyunkwan University	Electric-field induced Si-graphene heterostructure solar cell using top gate	
P1601_0308	Ilmin Lee	Sungkyunkwan University	Electrically and Mechanically Modulation of Schottky Barriers Height in Flexible Transistor based on Bi-layer MoS2	
P1601_0322	HyunSeunKoh	Hanyang University	Reduction of the blooming effect in CMOS image sensors utilizing backside deep trench isolation	
P1601_0334	Chia-Feng Lee	National Chung Hsing University	Hole Mobility Model in Ge MOSFET Inversion Layer With Piezoresistance Coefficients	
P1601_0338	Tae Wan Kim	Kyungpook National University	EMI Suppression through Output Capacitance Control by Tilted Low Dose Implantation on Deep Trench Super-Junction Power MOSFET	●
P1601_0344	Soo-Min Park	Hannam University	Analysis of magnetic states in a pseudo spin-valve nanostructure	
P1601_0387	Cheol-Min Lim	Kwangwoon University	Effects of soft baking temperature on solution-based In-Ga-Zn-O Thin Film Transistors	
P1601_0403	Park Gyeong Tae	Gumi Electronics and Information Technology Research Institute	The Effect of Titanium Dioxide Nanocomposite Gate Insulator in Solution-Processed 6, 13-Bis(triisopropylsilyl ethynyl)-Pentacene Thin-Film Transistors	
P1601_0456	SE HYUK YEOM	Gumi Electronics and Information Technology Research Institute	Coupling efficiency enhancement of organic light emitting devices with microlens array on simply fabrication method	
P1601_0558	Hyun Ah Lee	Kookmin University	Effect of Al2O3 Encapsulation layer on Multilayer MoSe2 Field-Effect Transistors	●
P1601_0889	Hyun Jung Baek	Hongik University	Efficient Dual Exciplex Emitting Layer for White Organic Light-Emitting Diodes	
P1601_0894	Yohan Lee	Seoul National University	Complex field measurement on metasurfaces via digital off-axis holography	

P1601_1017	Woo Jin Jeong	Korea Advanced Institute of Science and Technology (KAIST)	Efficient atomistic simulation of InAs ultra-thin body tunnel FETs based on the TB-NEGF method	●
P1601_1023	Taeyueb Kim	Korea University	Magneto-switching device by impact ionization in non-magnetic semiconductor	
P1601_1035	Young-Dae Cho	Yonsei University	Defect reduction in Selective InP Epitaxial Growth on V-grooved Trenches of Si (001) substrates by Metal Organic Chemical Vapor Deposition	
P1601_1057	Jiho Joo	Electronics and Telecommunications Research Institute (ETRI)	100 Gb/s photoreceiver module based on 4ch × 25 Gb/s vertical-illumination-type Ge-on-Si photodetectors and amplifier circuits	
P1601_1061	Hee gym Park	Korea Institute of Science	Electrical synchronization of two spin-torque nano oscillators	
P1601_1088	Kwangse Ko	Korea Polytechnic University	Effect of Mg compensation in GaN buffer layer for AlGaIn/GaN HEMTs on 4H-SiC substrate	●
P1601_1103	Keun yong Lim	Korea Institute of Science and Technology (KIST)	Fully solution-processed flexible inverted organic solar cells with hybrid silver nanowire electrodes	●
P1601_1125	Ji Ae Yoo	Gwangju Institute of Science and Technology	Direct Analysis of the Surface potential of chemical doped graphene using Electrostatic Force Microscopy	●
P1601_1156	Young Jin Kim	Korea University	Comparison of perpendicular magnetic anisotropy in CoFeSiB-Pd multilayer and alloy films	●
P1601_1165	Boyoung Kang	Center for Advanced Meta-materials	Asymmetric transmission in reciprocal a 2D metamaterial	
July 14(Thu.)				
P1601_0026	Mohammed Nazim	Chonbuk National University	Design of Fumaronitrile-based organic small molecule for organic solar cells	●
P1601_0056	Inah Yeo	Korea Institute of Science and Technology (KIST)	Hybrid quantum optomechanics with quantum-dot single photon source	●
P1601_0111	Sel Gi Ryu	Chonbuk National University	Influence of Nano-textured Surface on Characteristic of Al-doped Zinc Oxide Thin Films for Application of Crystalline Silicon Solar Cell	●
P1601_0112	Hyung Yong Ji	Korea Institute of Industrial Technology (KITECH)	Characteristic of RF Magnetron Sputtered Indium Tin Oxide Thin Films on Nano-textured Surface for Application of Crystalline Silicon Solar Cell	●
P1601_0147	Nhu Hoa Thi Tran	Gachon University	Surface plasmon resonance enhanced detection of DNA fluorescence	●
P1601_0153	Gwanhoyoon	Pohang University of Science and Technology (POSTECH)	Metasurface-based reconfigurable visible light absorber	●
P1601_0175	Srikanta Palei	Chonbuk National University	Fabrication of Alternate Hetero p-n Junctions in GaAs/Si HCT Solar Cells	●
P1601_0207	William Barela	University of Science & Technology (UST)	Practice on AWG design using layout tool	●
P1601_0248	Jiwoong Baek	Yonsei University	Optical Characteristics of Ge-on-Si after Phosphorus Implantation for Monolithic Integration on Si Platform	●

P1601_0290	Xianji Piao	Seoul National University	Temporal coupled mode analysis for optical spin resonances in 2D, 3D chiral and gyrotropic materials	●
P1601_0291	Sunkyu Yu	Seoul National University	Artificially disordered potentials based on the competition between diagonal and off-diagonal disorders	●
P1601_0327	Young Jun Shin	Sungkyunkwan University	IMIMI Vertical Directional Coupler with Surface Plasmon Polariton Waveguides	●
P1601_0328	Ren-Yu He	National Chung Hsing University	Detection of Charged Proteins with a Bio-Sensor Device Using Semiconductor Thin Film on Insulator Structure	
P1601_0352	Kyunho Jung	University of Seoul	Effect of SiOx double thin layers insertion on bipolar resistive switching characteristics for nonvolatile memory application	●
P1601_0353	Eui Jung Myeong	Sejong University	Encryption of Programmed Data of Resistive Switching Memory Devices for Information Protection	●
P1601_0363	Hunsang Jung	Myongji University	Characteristic of resistive switching of ZnO NPs multilayer by cortisol and its antibody binding driven layer-by-layer	
P1601_0396	Yeon Ui Lee	Ewha Womans University	Observation of extrinsic orbital Hall effect in cyclic group symmetric metamaterial	●
P1601_0404	Sung Jun Park	Pukyong National University	The morphology and photoluminescence characterization of the Gd(OH)3 and Gd2O3 doped Eu3+ under different pH conditions	●
P1601_0406	Jung Sik Joo	Pukyong National University	Synthesis and luminescent of red emitting Ca14-xMxZn6Al10O35:Mn4+ (M = Sr, Ba) phosphor	●
P1601_0473	Ala'aDdin Al Shidaifat	Inje University	Modeling of an electronic retina using CNT device	●
P1601_0486	Jong-ryul Choi	Daegu-Gyeongbuk Medical Innovation Foundation (DGMIF)	A preliminary study of plasmonic enhanced sensors using nanostructured honeycombs arrays – a theoretical approach	
P1601_0510	Sun-Je Kim	Seoul National University	Ultrasharp plasmonic resonance viaBabinet-inverted coupling of multi-layered thin gold nanoslit arrays	●
P1601_0512	Joonsoo Kim	Seoul National University	Cavity mode analysis for design of efficient, broadband, compact plasmonic waveguide mode converters	
P1601_0551	Sunae So	Pohang University of Science and Technology (POSTECH)	Studies of negative refraction in multilayered metamaterials	●
P1601_0557	Mohammad Ehtisham Khan	Yeungnam University	Tailoring Energy Bandgap of Pristine-Graphene using Electron Beam Irradiation for Boosted Photoelectrochemical Applications	●
P1601_0610	Waqar Khan	Dongguk University	Zinc oxide nanorod-based p-i-n ultraviolet photodetector using native oxide as a tunneling insulator	●
P1601_0611	tae-hee Yoo	Korea Institute of Science and Technology (KIST)	1-Dimensional InGaZnO Field-Effect Transistor on Polymer Wire Substrate for Electronic Textile	●
P1601_0670	Young-Gu Ju	Kyungpook National University	The performance analysis of a mobile optical system using finite-difference time-domain method	●
P1601_0677	Soa Bang	Hanyang University	Graphene/polystyrene composite for flexible pressure sensor	●

P1601_0711	Kai-Chi Chuang	National Chiao Tung University	A Novel Resistive Random Access Memory (RRAM) Device with Field-Enhanced Cross-Point Structure	●
P1601_0741	Thi Vu Nu Truong	Gachon University	Label-free optical biosensors based on an optical waveguide with its cladding modulated for sensor optimization	●
P1601_0773	Hojun Seo	Hanyang University	Electrical characteristics of atomic layer deposition-grown SnS ₂ field-effect transistors	●
P1601_0774	Haider Abbas	Myongji University	Resistive Switching Characteristics of Tantalum Oxide and Titanium Oxide Heterojunction Device	●
P1601_0776	Jung Hoon Park	Korea Advanced Institute of Science and Technology (KAIST)	Miniaturized Circular Polarization Analyzer using Metal-Dielectric-Metal (MDM) Structure	●
P1601_0831	Sohee Kim	Hanyang University	SnS ₂ vertical field-effect transistor on hBN substrate with graphene bottom gate electrode	●
P1601_0837	Kyookeun Lee	Seoul National University	Measurement of the Stokes vector of light using vortex-lens-like distributed nano-grooves	
P1601_0838	Minjae Kim	Hanyang University	Effect of fluorine doping on the electrical characteristics of SnS ₂ field-effect transistors	●
P1601_0846	Shin Eunsu	Daegu-Gyeongbuk Institute of Science and Technology (DGIST)	Near-infrared Narrow-band pass filters to decrease ambient light errors on active type dual band infrared image sensors	●
P1601_0867	Sangwon Ham	Korea University	Design of 1-Dimensional RGB composited guided-mode resonance color filter	
P1601_0896	Gun-Yeal Lee	Seoul National University	Polarization multiplexed hologram via broadband metasurfaces	●
P1601_0903	TaeHyung Kim	Korea University	Sensitive Detection of Optical Activity using Plasmonic Nanoparticles	●
P1601_0929	Hyung Suk Hwang	Korea University	Photoluminescence signal transfer of Organic Hybrid of Rubrene Microrods and Gold Nanoparticles: Applications Ultra-sensitive Remote Bio-sensing	●
P1601_0941	Quanli Hu	Myongji University	Resistive switching characteristics in MnO nanoparticle assembly and Ag ₂ Se thin film devices	●
P1601_1078	Yongjae Kim	Yonsei University	Silicon Nanoelectrode Array for Direct Insertion of Living Algal Cells	
P1601_1124	Byung-Seok Choi	Electronics and Telecommunications Research Institute (ETRI)	10-Gb/s Polymer-based Tunable External Cavity Lasers	
July 15(Fri.)				
P1601_0226	Giyeol Bae	Hanyang University	A study of electric conductance due to Fermi level shift in graphene with metal contact	
P1601_0750	Young Kyung Oh	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Reusable and Highly Sensitive on Dual Gate Ion-sensitive Field-effect Transistor Biosensor for Diagnosis of Acute Myocardial Infarction (AMI)	
P1601_0850	Hyukjoon Cho	Korea Advanced Institute of Science and Technology (KAIST)	Near-field Coupling between Transformed Whispering Gallery Modes	

P1601_0868	Un Jeong Kim	Samsung Advanced Institute of Technology (SAIT)	Mechanism study on the enhanced photocurrent of graphene by the nanopatterns of block-copolymer and metal nanoparticles	
P1601_0871	Do Kyung Hwang	Korea Institute of Science and Technology (KIST)	Ultrasensitive PbS Quantum Dot-sensitized Metal oxide Hybrid Phototransistor and Photo-inverter for Near-infrared Detection and Imaging	●
P1601_0930	Seong Gi Jo	Koera University	Signal Transfer Characteristics of Raman and Surface Enhanced Raman Scattering (SERS) of Organic Crystalline Microrod	
P1601_0976	wonhee cho	Korea Advanced Institute of Science and Technology(KAIST)	Silver nanowire flexible, transparent, conductive film using plasticized polymer interlayer for low temperature process	●
P1601_1001	Young-Hoon Kim	Chonnam National University	Micro Silicon lens process by using dry etching and thermal reflow for Optical interconnection	
P1601_1012	Jaeho Choi	Chonbuk National University	Fabrication of SiO ₂ /SiN _x Double-Layer Anti-reflection Coating by Using Spin Coating	
P1601_1014	Seungon Song	University of Seoul	Properties of an asymmetric double barrier device using resonant tunneling and charging effects for nonvolatile memory application	●
P1601_1024	Jeung Pyo Oh	Chonnam National University	Origin of environmentally begin mechanoluminescence from micro-sized phosphor embedded in elastomer film.	●
P1601_1025	Myung-Joon Kwack	Electronics and Telecommunications Research Institute (ETRI)	Fabrication and characterization of the VCSEL-on-silicon	●
P1601_1034	Ki-Seok Jang	Electronics and Telecommunications Research Institute (ETRI)	High performance Ge-on-Si Avalanche Photodetector	●
P1601_1037	Byung-Wook Lim	Inha University	Arrayed Waveguide Grating Simulation for the Fiber Bragg Grating sensor interrogator application	
P1601_1066	Kyungjun Song	KIMM	Directional Reflective Surface Designed by Acoustic Meta-surfaces	
P1601_1071	Lee Khang June	Korea Advanced Institute of Science and Technology (KAIST)	Revealing quantum plasmon tunneling through Graphene spacer system	●
P1601_1074	SooJeong Baek	Korea Advanced Institute of Science and Technology (KAIST)	Polarization Ellipticity Modulation of THz Waves with Gate-controlled Graphene Metadevices	
P1601_1082	Young-Ho Ko	Electronics and Telecommunication Research Institute (ETRI)	Design of spot-size converter for low polarization dependent loss of waveguide photodetector	●
P1601_1083	Chamindra Jayawickrama	Inje University	PSPIICE analysis of CNFET based logic circuits for low power applications	●
P1601_1092	Hak-Jong Choi	Korea University	Lithographically patterned Au nanotube array for light absorption enhancement	●
P1601_1096	Lee Dong Jun	Korea University	Fabrication of metallic nano-line electrodes using LIL process	
P1601_1100	Hyeong Woo Ban	Ulsan National Institute of Science and Technology (UNIST)	Highly luminescent all-inorganic semiconductor quantum dots	●
P1601_1104	Hyeok Kim	Korea Institute of Industrial Technology (KITECH)	Reduction of contact resistance in organic thin film transistors	●

P1601_1106	Hyun Sung Park	Korea Advanced Institute of Science and Technology (KAIST)	Nondispersive phase modulation with liquid-crystal controlled metasurface	●
P1601_1110	Yoon-Jong Moon	Kyung Hee University	High-Index-Contrast Hollow Cavities for Strong-Diffraction Optical Devices	●
P1601_1116	Hyunseok Seo	University of Seoul	Effects of Grading layer in InP/InGaAs avalanche photodiodes	
P1601_1121	Dong-Eun Yoo	National Nanofab Center	The crystallized amorphous silicon for the Si-photonics device application using thermal annealing process	
P1601_1122	Chulwon Lee	Korea Advanced Institute of Science and Technology (KAIST)	Simultaneously achieved strain enhancement and photoluminescence blue-shift in Ge-on-Si by thermal annealing	●
P1601_1144	Heesu Kim	Pusan National University	Synthesis and characterization of pyrrolo-pyridazine based conjugated polymers for organic thin film transistor	
P1601_1145	Ho-in Lee	Gwangju Institute of Science and Technology (GIST)	Near Infrared Photon Absorption at Graphene Photodetectors Decorated with Black Phosphorus Flakes	●
P1601_1178	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	●
P1601_1193	Sung-Il Kim	Korea Institute of Machinery and Materials (KIMM)	Development of Implantable Micro Blood Pressure Sensor Using MEMS Fabrication and Ultrafast Laser Cutting	●
P1601_1198	Sohee Jeon	Korea Institute of Machinery and Materials (KIMM)	Vacuum Nanostructures Embedded Organic Light Emitting Diodes	

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TS02. Advanced Nanomaterials

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• Presentation : July 13(Wed.) 11:00-12:00

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Submission No.	Presenter	Affiliation	Title	Award Participation
July 13(Wed.)				
P1602_0025	Cheong-Soo Hwang	Dankook University	Applications of the Surface Tuned Colloidal ZnS:Mn Nanocrystal as Effective Fluorescence Sensor for the Detection of Transition Metal Cations or Anions in Aqueous Solution	
P1602_0046	Chan Woo Park	Korea Atomic Energy Research Institute (KAERI)	Small-angle neutron scattering analysis of morphology transition of amphiphilic graft copolymer micelles	
P1602_0054	Si-hoon Jang	Korea Institute of Industrial Technology (KITECH)	Preparation and characterization of non-woven carbon fiber/carbon nanotube composites materials by wet-laid process	
P1602_0060	Ho-Jong Kim	Yonsei University	Effects of Various Disorders on the Charge Transport in Thick Reduced Graphene Oxide Film.	

P1602_0110	Byung-Gwan Lee	SAMWHA CAPACITOR	The effect of negative / positive ratio on the electrochemical performance of LiMn2O4/AC pseudocapacitor	●
P1602_0131	Seon Ho Lee	Korea Institute of Energy Research (KIER)	Preparation and application of Graphited SiOx Nano Carbon composites	●
P1602_0149	Yoonho Eom	Korea Institute of Industrial Technology (KITECH)	Alcohol-soluble small host material for solution processed PhOLEDs	
P1602_0150	Yeon-Ju Kim	Gangneung-Wonju National University	Study on Two-Phase Flows with Magnetic Nanoparticles for Energy Harvesting	●
P1602_0155	KiChang Lee	Gyeongsang National University	Effect of TBOT concentration on the Preparation of PS/COPS-I/TiO2 core-shell particles	
P1602_0159	Jeong-Ho An	Gangneung-Wonju National University	Particle Tracing Simulations of Magnetic Nanoparticles in an Insulating Fluid for AC Breakdown Mechanisms	●
P1602_0165	Hoon Hur	Korea Institute of Industrial Technology (KITECH)	Preparation of Silicon Nanoball Encapsulated with Graphene Shell for Anode Material of Li-ion Battery	●
P1602_0166	Yun Jungwon	Korea university	Thermoelectric Properties of Ag2Se-HgSe Nanoparticle Thin Films on Plastic Substrates	
P1602_0178	Y. H. Jeong	Korea University	Effect of electron-electron interactions on topological properties of graphene nanoribbons	●
P1602_0179	Sukhoon CHOI	Korea Institute of Industrial Technology (KITECH)	PU-graphene oxide composite; effect of chain extender's structure on properties	●
P1602_0199	Min Eui Lee	Inha University	Activated carbon materials derived from corn stems for supercapacitor electrodes	
P1602_0235	Yeonju Lee	Korea Institute of Science and Technology (KIST)	Emissive CdTe-ZnO-GO Quasi-Core-Shell Hybrid Quantum Dots for White Light Emitting Diodes	●
P1602_0269	Yun Jae Lee	Korea Institute of Science and Technology (KIST)	Synthesis of nano ring shaped single wall carbon nanotube using the metal oxide particle-template	●
P1602_0289	Tae Hyeon Yang	KOREATECH	A nanoscale metal oxide-based templating method for the synthesis of disordered mesoporous carbons with high surface area	●
P1602_0292	Hye Jeong Yang	KOREATECH	A novel carbonization route toward the synthesis of conductive nanoscale carbon film-coated metal oxide particles	●
P1602_0311	Ye I. Choi	University of Texas at Dallas (UT Dallas)	Spinable Carbon Nanotube Grown in N2 Environment by Chemical Vapor Deposition Method	●
P1602_0320	Thuyet, Nguyen Minh	University of Ulsan	Synthesis and Properties of Nickel/Carbon Nanotube Nanocomposites via the Electrical Explosion of Wire in Liquid and Spark Plasma Sintering Method.	
P1602_0336	Jae-Yeon Yang	Korea Institute of Carbon Convergence Technology (KCTECH)	Soft-template Synthesis of Ordered Mesoporous Carbon from Mixture Ratio of the Phenolic Resin and Mesophase pitch	
P1602_0366	Yo-Han Kim	Myongji University	Solution processed hafnium oxide doped siloxane dielectrics for a thin film transistor with reduced graphene oxide channel on flexible substrate	
P1602_0385	Hongseok Jang	Chonbuk National University	Color expression and physical properties of white Portland cement mortar using carbon amino silica black	●

P1602_0393	Bo-Kyung	Inha University	High gas barrier films based on graphene oxide/polymer nanocomposites	
P1602_0399	Richard Hahnkee Kim	Yonsei University	Flexible 2D Transition Metal Dichalcogenide-Polymer Nanocomposite Photoconductor	
P1602_0421	Hywook Kim	Korea Advanced Institute of Science and Technology (KAIST)	Independently controllable multi-resonance m	●
P1602_0445	Changhyun Roh	Korea Atomic Energy Research Institute (KAERI)	Magnetic Prussian blue for adsorption of Cesium by proton-exchange	
P1602_0455	Yong Geun Kim	Korea university	Study on treatment of multi-layer graphene using inductively coupled plasma for electronic device	●
P1602_0468	Kiwon Cho	Gachon University	Activated Graphene Oxide / MWCNT Composite Based Soft Actuator to Overcome Drawbacks in Durability of Conventional Models.	●
P1602_0483	Hyein Seo	Seoul National University of Science and Technology (SEOULTECH)	Manipulation of Stability of High Aspect Ratio Nanopillars	●
P1602_0498	Yu-mi Ha	Korea Institute of Science and Technology (KIST)	Enhanced Physical Properties of Polyurethane Nanocomposites Incorporating High Temperature Treated Thin Multi-Walled Carbon Nanotubes	
P1602_0503	Eui Hyuk Kim	Yonsei University	High-performance Polymer Light Emitting Devices with Multi-walled Carbon nanotubes	
P1602_0504	Woo lim Choi	Seoul National University of Science and Technology (SEOULTECH)	Preparation of non-aggregated 100-nm-scale Cu particles by modified polyol synthesis using dual surfactant	●
P1602_0506	mohd nashaain nordin	SIRIM BHD	Mechanical agitation effect on synthesize polystyrene nanosphere properties for ammonia detection	●
P1602_0507	Kyung rock Son	Korea university	Localized surface plasmon effect using alumin	●
P1602_0511	Kangwook Kim	Korea Army Academy at Yeongcheon	Colorimetric Assay and Decontamination of 2-chloroethyl ethyl sulfide(2-CEES) using Citrate-capped Gold Nanoparticles	
P1602_0576	Ju Hyun Kim	Jeonnam Science High School	Room Temperature Preparation of Au Nanorods Using β -Diketones and β -Ketoamides	●
P1602_0581	Jae Hee Song	Sunchon National University	Room Temperature Decoration of Platinum Nanoparticles on Multi-walled Carbon Nanotubes	●
P1602_0603	Yu Hong Cheon	Korea Institute of Materials Science	Smooth and deformable Ag nanowire embedded transparent electrode	●
P1602_0636	Minkyoung Lee	Korea Institute of Materials Science (KIMS)	Facile fabrication of 3D hybrid plasmonic nan	●
P1602_0690	Dong Jae Kim	Korea Advanced Institute of Science and Technology (KAIST)	SERS-Active Microgels: A New Platform for Di	●
P1602_0712	Hong Hee Kim	Yonsei University & KIST	Fabrication of Brightly Deep Blue Light-Emitting Diode from Carbon Dot as Luminous Materials	●
P1602_0758	Youngmin Kim	Korea Electronics Technology Institute (KETI)	Healable Hydrophobic PDMS-based Polyurethanes	
P1602_0770	Jisoo Park	Seoul National University	Preparation of Edge Selectively Oxidized Graphene by Simple Modification of Hummers Method.	

P1602_0777	Jeong-Eun Park	Seoul National University	Interior gap-engineered nanocubes for enhanced	●
P1602_0842	Haedong Lee	Hanyang University	Bridging the gap of microchannels with horizontally aligned carbon nanotubes	
P1602_0858	Jeong Keun Kook	Gachon University	Facile synthesis of gold nanoshells with angulated hematite cores for biomedical applications	●
P1602_0860	Jae Ho Kim	Seoul National University	Facile preparation of porous MWCNT by air oxidation for high performance Li-S batteries	
P1602_0863	Young Shik Cho	Seoul National University	Preparation and characterization of nickel oxide decorated graphene fiber for energy storage textiles	
P1602_0920	Sunwoong Bae	Korea Advanced Institute of Science and Technology (KAIST)	Heterogeneous Growth of Silver Nanowires through	●
P1602_0931	Hung-Wen Hsu	Putian University	Photo-exfoliation of fluorinated graphene nanosheets with continuous illumination	●
P1602_0981	Young-Jun Lee	Inha University	Synthesis and Properties of Cellulose-POSS-SiO ₂ /AuO hybrid nanocomposites for high-performance materials	
P1602_0988	hyungjunelee	Hanyang University	Highly efficient oil-absorption with repeatedly dip-coated graphene into polyurethane sponge	●
P1602_1084	Hyun Do Song	Korea Institute of Carbon Convergence Technology (KCTECH)	Study on the characteristics of PAN-based carbon fiber according to facilitate graphitization of carbon nanotubes	
P1602_1101	Sora Ham	Korea Institute of Science and Technology (KIST)	Modelling of dielectric constant enhancement of P(VDF-TrFE)-nanoring CNT hybrid	●
P1602_1115	Taesik Min	Korea Institute of Materials Science (KIMS)	Thermoelectric Properties of Graphene-Oxide Sheet-Dispersed Bismuth Telluride Matrix Nanocomposites Synthesized by Extrinsic Interface-Engineering	
P1602_1117	Kwangsun Song	School of Mechatronics, Gwangju Institute of Science and Technology (GIST)	Fabrication of flexible dual junction (GaInP/GaAs) solar cell for wearable electronics	
P1602_1169	Il Kwon Shin	Sejong University	Study on the enhanced adhesion property and resistivity of the flash-light sintered copper electrode on polyimide film by modifying the substrate surface	●
P1602_1190	Kathleen A Maleski	Drexel University	Dispersion of Titanium Carbide MXene in Organic Solvents	●
P1602_1212	Soohyun Kim	Sungkyunkwan University	Enhancement of Wettability Gradient on Imprinted Nanopatterns using Alternating Oxygen Plasma	●
P1602_1217	Ye Sub Hyun	Sejong University	Preparation of Extremely Pure Multi-walled Carbon Nanotubes and Their Application to Semiconducting Composites for High-voltage Power Cables	●
P1602_1218	Elsye Agustina	Sejong University	Hybridization of Nanocarbon and Boron Nitride Fillers for Thermally Conductive Nanocomposites	●

July 14(Thu.)

P1602_0001	Hyung-Ju Kim	Korea Atomic Energy Research Institute (KAERI)	Silica-Based Self-Propelling Particles as Elevator Particles	●
P1602_0008	Hong Seok Lee	Chonbuk National University	Optical properties of multilayer CdTe/ZnTe quantum dots with different ZnTe separation layer thicknesses	
P1602_0041	Hyun Kim	Kumoh National Institute of Technology	A Novel Graphene Oxide Composite Membrane as an Efficient Desalination System	
P1602_0063	Eun Hee Jo	University of Science & Technology	Synthesis of Pt Nanoparticles Laden Graphene by Microwave Plasma Spray Pyrolysis and Application to Direct Methanol Fuel Cells	●
P1602_0122	Zhao Jing Ming	Chosun University	Synthesis and Thermal Stability of Nanocrystalline Tetragonal Zirconium Dioxide by Hydrolysis	
P1602_0141	Hanuk Lee	Hanyang University	Application of stainless steel nanotubes impregnated with metal nanoparticles as photocatalyst	●
P1602_0151	Sang Chul Lim	Gumi Electronics & Information Technology Research Institute	Characteristics of IGZO oxide thin film transistors with tri-layer gate dielectrics	●
P1602_0168	Don-Sung Lee	Chonnam National University	Organo-Functionalization of Silicon Nanocrystals Synthesized by Inductively Coupled Plasma Chemical Vapor Deposition	●
P1602_0197	Trang Nguyen Thi Thuy	Pusan National University	TiO2 thin films sensitized with upconversion phosphor for enhanced solar water splitting	●
P1602_0203	Jingon Lee	Kyung Hee University	High Performance, Highly Bendable Thin Film Transistor Based on Multilayer MoS2	●
P1602_0216	Myung-rang Chae	Gyeongsang National University	Silicon thin film anodes with Cu current collectors fabricated by a low temperature oxidation-reduction process	●
P1602_0262	Hyo Sun Lee	Korea Institute of Science and Technology (KIST)	2D van der Waals material based p-n heterojunction for photo diode and image sensor	●
P1602_0273	Young-Chul Lee	Gachon University	Self-assembled and rice grain shaped-iron oxide nanoparticles for efficient photo-Fenton reaction at neutral pH	
P1602_0323	Shu-Tong Chang	National Chung Hsing University	Electron Mobility Calculation for Monolayer TMD Alloy Using Tight-Binding Band Structure	
P1602_0325	Seongsoo Kim	Kangwon National University	Pd ion-driven Peptide Nanostructure with Noble Properties of Self Assembly and Re-assembly as Biomimetic Catalyst for Cross Coupling Reactions	●
P1602_0340	Sangwoo Kwon	Dongguk University	Controllable Work Function of Mono-layer MoS2 by Proton Irradiation	●
P1602_0355	You Joong Kim	Dongguk University	Synthesis of size-controllable MoS2 flakes by facile sulfurization method	●
P1602_0371	Sunghee Kang	Korea Research Institute of Chemical Technology (KRICT)	Toughening epoxy resins by core-shell rubber particles	●
P1602_0374	Byungsun Lee	Myongji University	Preparation of UV/heat dual-curable adhesive with improved adhesion using reactive organic-inorganic hybrid nanoparticle	●
P1602_0378	Chunho Kim	Myongji University	Homeotropic alignment of liquid crystals using nanoscale self-assembled alignment layer of photoluminescent pyrene derivatives	●

P1602_0379	Taehee Kim	Korea Research Institute of Chemical Technology (KRICT)	Epoxy composites including halloysite nanotube treated with metal oxides	●
P1602_0439	Giyong Song	Yonsei University	Chemically modified surface triboelectric nanogenerator by self-assembled monolayers	
P1602_0442	Hye Mee Yang	Inha University	A study on photocatalytic behaviors of activated carbon fibers impregnated with N-doped titania	●
P1602_0444	Namhun Lee	Kangwon National University	Sphere-to-satellites shape of tyrosine-rich peptide self-assembled superstructure driven gold ions and its plasmonic applications	●
P1602_0447	Hyunsung Moon	Kyung Hee University	Uniform growth of Large grain Multilayer MoSe ₂ Films grown By modified Chemical Vapor Deposition	●
P1602_0460	Charmaine Lamiel	Yeungnam University	Binder-free Ni-Co-Mn oxide nanoflakes grown on Ni foam for high-performance pseudocapacitive electrode	●
P1602_0462	Jin Wook Lee	Yeungnam University	Catalytic activity of aluminum fluoride nano-structures for decomposition of NF ₃ exhausted in semiconductor manufacturing process	
P1602_0475	Min-Sik Kim	Seoul National University	Liquid Cu catalyst phase effect on graphene growth	
P1602_0488	Ok-Jin Kim	Kyung Hee University	Transparent thin-film transistors based on 2D multilayer MoS ₂ and bi-layered conducting oxides with thin Aluminum	●
P1602_0491	Woo-Jae Lee	Pusan National University	Effect of Thickness on Flexible, Electrical and Optical properties of Ti- ZnO films on Flexible Glass by Atomic Layer Deposition	●
P1602_0493	Zhixin Wan	Pusan National University	Ni(OH) ₂ /ZnO Core-Shell Nanostructured Electrode for High Performance Supercapacitor by Hydrothermal Method and Atomic Layer Deposition	●
P1602_0499	Da-Young Kim	Pusan National University	Synthesis and characterization of TiO ₂ thin film deposited by new precursor in atomic layer deposition system	●
P1602_0515	Byeong-Heon Jeon	Changwon National University	Synthesis and Characterization of W doped SiO ₂ nanoparticle by a Reverse Micelle and Sol-Gel Process	
P1602_0531	Seonyoung Park	Kookmin University	Interface Properties of Atomic-Layer-Deposited Al ₂ O ₃ Thin Films on Ultraviolet/Ozone-Treated MoS ₂ Crystals	●
P1602_0536	Minsu Kim	Seoul National University	Graphene doping by Ru atomic layer deposition	
P1602_0537	Se-Hun Kwon	Pusan National University	Synthesis of 2D SnS ₂ nanocrystals by chemical vapor transport from homemade tin sulfide precursor	
P1602_0556	Byeong Sub Kwak	Yeungnam University	Evaluation of photo reduction performance from CO ₂ with H ₂ O over ATiO ₃ [A=Ca, Sr, Ba] perovskite nanostructures	
P1602_0584	Sunghee Lee	Ewha Womans University	Shape-controlled Synthesis and Assembly of Metal Nanoparticles	●
P1602_0585	Seulki Kang	Ewha Womans University	Colloidal Self-Assembly of Amphiphilic Polymers and Nanoparticles	●
P1602_0600	Sang-Soo Chee	Gwangju Institute of Science and Technology (GIST)	Low-Cost, High-Performance, Solution-Processed Lithium-Doped Zinc Oxide/Carbon Nanotubes Thin-Film Transistors	●
P1602_0606	Yeongsik Kim	Yonsei University	A Simple Approach to Long-Range Perpendicular Lamellae in PS-b-PMMA Block Copolymer Films	

P1602_0607	Sungmin Park	Yonsei University	Transition Behavior of Asymmetric Polystyrene-b-Poly(2-vinylpyridine) Films with Strong Interfacial Interactions	●
P1602_0608	Wooseop Lee	Yonsei University	Thickness and molecular weight dependence of perpendicularly orientation in PS-b-PMMA thin films	●
P1602_0613	Seong Yeoul Kim	Kookmin University	Dielectric Passivation Effects for Multilayer Molybdenum Disulfide Transistors	●
P1602_0614	Seoyeon Han	Ewha Womans University	Responsive free-standing gold nanoparticle films fabricated by programmable DNA-directed layer-by-layer assembly	●
P1602_0634	Hye-Min Jeong	Pusan National University	Zirconium oxide based isorecticular MOFs as catalysts for CO ₂ fixation via cyclic carbonate synthesis	
P1602_0650	Jeemin Hwang	Yonsei University	A new family of perovskite catalysts for oxygen-evolution reaction in alkaline media: BaNiO ₃ and BaNi _{0.83} O _{2.5}	●
P1602_0704	Young Eun Jeong	Korea University	Particle size and thermal stability of Pd nano-particles deposited by Arc plasma in an oxygen atmosphere on γ -Al ₂ O ₃	
P1602_0706	Won-Jin Kwak	Hanyang University	Mo ₂ C nanoparticle decorated CNT electrode for lithium-oxygen battery	●
P1602_0722	Young Tack Lee	Korea Institute of Science and Technology (KIST)	Nonvolatile Memory Field-Effect Transistors Based on 2D van der Waals Nanosheets and Ferroelectric Polymer Top Layer	●
P1602_0725	Xiaoyan Jin	Ewha Womans University	A Role of Exfoliated 2D Inorganic Nanosheets as Efficient Substrates for the Growth of Carbon Nanotube	●
P1602_0726	Yun Kyung Jo	Ewha Womans University	Influence of Inorganic 2D Nanosheets on the Gas Adsorption Property and Stability of Metal-Organic-Framework-Inorganic Nanosheet Nanocomposites	●
P1602_0738	Jinju Song	Chonnam National University	Nanostructured Mn ₃ O ₄ /C Electrode of a with Long Cycle Stability by One-Step Pyro-Synthesis for Rechargeable Lithium-Ion Batteries	●
P1602_0740	Sungjin Kim	Chonnam National University, Gwangju#	Hierarchical porous anatase TiO ₂ , containing high surface area, synthesized by the hydrolysis of a titanium metal-organic framework as a anode material for LIB	●
P1602_0747	Kanghyun Chu	Korea Advanced Institute of Science and Technology (KAIST)	Enhancement of anisotropic photocurrent by strain gradient in ferroelectric oxides	●
P1602_0766	Saejin Oh	Ewha Womans University	Self-Assembly of Polythiophene Block Copolymers	●
P1602_0768	Sung-Chan Jang	Korea Atomic Energy Research Institute (KAERI)	Facile, and Rapid Irradiation Reaction for Reduced Graphene Oxide/ Prussian blue Foam	●
P1602_0772	Kyung Tae Park	Seoul National University	Improved moisture barrier performance based on partially reduced surface treated graphene-derivatives	●
P1602_0775	Gi-Back Lee	Seoul National University	Unravelling the Atomic Origin of Structural Relaxation-Driven Electron Doping in Amorphous Oxide Semiconductors	●
P1602_0861	Yu Na Kim	Pusan National University	Double metal cyanide catalyzed ring opening polymerization of L-lactide	
P1602_0864	Jaehwa Lim	Pusan National University	Synthesis of polycarbonate polyols by double metal cyanide catalyzed copolymerization of epoxide with carbon dioxide	
P1602_0869	Anuraj Varyambath	Pusan National University	Palladium-nanoparticles-decorated porous carbon spheres as high-activity catalyst in electrooxidation of alcohol	

P1602_0886	Eunkyung Jeon	Gwangju Institute of Science and Technology (GIST)	Organic-inorganic hybrid framework with reticular nanopores	
P1602_0905	Sang Kyu Lee	Seoul National University	Smart Contact Lens with Graphene Coating for EMI Shielding and Color Protection	●
P1602_0924	Do-Hun Kim	Gachon University	LaTiO ₃ -Ag _{0.2} /3D graphene based electro-catalyst for oxygen reduction reaction	●
P1602_0933	Soo Yeon Kang	Gachon University	Sonochemical deposition of Au nanometals on chitosan-tethered hematite (Hematite@Chitosan) and its photocatalytic activity	●
P1602_0949	Bulgan Tsedenbal	Changwon National University	Wet Chemical Synthesis and Optical Properties of α -Fe ₂ O ₃ Nanocrystals	
P1602_0955	M. S. Anwar	Changwon National University	Microwave-Assisted Rapid Synthesis of Fe ₂ O ₃ for Removal of Organic Pollutant	
P1602_0969	Jiyeon Hong	Gwangju Institute of Science and Technology (GIST)	PEDOT:PSS coated tellurium nanocrystal and polyelectrolyte composite for thermoelectric applications	
P1602_1021	Hyunuk Kim	Korea Institute of Energy Research (KIER)	Synthesis of MIL-125 (Ti) and Their Water Adsorption Property for Adsorption Refrigeration	
P1602_1042	Jung Hyuk Kim	Korea Institute of Science and Technology (KIST)	Antireflection coating in low reflective index of self assembled TiO ₂ nanostructure by pulsed DC reactive sputter	●
P1602_1052	Jihoon Lee	Pukyong National University	Enhancement of photocurrent using new random copolymer additional of thieno thiophen unit	
P1602_1056	Dal Yong Lee	Pukyong National University	Efficiency enhancement in polymer solar cells via incorporation of optical spacer and additive solvent	
P1602_1081	Min Jong Noh	Korea Advanced Institute of Science and Technology (KAIST)	Density functional theory study of applied bias graphene gas sensor	
P1602_1089	Ki bok Nam	Kyonggi University	A study on the SCR absorption properties of the tungsten doped Mn/Ce/Ti Catalyst at low-temperature	
P1602_1094	Gwang Hyuk Shin	Korea Advanced Institute of Science and Technology (KAIST)	Multilevel resistive switching memory using solution process with two-dimensional materials	●
P1602_1112	Jaehyun Han	Yonsei University	Highly Stretchable and Wearable Strain Sensor Using Entangled Graphene Network	●
July 15(Fri.)				
P1602_0022	Keuk-Min Jeong	Pusan National University	Melamine-sulfonic acid functionalized SBA-15 for selective adsorption of Li ⁺ ions from artificial seawater and wastewater	
P1602_0024	Young Hwangbo	Seoul National University of Science and Technology	Electrospun CoFe ₂ O ₄ Nanofibers as High Capacity Anode Materials for Li-ion Batteries	
P1602_0029	Ahmed I. Ali	University of Ulsan	Room Temperature Ferromagnetism in Sm _{0.5} Sr _{0.5} CoO ₃ Thin Films Deposited using Pulsed Laser Deposition Method	
P1602_0032	Hee-Man Yang	Korea Atomic Energy Research Institute (KAERI)	Polyvinyl alcohol-borate hydrogel containing magnetic adsorbent for surface decontamination	
P1602_0045	Young Ho Kim	Daegu-Gyeongbuk Medical Innovation Foundation (DGMIF)	Characterization of Nafion/CNT Nanocomposite Membranes for Nanobiotechnological Applications	

P1602_0058	Jaehyun Hur	Gachon University	Morphology control of hydrothermally grown ZnO nanorods by the additives and seed layers	
P1602_0086	Jeong Cheol Kim	Korea Institute of Industrial Technology (KITECH)	Comparison of the Properties of copolyimides and their nanocomposites: Thermo-optical properties, morphology and gas permeation	
P1602_0099	IL TAE KIM	Gachon University	Facile synthesis of aluminum-antimony alloys and their application for lithium-ion and sodium-ion storage	
P1602_0113	Jun Young Lee	Korea Atomic Energy Research Institute (KAERI)	Evaluation on high resolution and stability of amorphous zirconium phosphate for 68Ge/68Ga generator system	
P1602_0117	Sol Jung	Sookmyung Womens University	Rapid thermal annealing effect on magnetic property of thin-films consisting of amorphous CoSiB	
P1602_0140	Min-Jae Lee	Catholic University of Daegu	Novel ophthalmic material with electromagnetic wave blocking effect containing ITO nanoparticles	●
P1602_0156	Kyungwhan Yang	Korea university	Wearable heater made of an ITO nanoparticle film for thermotherapy	●
P1602_0162	Kim Duck-Hyun	Catholic University of Daegu	The performance stability of ophthalmic material with UV-block effect containing tungsten nanoparticles	●
P1602_0167	Jungdong Kim	Chungnam National University	Bandedge photoluminescence from lead sulfide and lead selenide nanostructures	
P1602_0169	Sumin Kim	Sookmyung Womens University	Annealing effect on the magnetic properties of Fe-based amorphous ribbon	
P1602_0173	Jiyun Oh	Sookmyung Womens University	Thermal and Magnetic Properties of Co-based and Fe-based Amorphous Alloys through the Addition of Ta	
P1602_0204	DaeSung Kim	Pusan National University	Synthesis of Sn-Bi-Cu Intermetallic Compound Nanoparticles by Pulsed Wire Discharge of Sn-Bi and Cu wires	●
P1602_0230	Hyeongdo Jeong	Chosun University	Influence of powder properties on the sintered behaviors in commercial 3Y-TZP	
P1602_0233	Jonghwan Kim	Pusan National University	Analysis of explosion of pulsed wire discharge method through the high-speed camera image	●
P1602_0263	Jae Ryung Choi	Korea Institute of Materials Science (KIMS)	Electromagnetic characterization of frequency selective radar absorbing materials using Co and CNF at GHz frequency range	
P1602_0268	Dohyung Lee	Inha University	Surface modification of magnesium alloy AZ31 for the enhanced corrosion behavior	●

P1602_0270	Hyun-Kyung Kim	Hanyang University	Physical size dependence of heavy metal adsorption in magnetic-cored dendrimers	●
P1602_0274	Jung yoonki	Pusan National University	Role of Voltage and Gas in Determining the Mean Diameter in Sn-58 Bi Intermetallic Compound Nanoparticles for Pulsed Wire Discharge	●
P1602_0280	Kyung Joon Lee	Seoul National University	Dielectric and optical properties of Hf1-xZrxO2 thin film for ferroelectric oxide	●
P1602_0315	Oleg Khlebnikov	Institute of Chemistry Far East Department Russian Academy of Sciences	The hydrophobic cellulose aerogels mineralized by polysilsesquioxane	●
P1602_0326	Yulia Burkova	Institute of Chemistry FED RAS	Silver nanoparticles and nanoclusters stabilized by alginate	
P1602_0358	Jae Young Lee	Keimyung University	CO2 capture by amine-functionalized mesoporous hollow silica	
P1602_0359	Su Guan Jang	Keimyung University	Preparation and Characterization of Size Controllable Hollow TiO2 Nanospheres for Photocatalyst	
P1602_0376	Younghwan Kwon	Daegu University	Synthesis and Properties of Nano-Aluminum/Fluorinated Polyurethane Composites Prepared by Polyaddition Polymerization and Simultaneous Catalyst-Free Azide-Alkyne Click	
P1602_0386	Dayoung Lee	Kyonggi University	Crystallization and properties of ZrO2-SiO2-MgO-CaO glass ceramics prepared by sintering	
P1602_0400	Jooyoung Park	Hanyang University	Physical and optical properties of zinc-tin-oxide thin films deposited on sapphire substrate	●
P1602_0410	Jang So-Ri	Korea Institute of Industrial Technology (KITECH)	The insect repellent effects of essential oil / halloysite nanocapsules for food packaging materials	
P1602_0411	Yuna Lee	Kyonggi University	Si-sludge Slag as Porogent Agent added in light-weight Geopolymer based on Spent Catalyst Slag	●
P1602_0416	YunHwan Park	Gyeongsang National University	Fabrication on Gas Permeation Characteristics of Multi-layer Composite Membranes for Gas Separation with Excellent CO2 Permeability and Selectivity	●
P1602_0417	Seung moon Woo	Gyeongsang National University	Preparation and characterization of multi-layer polypropylene separator for Li-ion battery	●
P1602_0418	Moonki Jeong	Gyengsang National University	Fabrication of PEG-Polyimide copolymer hollow fiber membrane for gas separation	●
P1602_0429	Moon Kyung Hwang	Pusan National University	Advantage of Ag Addition to Sn-Bi Compound Nanopowders using Pulsed Wire Discharge	●
P1602_0434	So Yeon Park	Seoul National University	Highly Sensitive Magnetic-Silver Bumpy Nanoshell for Label-free SERS Detection	●
P1602_0435	Jun-Young Lee	Yonsei University	Meta-stabilization in phase change Ge2Sb2Te5 nanowires	●
P1602_0440	Kejian Li	Changwon National University	Grain Growth and Precipitation in Shot Peened 304 Stainless Steel upon Heat Treatment	●
P1602_0458	Jae-Young Lee	Woosuk University	Effect of Silicone Oil Modified Nanosilica on the Electrical Properties of Epoxy/Nanosilica Composites	

P1602_0477	Min Gyu Kim	Pusan National University	The microstructural evolution and electrochemical property of HRDSRed AZ61 alloys	
P1602_0494	Yeon-Ho Lee	Sungkyunkwan University	The Effect of Geometry Configuration on the Exothermic Performance of Mogul-Patterned Stretchable Heater	●
P1602_0514	Jeong Hyeon Kim	Chonbuk National University	Polyurethane/Loess Powder Film for the Adsorption of Volatile Organic Compounds(VOCs) from Air.	●
P1602_0552	WonSool Ahn	Keimyung University	Cell-Opening of Rigid Urethane Foam for VIP Core Material Using a Novel Reactive Cell Opener	
P1602_0583	Joon-Pyo Jeun	Korea Atomic Energy Research Institute (KAERI)	Preparation and characterization of cellulose nanocrystal reinforced poly(vinyl alcohol) composites	
P1602_0602	Hoi Jin Yoon	Hanbat National University	Characterization of aggregation and distribution of Ag nanoparticles on semitransparent Si solar cell substrates	
P1602_0631	Honglin Tian	Chonnam National University	Improvement of mechanical strength of the CO ₂ sorbent containing alkaline metal salts for post combustion capture process	
P1602_0694	Myoungman Kim	Korea Atomic Energy Research Institute (KAERI)	Characterization of conductive paste containing silver nanoparticles prepared through electron beam irradiation	●
P1602_0719	Sujin Sung	Gwangju Institute of Science and Technology	Systematic Characterization and Control of Solution-Processed Titanium Dioxide Thin-Films for Electronic Devices	●
P1602_0862	Jaeyeong Bae	Pusan National University	Dumbbell-type hyperbranched polyglycidol assisted green synthesis of metal nanoparticles	
P1602_0913	Jeung Hee An	Konkuk University	Protective effect of maghemite coated bentonite nanoparticles against ultraviolet radiation	●
P1602_0936	Jaebeom Jeon	Korea Advanced Institute of Science and Technology (KAIST)	Cross-linkable Wet-Strengthening Agent as an Aqueous Binder for Sulfur Cathode in Li-S Batteries	●
P1602_0940	Nam-Ho Kim	Chonnam National University	The thickness effect of inserted Ag layer in NiInZnO/Ag/NiInZnO multi-structure films on polymer dispersed liquid crystal-based smart windows	
P1602_0948	Taeyang Son	Gyeongsang National University	Preparation and Electrochemical Characterization of Membranes using Submicron Sized Particles with High Ion Exchange Capacity for EAD	●
P1602_0958	Sangil Lee	Korea Polytechnic University	Study of void formation mechanism in self-separation process of m-plane GaN substrate by HVPE	●
P1602_0979	Sung Won Ko	Chonbuk National University	Utilization of alga (Capsosiphon fulvescens) for preparation of cellulose nanocrystals: A useful approach for minimizing water algal bloom dilemma	●
P1602_1073	In-Ho Yoon	Korea Atomic Energy Research Institute (KAERI)	Effect of various surface functional groups for modification of silica nanoparticle to increase the stability of decontamination foam	●
P1602_1075	Won Joon Lee	Changwon National University	Synthesis and Characterization of Y ₂ Ti ₂ O ₇ Nanoparticles by Sol-Gel Processing	●
P1602_1087	Thuong-Thuong Nguyen	Daegu University	Synthesis of Bacterial Cellulose-based Polyurethanes and Their Thermal and Mechanical Properties	
P1602_1118	Dong Won Kim	Korea Institute of Materials Science (KIMS)	Synthesis and Enhanced Explosion Behaviors of Nanoparticle-Attached Micro-sized Aluminum Powders for Energetic Applications	

P1602_1123	Youngmo Kim	Yonsei University	Influence of Si precursor on the Surface Roughening of SiGe Epitaxial Layers using UHV-CVD	
P1602_1130	Eunhee Cho	Ewha Womans University	Properties of nanostructured layer for perovskite solar cell	●
P1602_1139	Hyun Woo Park	Gachon University	Hydrophobic Multi-Tiered Spikes on Dragonfly Wings	●
P1602_1158	Ji Beom Shin	Korea University	ZnO nanowires-Poly(L-lactide) (PLLA) nanofibers composites synthesis via electrospinning and hydrothermal methods	●
P1602_1162	Jae Hong Kim	Chosun University	Effect of reaction temperature on the synthesis of nano-sized Y-TZP powder by urea hydrolysis	
P1602_1171	Jung Yeol Shin	Sejong University	Growth and structural properties of vanadium oxide nanowires fabricated by chemical vapor deposition method	●
P1602_1180	Do Hyeon Chang	Gyeonggi Science High School for the Gifted	Producing and Application of Super-Hydrophobic Coated Glass	●
P1602_1191	Christine B. Hatter	Drexel University	Two-Dimensional Transition Metal Carbide (MXenes) Reinforcement of Polymer Matrices for Enhanced Multifunctional Composites	●

NANO KOREA 2016 Poster Presentation Schedule

TS03. Nanofabrication and Measurement

• Set-up : July 13(Wed.) - July 15(Fri.) 08:00-08:45

• Presentation : July 13(Wed.) 11:00-12:00

• Tear-down : July 13(Wed.) - July 14(Thu.) 16:00-17:00

July 14(Thu.) - July 15(Fri.) 11:30-12:30

July 15(Fri.) 14:00-15:00

Submission No.	Presenter	Affiliation	Title	Award Participation
July 14(Thu.)				
P1603_0034	Jung Hwan Hyung	National NanoFab Center	A New Fabrication Technique for Silicon Nanowire for Sensor Applications	●
P1603_0052	Seong-Woong Kim	Korea Institute of Materials Science (KIMS)	Origin of enhanced ductility of TiAl alloys: A hybrid study using in-situ transmission electron microscopy experiments and molecular dynamics	●
P1603_0053	Hyunse Kim	Korea Institute of Machinery and Materials (KIMM)	Design and Fabrication of an Ultrasonic Waveguide for Cooling Applications	
P1603_0088	Tae-Yeon Cho	Korea Research Institute of Chemical Technology (KRICT)	SiNx Thin-Film for High Moisture Barrier Performance Using R2R ECR-PECVD Technology	●
P1603_0102	Chang Taek Seo	Gumi Electronics Information and Technology Research Institute (GERI)	Reactive sputtering SiO ₂ film for alignment layer of VA mode liquid crystal display	
P1603_0123	Inki Kim	Pohang University of Science and Technology (POSTECH)	Fabrication of deep sub-wavelength 3D metamaterials and metadevices using high precision multi-step electron beam lithography system	●
P1603_0133	Song-ee Lee	Korea Institute of Science and Technology (KIST)	Noncontact dry etching of polymers for nanoscale surface roughness	●
P1603_0135	Jeong Hwan Kim	Korea Institute of Machinery and Materials (KIMM)	Hybrid Film Deposition for Surface Functionalization of nano-hole/channel Structures	

P1603_0144	Dasol Lee	Pohang University of Science and Technology (POSTECH)	Nano-imprinted hexagonal hyperlens array for high-throughput super-resolution imaging	●
P1603_0163	Hyeong Sub So	Dankook University	Synthesis and characterization of recycled nanocrystalline bismuth telluride according to pH and surfactant control	
P1603_0240	Jik-Han Jeong	Korea Institute of Machinery and Materials (KIMM)	Study of structural color using high aspect ratio nanostructures	●
P1603_0256	Asad Ullah,	Kyungpook National University	Solvent effects on the preparation of porous PLGA microspheres using porogens in microfluidic device	●
P1603_0259	Soon-Il Yun	Chonbuk National University	Autoclave mediated one-pot-one-minute synthesis of AgNPs and Au-Ag nanocomposite from Melia azedarach bark extract with antimicrobial activity against food pathogens	
P1603_0266	Sang-Deuk Kim	Inha University	Facile analysis method for the purity of titanium tetrachloride	●
P1603_0342	Seungmo Kim	KOREATECH	Characterization of physical properties for black carbon aggregate composed of nanoparticles	
P1603_0345	Junhyuk Choi	Korea Institute of Machinery and Materials (KIMM)	Spectral Optical Properties of the Encapped Metal Plasmonic Nanostructures with the Increased Mechanical Stability	●
P1603_0346	Eung-sug Lee	Korea Institute of Machinery and Materials (KIMM)	Multilayer Plasmonic Nanostructures with Dual Spectral Bands and its Advanced Fabrication Method	●
P1603_0372	Jaeyoung Jo	DRAXION Co.	Microstructure and Thermal Properties of AlN-Al ₂ O ₃ Composite Prepared by Spark Plasma Sintering	
P1603_0380	Jang Hyun Kim	Seoul National University	Analysis of Hump Phenomena in Amorphous Oxide Thin Film Transistor	●
P1603_0430	Hyun-Woo Lee	Kwangwoon University	Effect of Microwave Annealing on SOI MOSFETs	●
P1603_0433	Il-Jin Baek	Kwangwoon University	Investigation of Resistive Switching Characteristics in Solution-processed Aluminum Oxide Layer with Low Thermal Budget Microwave Annealing	●
P1603_0443	Hyeseon Shin	Hallym University	The evaluation of electron mobility characteristics with surface roughness	
P1603_0446	Nam-Woon Kim	Korea Research Institute of Standards and Science	Template synthesis of coral-like TiO ₂ nanostructures using a bamboo-soot	
P1603_0450	Sang-Hoon Jo	Korea Institute of Machinery and Materials (KIMM)	A Study of Ion transport control using PTFE-membrane with functional metal interface	●
P1603_0479	Ilhwan Park	Gachon University	Cytotoxicity Test of Rapamycin in MCF-7 Breast Cancer Cells using Electrical Cell-Substrate Impedance Sensing	●
P1603_0480	Jong-hyeok Park	Sejong University	Dynamic analysis for the vibration suppression of the planetary ball mill	●
P1603_0517	Donghwan kim	Yeungnam University	Hexagonal nanopore arrays with varying interpore distance formed via Anodic Aluminum Oxide template.	●
P1603_0666	Tae Hoon Park	Korea University	Fabrication of MEMs Standard and Calibration Sample for electrical properties of Atomic Force Microscope	●

P1603_0675	Jong-Hyuk Lee	Korea University	Fabricate Zeolitic Metal-Organic Framework Films via Supersonic Cold Spraying	●
P1603_0695	In-Hwan Yang	Korea Atomic Energy Research Institute (KAERI)	Hydrodynamic Instability on the Interface of Co-flowing Immiscible Liquids in Microtube	
P1603_0702	Chaewon Kim	Korea Electronics Technology Institute (KETI)	Fabrication of poly-crystalline In-Ga-Zn Oxide (IGZO) nanoparticles for touch sensors	●
P1603_0710	Byungkwon Kim	Yonsei University	Size control of fabricated nanoparticle during the ceramic particle recycling process by thermophoretic separation	●
P1603_0718	Heejun Jang	Korea Advanced Institute of Science and Technology (KAIST)	Direct Transfer of Multilayer Graphene Grown on Rough Metal Surface Using PDMS Post-Curing Release	
P1603_0733	Injoon Jang	Seoul National University	Facile and green synthesis of carbon-supported nanoparticle catalysts by physical vapor deposition on soluble powder substrate	●
P1603_0745	Daeho Lee	Gachon University	Morphology tuning of hydrothermally-grown ZnO nanowires by seed layer patterning via laser direct writing	●
P1603_0832	ki joong lee	Korea Research Institute of Bioscience and Biotechnology(KRIBB)	Fabrication of metal nanoring array by nanoimprint lithography	
P1603_0879	Junyoung Son	Sungkyunkwan University	Fabrication of DNA Nanostructure guided 4-stranded homologous pair of DNA double helices	
P1603_0891	Hyeonho Jeong	Korea Advanced Institute of Science and Technology (KAIST)	A Novel Process for Fabricating Vertical Silicon Nanotube Arrays Using Spacer Patterning Technique and Metal-assisted Chemical Etching	
P1603_0893	Seunghee Yu	Korea Advanced Institute of Science and Technology (KAIST)	Interface energy difference assisted lift-off process for fabrication of flexible transparent conducting electrode	●
P1603_0919	Jungki Song	Sogang University	Batch fabrication of hydrogel-based atomic force microscope probes	●
P1603_0995	Jae Hong Park	Korea National NanoFab Center	Reversible Nano Lithography for Commercial Approaches	●
P1603_0998	Young-Soo Han	Korea Atomic Energy Research Institute (KAERI)	Characterization of Nano Sized Microstructures in Ni base ODS Alloys Using Small Angle Scattering	
P1603_1029	In-Geun Lee	Yonsei University	Observation of Micro-twins in Epitaxial Indium Phosphide Layers Grown on Si (001) Substrates by Metal-Organic Chemical Vapor Deposition	
P1603_1069	Changsu Park	Yonsei University	Real-time Control of Beam Scanning System to Compensate Error due to Environmental Factors in Laser Interference Lithography	●
P1603_1141	SangHo Shin	Korea Institute of Machinery and Materials (KIMM)	Fabrication of infrared plasmonic metamaterial absorber using nanoimprint lithography	●
P1603_1167	Jun-Mo Yang	National Nonofabrication Center (NNFC)	Analysis on morphology and structure of graphene by low voltage TEM technique	●
P1603_1168	Hoang Van Vuong	Chungnam National University	Strain mapping in the nanoscale-triangular SiGe pattern by dark-field electron holography with medium high-resolution magnification mode	●
P1603_1184	Boyeon Hwang	Korea Institute of Machinery and Materials (KIMM)	Fabrication of Flexible Plamonic Color Filter via Nano-transfer Process	●

P1603_1186	Zhi-Jun Zhao	Korea Institute of Machinery and Materials (KIMM)	Fabrication of metallic nanoscale 3D cross-structure based on nanoimprint and heat-welding technology	●
P1603_1187	YUNWOO LEE	University of Science and Technology(UST)	Fabrication and characterization of microneedles made of novel biomaterial	●
P1603_1194	Soon Hyoung Hwang	Korea Institute of Machinery and Materials (KIMM)	Fabrication of Plasmonic Metasurfaces via Nano Transfer Process	●
July 15(Fri.)				
P1603_0242	Eunju Yeo	Korea Institute of Machinery and Materials (KIMM)	Investigations on fabrication process of nano structures and investigation physical properties of surfaces with the nano structures	
P1603_0244	Jeonghoon Lee	Korea University of Technology and Education (KOREATECH)	Polymer Flow Behavior in Mold Pressing Stage during Thermal Nanoimprint Lithography	
P1603_0279	Geunmu Yuk	Korea Institute of Machinery and Materials (KIMM)	Study on modulation of surface properties of Anodic Aluminum Oxide(AAO) membrane and its hydraulic characteristics	
P1603_0575	Jihye Lee	Korea Institute of Machinery and Materials (KIMM)	Fabrication of Nanopatterned Semiconductor Nanocrystal embedded polymer thin film using Nanoimprint lithography	
P1603_0590	Hwan-Jin Jeon	Korea National NanoFab Center	A highly efficient rechargeable lithium batteries by using NiS coated carbon nanofiber felt	
P1603_0707	Won Seok Chang	Korea Institute of Machinery and Materials (KIMM)	Fabrication of air-stable high mobility heterojunction infrared photodetector based-on PbSe colloidal quantum dots	
P1603_0895	Jinwoo Kim	Chonbuk National University	The effects of electropolished nitinol stents and its enhanced corrosion resistance	●
P1603_0912	Seokbeom Kim	Sogang University	Hollow nanomechanical resonant mass sensors via unconventional silicon self-assembly	●
P1603_0928	K.P.Shinde	Korea Institute of Materials Science (KIMS)	Studies on synthesis of Si nanopowder by dc plasma arc discharge	
P1603_0997	Hyojun Kim	Hanyang University	Improved photoluminescence intensity of double-side patterned Y2O3:Eu3+ thin-film phosphors by reverse nano-imprint lithography	●
P1603_1006	Chunho Ha	Hanyang University	Simple method for suspended graphene on soft substrate	●
P1603_1011	Su Min Hwang	Inha University	Nano Etching of TiN Thin Films with Nanometer-Sized Patterns Using Inductively Coupled Plasma Reactive Ion Etching	●
P1603_1016	Joo-Yun Jung	Korea Institute of Machinery and Materials (KIMM)	Fabrication of plasmonic biosensor using transfer printing	
P1603_1032	Woo-Chang Kim	Korea Institute of Machinery and Materials (KIMM)	Tuning Thermal Conductivity of Freestanding Graphene by Atomic Layer Deposition	●
P1603_1036	Chang-Goo Park	University of Science & Technology (UST)	Durability enhancement of the metal nano mesh for flexible transparent electrode	●
P1603_1038	Jeong Eun Wook	Korea Institute of Materials Science (KIMS)	Fabrication of fine metal electrode on flexible substrate by mechanical methods	

P1603_1043	Jae Yong Lee	Inha University	Comparison of etch characteristic of Palladium thin films in C, H, O containing gas mixtures.	●
P1603_1044	Geehong Kim	Korea Institute of Machinery and Materials (KIMM)	One photon absorption direct laser writing for 3-dimensional structure fabrication	
P1603_1048	Myoung-Ki Song	Gwangju Institute of Science and Technology	Analytical procedure of nanoparticles in consumer products	
P1603_1095	Hwanseong Lee	Yonsei University	Periodic nanostructure fabrication using phase shift lithography method for energy transfer applications	
P1603_1120	Hee Soo Kim	Gachon University	Picosecond Laser ablated Nanostructures of multi-crystalline Silicon wafer for Solar Cell	●
P1603_1140	Yong-Jin Ahn	Kyung Hee University	All-paper battery device for instant electrical power generation	●

NANO KOREA 2016 Poster Presentation Schedule

TS04. Nanobiotechnology and Nanomedicine

• Set-up : July 13(Wed.) - July 15(Fri.) 08:00-08:45

• Presentation : July 13(Wed.) 11:00-12:00

• Tear-down : July 13(Wed.) - July 14(Thu.) 16:00-17:00

July 14(Thu.) - July 15(Fri.) 11:30-12:30

July 15(Fri.) 14:00-15:00

Submission No.	Presenter	Affiliation	Title	Award Participation
July 13(Wed.)				
P1604_0003	Jaewon Kim	Sungkyunkwan University	Measurement of contractile force of a single myotube using microfluidic cell culture devices with micro pillars	●
P1604_0004	Yonghee Kim	Sungkyunkwan University	Neural differentiation of human adipose tissue-derived stem cells (hATSCs) in a microfluidic 3D cell culture device with nanogrooves	●
P1604_0005	Myeongjun Jun	Sungkyunkwan University	Nanomechanical measurement of bacterial adhesion force using soft nanopillars	●
P1604_0030	Hyun Beom Song	Seoul National University	Optically favorable gold nanodisks for the treatment of retinal neovascularization	●
P1604_0042	Ho Yun Shin	Gachon University	Enzyme-free colorimetric detection of glucose using a composite entrapping enzyme-mimicking gold and magnetic nanoparticles within alginate gel matrix	●
P1604_0084	Rimi Lee	Korea Research Institute of Standards & Science (KRISS)	Capacitance based assay for real time monitoring and analysis of nanoparticles uptake	●
P1604_0096	Daehee Kim	Sungkyunkwan University	Graphene-Based Electrical Sensing of Botulinum Neurotoxin Serotype E	
P1604_0138	Tuong Ngoc-Gia Nguyen	Chung-Ang University	A novel sensing strategy for DNA analysis by using nano graphene oxide coated microbeads	
P1604_0139	Jae Hyun Lim	Sogang University	Synthesis and characterization of polymeric nanocomposites for chemo-photothermal therapy applications	●
P1604_0154	Won-Jin Lee	Sogang University	Selective Electrochemical Detection of Dopamine Using Reduced Graphene Oxide Sheets-Gold Nanoparticles Modified Electrode	●

P1604_0164	Thi Tra Nguyen	Chung-Ang University	Cytotoxicity measurement of doxorubicin by cell-substrate impedance sensing (ECIS) using graphene oxide grafted micro electrodes	
P1604_0201	Youngeun Kwon	Dongguk University	Photo-activated wash-free labeling of target proteins in live cells	●
P1604_0211	Seok-Oh Yun	National nanofab center	High sensitive pH sensor for monitoring wound infection	
P1604_0223	Hyunjin Jeon	Dongguk University	Monitoring protein-protein interactions using signal peptide reconstitution of live-cell based sensors	●
P1604_0255	Ee-Seul Kang	Chung-Ang University	3D porous graphene/gold nanoparticle hybrid structures to detect neurotransmitter based on electrochemical method	
P1604_0275	Jinhee Jo	Sogang University	Biosensor to detect H ₂ O ₂ based on metalloprotein-DNA with electrochemical signal enhancement	●
P1604_0278	Jae-Wook Shin	Sogang University	Graphene Covered Silver Nanoparticle Modified Electrode to Detect Neurotransmitter with Long-term Stability	●
P1604_0306	Jin-Ho, Park	Gwangju Institute of Science and Technology (GIST)	Plasmonic aptasensor coupled with berberine as a universal platform for ultrasensitive detection of small molecule	●
P1604_0339	Eun-Jung Jo	Gwangju Institute of Science and Technology (GIST)	Homogeneous immunosensor platform for glycosylated hemoglobin detection based on luminescence resonance energy transfer using the upconversion nanoparticles	●
P1604_0348	Myung Kim	Korea Institute of Science and Technology (KIST)	Chromogenic and Fluorogenic Nanoprobe for Sensing of Hydrogen Sulfide	
P1604_0469	Donggu Hong	Gwangju Institute of Science and Technology (GIST)	Effect of Linker Variation on Cancer Cell-Targeted Photodynamic Therapy (PDT)	
P1604_0490	Youngsun Kim	Korea Institute of Science and Technology (KIST)	Sensing of hydrogen peroxide and thiols with a platform of thiolate-nanocrystal interface	
P1604_0524	Ajay Kumar Yagati	Gachon University	Amperometric H ₂ O ₂ sensor based on hemoglobin immobilized on Ag nanoflowers deposited ITO	
P1604_0550	Hongsik Chae	Seoul National University	Proving the Small-Molecule Inhibition of an Anticancer Therapeutic Protein-Protein Interaction Using a Solid-State Nanopore	●
P1604_0599	Jeong Moon	Korea Research Institute Bioscience and Biotechnology (KRIIBB)	Facile and sensitive identification of influenza viruses using SERS antibody probes	●
P1604_0638	Dae Keun Park	Sungkyunkwan University	Electrochemical Detection of Toxin, Virus, and Bacteria Based on Interdigitated Electrode Arrays	●
P1604_0640	Sungjun Park	Gwangju Institute of Science and Technology (GIST)	Cell-compatible Aqueous Salt Gated Sol-Gel Metal Oxide Electronics	●
P1604_0642	Jaewoong Choi	Hanyang University	Enhanced Individual Capture of Tumor Cells Using a 3-Dimensional Bypass Integrated Micro-pore Array	●
P1604_0645	Du Ri Choi	Konyang University	Protective effect of Asiatic Acid-loaded Poly (D, L-lactic-co-glycolic acid) Nanoparticles on Neuronal damage Evoked by Chemical Hypoxia	●
P1604_0654	Jimin Yu	Hanyang University	Amplification-free detection of prostate cancer specific PCA3-mimic DNA using SERS-based genetic assay	●

P1604_0658	Chunghyun Lee	Gachon University	Fluctuation of fluorescence intensity of DNA-templated silver nanocluster by single base mismatched cDNA	
P1604_0660	Rui Wang	Hanyang University	Highly Sensitive Detection of Estradiol for the Diagnosis of Precocious Puberty Using SERS-based Competitive Immunoassay	●
P1604_0667	Joonki Hwang	Hanyang University	Highly Sensitive Detection of Thyroid Stimulating Hormone (TSH) Using SERS-based Lateral Flow Immunoassay	●
P1604_0763	na rae jo	Korea Research Institute of Bioscience and Biotechnology (KRIBB)	Rapid detection of infectious virus using metal nanohole	●
P1604_0819	Bum Seok Shin	Hanyang University	A three-dimensional network of carbon nanotube embedded fluidic platform for cancer biomarker detection	
P1604_0821	Minsung Kang	Hanyang University	Detection of cancer biomarker CA125 attached to multifunctional three-dimensional network of carbon nanotubes by using surface enhanced raman spectroscopy	
P1604_0824	sumit kumar	Seoul National University	Plasmonic Nanoswitch Probes for Biodetection of Reactive Oxidative and Nitrosative Stress in Cell.	●
P1604_0855	Dong-guk Cho	Seoul National University	The electrophysiological monitoring of aquaporin-4 and the real-time detection of its antibody using nanovesicle-based platform	●
P1604_0865	Wonjae Yoo	Korea Institute of Science and Technology (KIST)	Surface decoration of a fluorescent nanoassembly with a tumor-targeting peptide for high contrast optical imaging	
P1604_0875	Seunghoon Shin	Seoul National University	Controlled Release of Biochemical Materials using Nano-Storage Wires	●
P1604_0888	Jun Ki Ahn	Korea Advanced Institute of Science and Technology (KAIST)	Fluorescent DNA-Cu/Ag nanoclusters for adenosine detection based on target-mediated inhibition of s-adenosylhomocysteine hydrolase activity	
P1604_0897	Chang Yeol Lee	Korea Advanced Institute of Science and Technology (KAIST)	Fluorescent G-quadruplex probe for the sensitive detection of base excision repair enzyme activity	●
P1604_0923	Jisun Ki	Yonsei University	Intracellular miRNA sensing based on molecular beacon modified star-shaped gold nanoparticle.	●
P1604_0925	Ji Hong Lee	Korea Research Institute of Standards and Science (KRISS)	Structural analysis of negative ions by post-source decay in time-of-flight secondary ion mass spectrometry	
P1604_0934	Pei Li	Korea Advanced Institute of Science and Technology (KAIST)	A Simple Sensitive Colorimetric Assay for Acetylcholinesterase and its Inhibitor Screening based on Silver Nanoprisms	●
P1604_0937	Kyoung Suk Kang	Korea Advanced Institute of Science and Technology (KAIST)	Transfection Agent Based on Organo-phyllsilicates Nanoparticles for In Vitro Gene Delivery	●
P1604_0938	Bobin lee	Gwangju Institute of Science and Technology (GIST)	A Localized Surface Plasmon Resonance (LSPR)-based, simple, receptor-free and regeneratable Hg ²⁺ detection system	●
P1604_0966	Taeksu Lee	Yonsei University	Synthesis of highly uniform mesoporous gold nanoparticles obtained via a new, high-yield synthetic methodology for Cancer Theranosis	●
P1604_0968	Daesun Song	Korea Advanced Institute of Science and Technology (KAIST)	Improved Bimolecular Fluorescence Complementation Tools based on Charged Proteins	●
P1604_0977	Sung Yun Ju	Korea Research Institute of Bioscience and Biotechnology(KRIBB)	A fluorescent immunomagnetic biosensor for the rapid and sensitive detection of E. coli O157:H7	

P1604_0990	Chang-Woo Lee	Boditech Med Inc.	Enhancement of limit of detection in lateral flow immunoassay by the application of nanoparticles	
P1604_1005	Hanzhe Liu	Korea University	Binding Control between Biomolecules Based on CdSe Nanoparticles in Flow Fields	
P1604_1013	Wangsik Lee	Korea Research Institute of Bioscience and Biotechnology	Inverse opal nanostructure-based biosensor	●
P1604_1031	Kab Ha	Korea Research Institute of Bioscience and Biotechnology (KRIBB)	Colorimetric detection of influenza A (H1N1) virus based on peptide functionalized polydiacetylene (PEP-PDA) nanosensor	●
P1604_1070	Jin Oh, Lee	Hanyang University	Colorimetric Analysis of Protein Phosphatase Activity in Plant Extracts Using Zinc Coordinated-Gold Nanoparticles	●
P1604_1079	Yunkwang Oh	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Metal Oxide Semiconductor Field-Effect Transistor (MOSFET)-Based Direct Monitoring of p53 in Spiked Serum	
P1604_1085	Inseon Lee	Korea University	Conversion of Glycerol to Dihydroxyacetone Using Stabilized Glycerol Dehydrogenase	
P1604_1086	Han Sol Kim	Korea University	Trypsin Coated Magnetic Nanofiber and Its Application to Protein Digestion	
P1604_1093	Yu-na Kim	Korea Advanced Institute of Science and Technology (KAIST)	Exploring Biomolecular Multivalent Interactions Using GFP Oligomer Scaffolds	
P1604_1098	Seon-Ae Choi	Korea Research Institute Bioscience and Biothchnology (KRIBB)	A selective and water-soluble naphthalimide-based fluorescent sensor for detection of hydrogen sulfide in living cell	
P1604_1107	Inseon Lee	Korea University	Nanobiocatalytic Materials with Stabilized Enzymes into Magnetic Mesoporous Silica	●
P1604_1153	Dong-Hee Choi	Korea University	Pre-concentration using ion concentration polarization in Microfluidic device	●
P1604_1160	Solchan Chung	Gwangju Institute of Science and Techology (GIST)	Near Infrared Light-Assisted Transdermal Polymerization of Thiol-Acrylate Hydrogels	●
July 14(Thu.)				
P1604_0037	Hyuksang Kwon	Korea Research Institute of Standards & Science (KRISS)	The development of infrared scattering-type near-field scanning optical microscopy	
P1604_0134	Jong Min Lee	Sogang University	Hydrogel microwells for motor neuronal differentiation	●
P1604_0161	Woo Jin Joe	Chungnam National University	Functionalized Filtration Membrane Prepared by Polymer-Supramolecule Blends for Point-of-Care (POC) Biosensor Application	●
P1604_0177	Jung-Sub Wi	Korea Research Institute of Standards & Science (KRISS)	Three-dimensional gold nanodishes containing engineered substructures	
P1604_0189	Sung Eun Kim	Pusan National University	Enhanced neuronal cell regeneration on aligned laminin/polydioxanone-collagen core/shell nanofiber matrices	●
P1604_0200	Hee-Kyung Na	Korea Research Institute of Standards & Science (KRISS)	Facile synthesis of silicon nanoparticle for direct imaging of ²⁹ Si in MRI and its application in cancer therapy	
P1604_0246	Yuntae Kim	Gachon University	Fabrication of microporous polyethylene phthalate membrane based cell chip for transepithelial electrical resistance measurement	●

P1604_0249	Soojeong Shin	Hanyang University	Nanometer-scale coating of PDMS surface for medical application	
P1604_0253	Jong Wook Hong	Hanyang University	Nanoliter fluidic system for binding kinetics	
P1604_0264	Hye-Ran Kim	Hanyang University	Chitosan-modified magnetic-cored dendrimers and their antibacterial activity	●
P1604_0271	Jin Gyeong Son	Korea Research Institute of Standards & Science (KRISS)	Chemical Imaging Analyses of Charge-controlled Nanoparticles by Using ToF-SIMS and FT-IR Techniques	
P1604_0302	Heesung Kang	Korea Research Institute of Standards & Science (KRISS)	Label-free in-vivo nanoparticles imaging system for ophthalmoscopy	
P1604_0316	Joong-won Jeon	Hongik University	Microfluidic gut-liver model (gut-liver-on-a-chip) for reproducing the first-pass metabolism of orally administered drugs	
P1604_0413	Jun-Young Park	Gachon University	Anti-cancer efficacy of carbon nanotube conjugated doxorubicin on multidrug resistance small cell lung cancer	●
P1604_0426	Yeon Kyung Lee	Gachon University	Anti-cancer efficacy of doxorubicin-carbon nanotube drug on human lung cancer cells	●
P1604_0427	Sang-Woo Kim	Gachon University	Cellular uptake and drug efficacy of carbon nanotubes on cancer cells	●
P1604_0478	Shigeaki ABE	Hokkaido University	Cytocompatibility of nano-sized ceramics particles on several types cells	
P1604_0496	Tae Hyeon Kim	Sogang University	AND gate-mediated microfluidic multiplexor device	●
P1604_0520	Cheolhwan Jeong	Seoul National University	Magnetic, Fluorescent, and Surface-enhanced Raman Scattering (SERS) Trifunctional Nanoparticles for Bio Imaging and Cell Separation	●
P1604_0521	Jang Ho Ha	Sogang University	Development of multi-layer microfluidic gradient device for drug screening applications	●
P1604_0538	Joo Yoon Moon	Sogang University	Development of the microfluidic device for plasma isolation	●
P1604_0545	Junhyun Park	Gachon University	Development of Microfluidic Electrode Chip for Electrical Stimulation and Impedance Characterization of Neurons Axonal Growth	●
P1604_0648	Shin Hye Kim	Korea Research Institute of Standards & Science (KRISS)	The Effects of Sample Preparation Methods on Analyte Migrations in Time-of-Flight Secondary Ion Mass Spectrometry (TOF-SIMS) Imaging	●
P1604_0659	Min Jee Kwon	Daegu Gyeongbuk Institute of Science and Technology (DGIST)	Characterizing coiled coil structural property of pathogenic polyQ proteins as a potential contributor for inducing polyQ pathogenesis in early stage	●
P1604_0737	Chang Geon Chung	Daegu Gyeongbuk Institute of Science & Technology (DGIST)	Investigating the relevance of Golgi outposts in neuronal dendrite arborization under physiological and pathological conditions	●

P1604_0779	Hyun Kyong Shon	Korea Research Institute of Standards & Science (KRISS)	Improvement of mass resolution and mass accuracy in ToF-SIMS spectra and images using Ar nano-cluster ion beams	
P1604_0783	Jungmin Park	Yonsei University	Environment-responsive activatable nanoprobe for T1/T2 dual-mode magnetic resonance imaging of cancer	●
P1604_0822	Hwunjae Lee	Yonsei University	Magnetic Nanovector enabling miRNA-34a delivery with MR imaging for CD44 suppression	●
P1604_0829	Byungjun Lee	Seoul National University	Fabrication method on biocompatible nanofibrous membrane embedded microfluidic device for 3-dimensional cell culture and analysis system	●
P1604_0836	Kyung-Ho Lee	Chungnam National University	A molecular nanodevice for cooperative and targeted degradation of mRNA during protein synthesis	
P1604_0839	Jungdae Park	Korea Research Institute of Standards & Science (KRISS)	Analyses of metabolites extracted from pre- and post-differentiated 3T3-L1 cells using TOF-SIMS technique	
P1604_0883	amit kumar	Seoul National University	Plasmonic Nanoprobes for Highly Controllable Photothermal and Photodynamic Dual Therapeutic Application	●
P1604_0935	Ming-Ching Lin	PuTian University	The antibacterial activity of graphene oxide in tuberculosis	●
P1604_0970	Won Sik Jung	Gachon University	Synthesis and Characterization of Hydrogel nanocomposites for an efficient Drug Delivery System	
P1604_0989	Seung Kyun Shin	Kyung Hee University	Toxicity of silver nanoparticle and ion on entomopathogenic fungi, <i>Beauveria bassiana</i> and <i>Lecanicillium psalliota</i>	
P1604_1039	Sehwa Kim	Korea Research Institute of Standards & Science (KRISS)	Nanosized fatty acids induce lipotoxicity	
P1604_1046	Jongkyeong Lim	Pohang University of Science and Technology (POSTECH)	Fabrication of hydrogel microfibers using an optical fiber with visible or ultraviolet light	
P1604_1049	Sang-Won Lee	Korea Research Institute of Standards & Science (KRISS)	High-speed functional optical-resolution photoacoustic microscopy with high-speed two wavelength illumination	
P1604_1062	Daekyeong Jung	University of Science & Technology (UST)	Fabrication of a microfluidic device integrated with nanostructures for sensing applications	●
P1604_1135	Byungsan Choi	Korea Advanced Institute of Science and Technology (KAIST)	Functional HER family dimer pull down and reconstitution of p-tyrosine signaling	●
P1604_1136	Min Ju Shon	Korea Advanced Institute of Science and Technology (KAIST)	Understanding PI3K in cancer at the single-molecule level	●
P1604_1138	Ji Young Ryu	Yonsei University	Single Cell Single-Molecule Technique reveals changes in EGFR expression and signaling of PC9 cell-line after drug treatment and recovery	
P1604_1164	Young Wook Lee	Korea Advanced Institute of Science and Technology (KAIST)	Controlled Synthesis of Palladium Nanoparticles and Their SERS Properties	●
P1604_1170	Kwanghee Park	Pohang University of Science and Technology (POSTECH)	Chemical Origin of Thermally Enhanced Hole Doping in Graphene on Silica Substrates	●
P1604_1172	Wontaek Kim	Pohang University of Science and Technology (POSTECH)	Optical Second-Harmonic Generation Applied to Plasma Oxidation of MoS ₂	●

P1604_1173	Haneul Kang	Pohang University of Science and Technology (POSTECH)	Oxidation and Indentation-Assisted Nanopatterning of Single and Few-Layer WS ₂	●
P1604_1177	Yangsun Park	Korea Advanced Institute of Science and Technology (KAIST)	Core-dependent catalytic property of Au@PdPt nanoparticles for reducing 4-nitrobenzenethiol and in-situ SERS monitoring	●
P1604_1179	LEE SEUNGHOO	Korea Advanced Institute of Science and Technology (KAIST)	Controlled Synthesis of Plasmonic Au Nanoparticle Clusters with Galvanic Replacement for Efficient Surface-Enhanced Raman Scattering Platforms	●
P1604_1182	Seungwoo Kang	Korea Advanced Institute of Science and Technology (KAIST)	Correlation between constituent particle size in plasmonic nanoparticle clusters and SERS performance in two-dimensional substrate and aqueous solution	●
P1604_1192	JaeYoung Kim	Korea Advanced Institute of Science and Technology (KAIST)	The fabrication of efficient 2D SERS platforms with Au nanoparticle clusters	●
P1604_1200	Kyungjin Lee	BioNano Health Guard Research Center	Infrastructure and application of H-GUARD Bio-contents	
July 15(Fri.)				
P1604_0049	Eun-Ah You	Korea Research Institute of Standards and Science	Precise Control of Micro/Nano Dual-Scaled Structures for Biomedical Applications	●
P1604_0076	Shanti Marasini	Kyungpook National University	Water Soluble D- glucuronic acid coated Gadolinium sulphide nanoparticles	●
P1604_0078	Miao Xu	Kyungpook National University	The effect of Ligand-Size on the water proton relaxivities of different ligand coated Ultrasmall gadolinium oxide nanoparticles	●
P1604_0079	Adibehalsadat Ghazanfari	Kyungpook National University	Synthesis and surface functionalization of bismuth oxide nanoparticles	●
P1604_0080	Mohammad Yaseen Ahmad	Kyungpook National University	Synthesis and Characterization of TAT-peptide conjugated ultrasmall Gd ₂ O ₃ nanoparticles for use in In Vitro and In Vivo magnetic resonance imaging (MRI)	●
P1604_0081	Wenlong Xu	Kyungpook National University	Investigate the Properties of Gd ₂ O ₃ Nanoparticles Modified by Various Large Compounds	●
P1604_0083	Tirusew Tegafaw	Kyungpook National University	Synthesis and characterization of nearly monodisperse Fe ₃ O ₄ and Fe@Fe ₃ O ₄ nanoparticles coated with various biocompatible ligands and silica	●
P1604_0107	Hyungwon Moon	Seoul National University Bundang Hospital	Theranostic nanodroplets for photoacoustic and ultrasound signal amplification and optically triggered vaporization-induced drug release	●
P1604_0127	Heesun Jung	Konkuk University	Evaluation of Hyaluronic acid/Pluronic Mixed Micelles to Overcome Multidrug-Resistance	
P1604_0157	Jeong Hun Lee	Chungnam National University	Cellular Activity Study on Microsystem with Various Nanostructured Polymer Hybrid Materials	●
P1604_0195	Euiyeon Lee	Dongguk University	Surface charge and ligand effects on cell interaction of gold nanoparticle with mammalian cells	●
P1604_0228	Srivithya Vellampatti Krishnamoorthy	Sungkyunkwan University	In vitro cytotoxic studies of aptamer conjugated DNA nano-rings for breast cancer therapy	●
P1604_0232	Sang Cheol Eum	Chosun University	Bioactivity of biocomposite coatings of hydroxyapatite/TCP and hydroxyapatite/wollastonite	

P1604_0234	Jisoo Park	Korea Research Institute of Standards and Science	Single Cell Micro-patterning by Plasma-polymerized PEG and Amine Depositions for Single Cell Metabolomics	
P1604_0331	Ramasamy Mohankandhasamy	Yeungnam University	Anti-biofilm and anti-toxin activities of surface engineered gold nanoparticles	●
P1604_0333	Suk Hee Park	Korea Institute of Industrial Technology (KITECH)	Dual-layer biomimetic scaffold containing aligned and random electrospun nanofibers	
P1604_0448	Yonghyun Choi	Gachon University	Controlling dimension of anticancer-Au nanoparticle on drug efficacy to cancer cells	●
P1604_0519	Yujiao Tang	Konkuk University	Effect of polyethylene glycol-linked multi-walled carbon nanotube films on tumor target efficiency	
P1604_0594	Sun-Young Kim	SKKU Advanced Institute of Nano Technology(SAINT)	Multivalent Polymer Nanocomplex having Pathogen-mimicking and Cell entry Moieties for Enhanced Antitumor and systemic Memory response.	
P1604_0604	Jaejung Song	Pohang University of Science and Technology (POSTECH)	"Smart" Gold Nanoparticles for Photoacoustic Imaging: Imaging Contrast Agent Responsive to Cancer Microenvironment and Signal Amplification by pH-induced Aggregation	●
P1604_0629	Hyunju Kim	Korea Institute of Science and Technology (KIST)	A newly developed silicon nanowire-based pull-down assay for probing protein interactions inside living cells	●
P1604_0639	Taeyoon Kim	Pusan National University	Synthesis and characterization of stimuli-responsive supramolecules by ATRP	
P1604_0669	Son Long Ho	Kyungpook National University	HA modified Gd2O3 Nanoparticles as Cancer Diagnose MR Imaging Contrast Agent	●
P1604_0686	AnhVy Tran	Gachon University	Modifying mesoporous silica nanoparticles with poly dopamine and hydrogel for improving efficient drug delivery system	●
P1604_0717	Ok Ja Yoon	Chung-Ang University	Development of Polyethylene oxide (PEO) nanofiber sheets using oil blotting cosmetic sheets	
P1604_0731	Yujin Park	Chungnam National University	Amplification and cell-free expression of single molecule DNA in nano scale water-in-oil emulsion droplets	●
P1604_0755	Seongchan Kim	Seoul National University	Functional siRNA delivery system based on porous silica nanoparticle with tunable pore size	●
P1604_0845	Jae-Ho Hwang	Seoul National University	Optimization and Stabilization of Metal-Enhanced Fluorescence Signal Activity Using DNA-Modified Au-Ag Core-Shell Nanostructures	●
P1604_0851	Jeong In Kim	Chonbuk National University	Evaluations of electrospun PU/propolis nanofibrous polymer patch for anti-inflammation and wound healing	●
P1604_0884	Jin Hyuk Park	Korea University	Bio-Recognitive Organic Semiconductor: Photonics Study of DNA-doped Alq3 Particles	●
P1604_0917	Seungmin Han	Yonsei University	Phenoxylated dextran functionalized SWNT platform for smart targeting photothermal therapy on inflammatory disease	●
P1604_0926	Byunghoon Kang	Yonsei University	Drug Release by Remotely Controlled Diverse Magnetic Nanochains	●
P1604_0950	Ji-Seon Lee	Seoul National University	Cancer specific microRNA as an activator of drug for targeted photodynamic therapy in vivo	●

P1604_0984	Jinkyu Roh	Korea University	Shape-Persistent Replica Synthesis of Au/Ag Bimetallic Nanoplates Using Tailored Silica Cages	●
P1604_0996	Kyu Hee Kim	Konyang University	Enhanced Neuroprotective Effects by Encapsulating Ursodeoxycholic Acid in Polymeric Nanosphere	●
P1604_1030	Seung Cheol Park	Kyung Hee University	Selective Enrichment Method and Mass Spectrometric Identification of Phosphatidylinositol	●
P1604_1150	Junghyo Yoon	Junghyo Yoon	Ethanol-dispersed and EpCAM antibody-conjugated nanofibers for selective sensing of circulating tumor cells	●
P1604_1188	Ju Hwan Kim	Dongguk University	Development of improved drug delivery technology based on natural product complexation	
P1604_1197	Da Jung Chung	BioNano Health Guard Research Center	Establishing Infrastructure of Nanomaterials for Bio-Nano convergence	
P1604_1208	Ji Yu Choi	Korea Advanced Institute of Science and Technology (KAIST)	Neuro-Compatible Metabolic Labeling of Individual Living Primary Neurons	
P1604_1209	Matthew Park	Korea Advanced Institute of Science and Technology (KAIST)	Axonal Development of Primary Hippocampal Neurons on Vertically-Grown Silicon Nanowires	
P1604_1210	Mi-Hee Kim	Korea Advanced Institute of Science and Technology (KAIST)	Different developmental responses of hippocampal neurons on negatively charged surfaces	

NANO KOREA 2016 Poster Presentation Schedule

TS05. Nanotechnology for Energy

• Set-up : July 13(Wed.) - July 15(Fri.) 08:00-08:45

• Presentation : July 13(Wed.) 11:00-12:00

• Tear-down : July 13(Wed.) - July 14(Thu.) 16:00-17:00

July 14(Thu.) - July 15(Fri.) 11:30-12:30

July 15(Fri.) 14:00-15:00

Submission No.	Presenter	Affiliation	Title	Award Participation
July 13(Wed.)				
P1605_0038	Young-Joo Eo	Korea Institute of Energy Research (KIER)	Fabrication of Non-vacuum SnS Thin Film for Solar Cell Applications	
P1605_0039	Vivek Ramakrishnan	Kumoh National Institute of Technology	TiO ₂ Nanorods/FTO Anchored with Cobalt oxide Nanoparticles as a Photo-anode with Enhanced Photo-electrochemical Properties	
P1605_0047	Yeageun Lee	Seoul National University	Time-dependent electrochemical performance of plasma enhanced atomic layer deposition yttria-stabilized zirconia	●
P1605_0061	Ji Chan Park	Korea Institute of Energy Research	A thermally stable Co@pSiO ₂ yolk-shell nanocatalyst for Fischer-Tropsch synthesis	●
P1605_0082	Ji Yeon Kang	Myongji University	Effect of Mg/Al atomic ratio on the catalytic properties of Mg-Al hydrotalcites as base catalysts	
P1605_0106	Geun-Ho Han	Korea university	Nano-sized Pd/TiO ₂ catalysts for direct synthesis of hydrogen peroxide from hydrogen and oxygen	●
P1605_0109	Myung-gi Seo	Korea University.	Effect of shell thickness on the direct synthesis of hydrogen peroxide from hydrogen and oxygen over Pd core/porous SiO ₂ shell catalysts	

P1605_0116	Seo Hui Jung	TCIS	Synthesis of tin deposits with controlled morphology by electrodeposition in various plating solutions	
P1605_0171	MD Lutful Kabir	Kyungpook National University	Comparison of Different Acidified Chitosan/Nafion® Composite Membranes for Fuel Cell Applications	●
P1605_0190	Young Jun Kwak	Chonbuk National University	Development of a hydrogen-storage alloy with a high capacity of approximately 6 wt% by adding a transition metal and a halide	
P1605_0193	Jin Park	Chonbuk National University	Cycling performance of NaAlH ₄ and transition metals-added MgH ₂ prepared via milling in a hydrogen atmosphere	
P1605_0198	Jun Choi	Korea Institute of Industrial Technology (KITECH)	Preparation and properties of structural supercapacitors based on poly(ionic liquid)-modified electrodes	●
P1605_0206	Ermias Libnedengel Tsege	Pusan National University	Flexible Lead-Free Piezoelectric Nanogenerator Based on Vertically Aligned BaTiO ₃ nanotube Arrays on Ti-mesh substrate	●
P1605_0215	Jae-seung Jeong	Gyeongsang National University	Effect of ball milling on electrochemical properties of sulfur/poly-acrylonitrile (SPAN) cathode in Li/S battery	●
P1605_0218	Beom-Soo Koh	Hanyang University	Fabrication of the self-humidify PEMFC MEA using Nano Sized Dense Structure Catalyst layer	
P1605_0224	Haeri Kim	Korea Institute of Science and Technology (KIST)	Microscopic Physical Morphology and Chemical Structure Analyses of Au Electrode for Enhanced CO ₂ Reduction Activity	
P1605_0231	Hyelee Park	Inha University	Investigation of electrochemical properties and performance of electrospun carbon nanofiber for rechargeable lithium-air Battery	●
P1605_0247	Minho Mun	Inha University	Study for the Influence of Thermal and Acid Treatment on the Graphite Felt as an Electrode for Vanadium Redox Flow Battery	●
P1605_0281	Hyo-Jin Ahn	Seoul National University of Science and Technology (SEOULTECH)	Metal nanoparticle-embedded porous carbon nanofibers as Pt electrocatalyst supports for direct methanol fuel cells	●
P1605_0288	Sung-Hoon Hong	Kongju National University	Oligomerization of dicyclopentadiene over nanoporous Al-KIT-6 catalysts	
P1605_0321	Yun-Hee Lee	Korea Research Institute of Standards & Science (KRISS)	Nanohardness Mapping around Local Welds in a Hydrogen Reformer	
P1605_0330	Jongsu Seo	Korea Advanced Institute of Science and Technology (KAIST)	Ultra-fine Pt nanoparticle synthesis and their growth mechanism	●
P1605_0347	Seoung-Ju Lee	Hanyang University	Numerical investigation of effects of structural design factors on performance of Solid Oxide Fuel Cell and Electrolysis Cell	
P1605_0350	Sung Soo Shin	Seoul National University	Cathode optimization of solid oxide fuel cell via electro spray deposition method	●
P1605_0362	Tae-Hyun Kim	Hanyang University	Control of the morphology of platinum nanoparticle by microwave-assisted polyol synthesis	
P1605_0369	Jiwhan Kim	Korea Advanced Institute of Science and Technology (KAIST)	Highly Active and Durable Pt-Ti Intermetallic Nanoparticle Catalysts for Oxygen Reduction Reaction	●
P1605_0377	Juhyuk Choi	Korea Advanced Institute of Science and Technology (KAIST)	Durability enhancement of Octahedral PtNi Nanoparticles for the Oxygen Reduction Reaction by Halide treatment	●

P1605_0414	Chi-Woo Roh	Korea Advanced Institute of Science and Technology (KAIST)	Graphene Aerogel type Fe/N/C Catalysts for Electro-reduction of Oxygen in an Acidic Condition	●
P1605_0431	Ying-Jun Gao	Pusan National University	Enhanced rate performance of porous hollow α -Fe ₂ O ₃ nanofibers as anode material for lithium ion batteries	●
P1605_0449	Ye-Ji Han	Inha University	Hydrogen storage behaviors of porous carbons derived from poly(vinylidene fluoride)	●
P1605_0451	Jonghyun Son	Hanyang University	ScSZ electrolyte SOFC performance improvement by grain boundary density control	
P1605_0452	Kyongmin Kim	University of Seoul	Thermoelectric properties of Si multilayer with various ultra-thin insertion layers for thermoelectric device application	
P1605_0465	Hyung-Ryul Rim	Woosuk University	Preparation and Characterization of Carbon Fiber Incorporated with Palladium (Pd) Nanoparticles	
P1605_0476	Gun-hee Moon	Pohang University of Science and Technology (POSTECH)	Photocatalytic conversion of dissolved oxygen to hydrogen peroxide through proton-coupled electron transfer process	
P1605_0508	Thi Toan Nguyen	Yeungnam University	Polyaniline/Tin Dioxide on Carbon Paper Prepared by Electrochemical and Hydrothermal Methods	●
P1605_0516	LEE IL	Korea Advanced Institute of Science and Technology (KAIST)	Fabrication of Pt thin-film based SOFC cathodes by dealloying	●
P1605_0523	YeonJu Kim	Korea Advanced Institute of Science and Technology (KAIST)	Characterization of the kinetic properties of La _{1-x} Sr _x MnO ₃ for solar-thermochemical reactions	●
P1605_0554	Seung Wan Choi	Korea University	Enhanced Lithium- and Sodium-Ion Storage for Interconnected Fluoro-Doped Carbon Nanoparticles Derived from Polyvinylidene Fluoride	●
P1605_0562	Junyeong Yun	Department of Chemical and Biological Engineering, Korea University	Fabrication of foldable asymmetric micro-supercapacitor array	●
P1605_0567	Heun Park	Korea University	Flexible double-sided micro-supercapacitor array with redox active organo-gel electrolyte	●
P1605_0578	Yongmin Ko	Korea University	CNT/transition metal oxide nanoparticle nanocomposite electrode with high electrochemical properties and stability using ligand exchange-induced layer-by-layer assembly	●
P1605_0579	Dongyeeb Shin	Korea University	Layer-by-Layer Assembled Conductive CNT Hybrid Electrodes with High Volumetric Capacitance and Remarkable Stability	
P1605_0589	Kyeounghak Kim	University of Seoul	Simple descriptor for the CO oxidation activity on rare-earth metal doped CeO ₂ (111) surfaces	●
P1605_0601	Eunho Lim	Pohang University of Science and Technology (POSTECH)	Large-Scale and Facile Synthesis of Niobium Pentoxide@Carbon Core-Shell Nanoparticles with Controlled Crystal structure	
P1605_0616	Heeyeon Kim	Korea Institute of Energy Research (KIER)	Fabrication of Nanocellulose Electrode for Long-term stability of PEMFC	●
P1605_0625	Changshin Jo	Pohang University of Science and Technology (POSTECH)	Block-copolymer assisted synthesis of ordered mesoporous inorganic materials	●
P1605_0627	Jung Ha Young	Pohang University of Science and Technology (POSTECH)	Ion transport properties of self-assembled phosphonated block copolymers	
P1605_0714	Su-Won Yun	Pusan National University	Hydrogen oxidation reaction-selective electrocatalysis via fine tuning of platinum ensemble sites using dodecanethiol to enhance the durability of automotive fuel cells	

P1605_0744	Heejin Lee	University of Seoul	in situ Catalytic pyrolysis of Geodaeuksae using a mesoporous zeolite	
P1605_0825	Jooyoung Jeong	Pohang University of Science and Technology (POSTECH)	Structural effects of mesoporous ORR/OER catalysts for energy devices	
P1605_0835	Jue-Hyuk Jang	Korea Institute of Science and Technology (KIST)	Co@C nanocatalysts for oxygen reduction reaction in alkaline media	
P1605_0843	A-Young Seo	Gachon University	NiFe ₂ O ₄ /multi-walled carbon nanotube (MWCNT) nanocomposite as an efficient electro-catalyst for oxygen reduction reaction	●
P1605_0887	Ara Cho	University of Seoul	High-Throughput Computational Screening of Heteroatom-Doped Carbon Materials for Oxygen Reduction Reaction	●
P1605_0890	Sangwon Park	Yonsei University	Si nanosheets-carbon textile composite anode materials for flexible Li-ion batteries	●
P1605_0921	Sung Soo Kim	Daegu Gyeongbuk Institute of Science & Technology (DGIST)	Iodine-Treated Heteroatom-Doped Carbon: Conductivity Driven Electrocatalytic ORR Activity	●
P1605_0964	Yeonmin Im	Gyeongsang National University	Electrochemical properties of continuous and patterned Si film electrodes fabricated on shape memory alloy current collector	●
P1605_0971	Seung Hwan Lee	Korea Institute of Science and Technology (KIST)	Highly-sinterable bimodal gadolinia-doped ceria (GDC) powder synthesized by particle-dispersed glycine-nitrate process	
P1605_0978	Sung Min Choi	Korea Institute of Science and Technology (KIST)	Quantitative analysis of cathode microstructure in Solid Oxide Fuel Cell (SOFC) using FIB-SEM	●
P1605_0983	Youngeun Park	Gwangju Institute of Science and Technology (GIST)	Fuel Heterogeneity in Solid Oxide Carbon Fuel Cells: Reverse Boudouard Reaction	●
P1605_0999	Kahyun Ham	Gwangju Institute of Science and Technology	Electro-oxidation of Mixed Reactants of Ethanol and Formate on Pd/C in Alkaline Fuel Cells	●
P1605_1053	Sang-Woo Kim	Sogang University	Highly conductive hydrocarbon membrane by facilitated Grotthuss mechanism	●
P1605_1055	Seung-Young Choi	Sogang University	Determination of ionic channel size of sPEEK nanocomposite membranes by SAXS	●
P1605_1090	DONG WOOK LEE	Korea Institute of Science and Tech	Study on the effect of the freeze/thaw cycling for the anode durability.	
P1605_1206	Thuy Linh Pham	Chonnam National University	Transport properties of LSCF and LSM and their composites with GDC	

July 14(Thu.)

P1605_0010	Ahreum Lee	Korea University	Efficient Transport of Hot Plasmonic Electrons by Graphene for High Quantum Yield CO ₂ Photoconversion	●
P1605_0067	Jun Tae Song	Korea Advanced Institute of Science and Technology (KAIST)	Highly-efficient and selective photoelectrochemical CO ₂ reduction by Si photo-electrode with Reduced Anodic Au Thin Film	●
P1605_0229	Jeongnan Han	Pusan National University	Photocatalytic reduction of carbon dioxide by mesoporous TiO ₂ hollow sphere doped with lanthanoids	
P1605_0252	Tae soon Park	Inha University	Electrodeposition of porous manganese oxide with various surfactants for supercapacitor electrodes	●
P1605_0272	Da-Young Kang	Sogang University	Direct carbonization of 3D structured patterns and their supercapacitor application	●
P1605_0283	Ulugbek Shaislamov	Jeju National University	Facile synthesis and photoelectrochemical characterization of highly stable hierarchical p-CuO/ZnO nanorod photoelectrode	●
P1605_0286	Jiyoung Hwang	Yeungnam University	Effect of Ag nanoparticles and nanowires on the electrochemical performance of polypyrrole	●
P1605_0299	Su-Jin Ha	Sogang University	In situ formation of sub-micrometer porous scattering layer for dye-sensitized solar cells	●
P1605_0314	Jai Hyun Koh	Korea Institute of Science and Technology (KIST)	Electrocatalytic CO ₂ Reduction on Dendritic Bi for HCOO ⁻ Production	●
P1605_0349	Segeun Jang	Seoul National University	Multiscale Hierarchical Structuring of DSSCs for Efficient Light Harvesting over a broad wavelength range	●
P1605_0368	Se Won Lee	Daegu Gyeongbuk Institute of Science & Technology (DGIST)	Retardation of charge recombination between hole conductor and TiO ₂ layer modified with TiCl ₄ and BaCl ₂ in dye-sensitized solar cells	●
P1605_0415	Jinkyu Lim	Korea Advanced Institute of Science and Technology (KAIST)	Shape Controlled Ir-Ni Bimetallic Nanoparticles for Ir Minimization in the Electrocatalytic Oxygen Evolution Reaction	●
P1605_0509	Yeon bin Choi	Changwon National University	Fabrication and Characterization of Zr/Sn doped CeO ₂ Catalysts for the oxidation of CO to CO ₂ by hydrothermal and preparation method	●
P1605_0542	Eo Jin Lee	Seoul National University	Direct epoxidation of propylene to propylene oxide over Ag-W/ZrO ₂ catalysts: effect of tungsten (W) addition	
P1605_0543	Tae Hyeop Kim	Seoul National University	CrOy/Al ₂ O ₃ -ZrO ₂ catalysts for oxidative dehydrogenation of propane to propylene	
P1605_0544	Min Yeong Gim	Seoul National University	BTX production by direct dehydroaromatization of methane over WO _x /HZSM-5 catalysts	
P1605_0546	Seungwon Park	Seoul National University	Hydrogen production by steam reforming of liquefied natural gas (LNG) over nickel-iron-alumina aerogel catalyst	
P1605_0547	Kwan-Hyoung Jeong	Kongju National University	Synthesis of high energy density fuel through dimerization of bicyclo[2.2.1]hepta-2, 5-diene over nanoporous catalysts	
P1605_0561	Soo Yeong Hong	Korea University	Flexible wire shaped supercapacitor based on nanomaterials for wearable electronics	●

P1605_0564	Sung-Gil Hong	Korea University	Carbon Dioxide Conversion and Utilization based on Highly-stabilized Carbonic Anhydrase	●
P1605_0572	Minkyu Park	Yeungnam University	Enhancement of photocurrents in dye-sensitized solar cells fabricated using Al-incorporated TiO2 powders thermal treated at different temperatures	
P1605_0573	Michael Shincheon Jee	Korea Institute of Science and Technology (KIST)	Surface Heteroatoms on Nanostructured Silver Electrodes for Efficient Electrocatalytic Carbon Dioxide Reduction	●
P1605_0586	Whi Dong Kim	Korea Advanced Institute of Science and Technology (KAIST)	Surface control of metal nanocrystal for efficient CO2 conversion using CO2 and CO as molecular ligand	●
P1605_0587	Seokwon Lee	Korea Advanced Institute of Science and Technology (KAIST)	Structure engineering of CuFeO2 photocathode for efficient CO2 reduction	
P1605_0588	Sunil Jeong	Korea Advanced Institute of Science and Technology (KAIST)	Synergetic effect of Bi2O3 and Cu on photocatalysts for selective conversion of CO2 to CH4	●
P1605_0596	Young-Jin Cho	Pohang University of Science and Technology (POSTECH)	Dual-functional photocatalysts of nano-structured design for achieving H2 evolution in tandem with degradation of organic pollutants	
P1605_0612	Shin Wook Kang	Korea Institute of Energy Research (KIER)	Effect of cobalt metal loading on Fischer-Tropsch synthesis activities over Co/ γ -Al2O3 catalysts: CO conversion, C5+ productivity, and α value	●
P1605_0621	Jong-Ho Kim	Chonnam National University	NOx removal of mortar mixed with TiO2 produced from Ti-salt flocculated sludge	●
P1605_0623	Jinwoo Song	Sungkyunkwan University	CeZrO2/Al2O3 ratio optimized for modifying the metal-foam-coated PdRh/Al2O3 catalyst used for CH4 bi-reforming	●
P1605_0626	Seongseop Kim	Pohang University of Science and Technology (POSTECH)	Rh-based Catalysts inside Nanochannels of Ordered Mesoporous Carbon-Silica Composites for Higher Alcohol Synthesis	●
P1605_0630	Seung Gwan Lee	Chonnam National University	Suppressed N2O formation during NH3 selective catalytic reduction using vanadium on microporous TiO2	
P1605_0632	CHANGSHUAI	Chonnam National University, Korea	Structure determination of novel as-made AIPO ₅ using powder chargeflip method combined with Focus algorithm	
P1605_0644	Geonhee Lee	University of Seoul	Mechanistic Study for Co-Electrolysis of Steam and Carbon Dioxide on Transition Metal Surfaces: A Density Functional Study	●
P1605_0646	Hong Min Seo	Seoul National University	Charge Transfer Mechanism in the MnO Nanocrystals Film during Water Oxidation	●
P1605_0662	Arvind H. Jadhav	Myongji University	Dicationic ionic liquid assisted synthesized mesoporous zeolite as efficient heterogeneous catalyst for dehydration of fructose into 5-hydroxymethyl furfural (HMF)	●
P1605_0664	Tae Woo Kim	Korea Institute of Energy Research (KIER)	Effect of ZnFe2O4 protection layer upon the structural stability and photoelectrochemical performance of BiVO4 photoanodes in basic media	●
P1605_0673	Hoyoung Kim	Chung-Ang University	Ni-based ternary alloy electrocatalysts for Hydrogen Evolution Reaction	●
P1605_0701	Hyejin Jung	Korea Institute of Science and Technology (KIST)	Electrochemical CO2 reduction with transition metal coordinated N-doped carbon	●
P1605_0760	Kang Hee Cho	Seoul National University	Benchmarking on transition metal oxide nanocatalysts for water oxidation	●

P1605_0841	Jin Joo Kim	Korea Atomic Energy Research Institute (KAERI)	Establishment of procedure for small-scale electroplating using Ni-63	
P1605_0878	Yohan Ko	Konkuk University	PbCl ₂ -assisted PbI ₂ Passivation in Planar Heterojunction Perovskite Solar Cells	
P1605_0959	Seungtaeg Oh	Korea Advanced Institute of Science and Technology (KAIST)	A Novel Strategy for an Efficient and Stable Si photoanode for Highly Efficient and Stable Photoelectrochemical Water Splitting	●
P1605_0961	Jae-Hwan Lee	Koera University	Synthesis of furanic compounds from itaconic acid over heterogeneous catalysts	●
P1605_0987	Gwang-Wook Hong	Inha University	Fabrication and electrical properties of regenerated cellulose-loadedexfoliated graphene nanoplatelet composites	
P1605_1027	HakJoo Kim	Korea Institute of Energy Research (KIER)	Carbon dioxide hydrogenation to methanol over Cu-based hybrid catalyst	●
P1605_1065	Hee-Young Park	Korea Institute of Science and Technology (KIST)	Development of cost effective oxygen electrode for polymer electrolyte membrane based water electrolysis using electrodeposition of IrO ₂ on carbon paper	●
P1605_1077	Seunghoe Choe	Korea Institute of Science and Technology (KIST)	Anion exchange membrane water electrolyzer with an ultra-low loading Pt-decorated particle-type Ni cathode	●
P1605_1155	Hyeyoung Shin	Korea Advanced Institute of Science and Technology (KAIST)	Theoretical Approaches for Efficient Electrochemical Conversion of CO ₂	●
July 15(Fri.)				
P1605_0592	Junsoo Kim	Electronics and Telecommunications Research Institute (ETRI)	Thermal resistance of skin for thermoelectric energy harvesting from the body heat	
P1605_0598	Shin-Ae Park	Gyeongnam Techno Park	Highly Porous Nanostructure of PtIr Electrocatalyst via Electrochemical Dissolution Method and Their Superior Electrocatalytic Activity/Stability for Unitized Regenerative Fuel Cell Application	
P1605_0620	Soyeon Jeong	Seoul National University	Lignin Depolymerization over Cu-containing MgO-Al ₂ O ₃ mixed oxides Catalysts in Supercritical Ethanol	
P1605_0624	Seonggyu Lee	Pohang University of Science and Technology (POSTECH)	Designing Highly Active Metal-free Oxygen Reduction Catalysts in the Membrane Electrode Assemblies (MEAs) for Alkaline Anion Exchange Membrane Fuel Cells (AAEMFCs)	
P1605_0635	Gyeong-Seon Jeong	Pusan National University	Transformation of CO ₂ to cyclic carbonate using Cu(II)Tryptophan MOF catalyst synthesized at room temperature	
P1605_0663	Soonha Hwang	Myongji University	Conversion of fructose into 5-hydroxymethylfurfural (HMF) using eco-friendly choline chloride supported on silica nanoparticles as efficient and recyclable heterogeneous catalyst	●
P1605_0668	No-Kuk Park	School of Chemical Engineering, Yeungnam University	Steam effect over Cu-Sn-Zr-based catalysts for SO ₂ reduction in DSRP	
P1605_0692	Seung Hyeok Cha	Pohang University of Science and Technology (POSTECH)	Mechanistic Insights of Zeolite-Catalyzed Transalkylation of 1-, 2-, 4-Trimethylbenzene with Toluene	●
P1605_0721	Young su Noh	Korea University	Nickel supported Structured Catalyst for Steam CO ₂ Reforming of Methane: Effect of Promoter	
P1605_0769	Hakbeum Lee	Hankyong National University	Dehydrogenation of propane over platinum supported on alumina promoted by various metal oxide	

P1605_0820	Yong Beom Park	Pukyong National University	Investigation of hydrogen production from bio oil derived macroalgae over nickel-based catalyst	
P1605_0833	ByungJin Lee	Koera University	Oxidative coupling of methane on improved Pb-substituted hydroxyapatite catalyst	●
P1605_0840	Haryo Pandu Winoto	Korea Institute of Science and Technology (KIST)	Bifunctional Sn-Al-Beta zeolites for cascade conversion of furfural into gamma-valerolactone	●
P1605_0852	Choi Eun Jeong	Koera University	The synthesis of methanol from CO ₂ /H ₂ gas over CeO ₂ -supported catalysts	●
P1605_0885	YINGSHI JIN	Ewha Womans University	Nano-sized Synthesis of surfactant-Free Cu ₂ -xSe and CuAgSe and their Thermoelectric Properties	●
P1605_0898	Min Hong Woo	Korea Institute of Industrial Technology (KITECH)	Electrochemical properties of cell design for high power Lithium-ion batteries	
P1605_0899	Ju Min Kim	Korea Institute of Industrial Technology (KITECH)	Composite Solid Electrolyte based on Garnet type Lithium ion conductor c- LLZO for all solid lithium ion battery	
P1605_0900	Kyung-Jong Noh	University of Seoul	Effect of Doping Ceria with Rare-Earth Metals upon the Catalytic Performance	●
P1605_0902	CHEN RUI	Hanyang University	Silicon based supercapacitor electrode interconnected with three-dimensional network of carbon nanotubes/polyaniline coaxial bundle	●
P1605_0907	Yeongdong Mun	Pohang University of Science and Technology (POSTECH)	Direct Soft-template Synthesis of Ordered Mesoporous Fe/N/C catalyst for Oxygen Reduction Reaction in Fuel Cell	●
P1605_0909	Ji In Park	Korea Institute of Science and Technology (KIST)	Studies of Alkali metal Promoted Cu/ZnO/Al ₂ O ₃ Catalyst on Higher Alcohol Synthesis	
P1605_0911	Eunhee Jang	Korea University	A Thermally Induced Structural transitions of Zeolite Imidazolate Framework-7	●
P1605_0916	Jae Won Jung	Hanyong University	Effect of Pt-Sn catalysts preparation method for propane dehydrogenation	
P1605_0939	Eunjoo Kim	Korea University	Controlling Nanosized Pore Mouth in Chabazite (CHA) Zeolite via Chemical Vapor Deposition for Post-combustion CO ₂ Capture.	●
P1605_0944	Jae-Joon Lee	Dongguk University	Ethylene-polypropylene copolymer as an effective sealing spacer for dye-sensitized solar cells (DSSCs)	●
P1605_0946	Bohyun Hwang	University of Seoul	Suppressing the Sulfur Poisoning on the Anode of Solid Oxide Fuel Cell: A Density Functional Theory Study	
P1605_0973	Dong Hyun Chun	Korea Institute of Energy Research (KIER)	Effects of SiO ₂ Content on the Catalytic Performance of Nanocrystalline Ferrihydrite-Based Fischer-Tropsch Catalysts	
P1605_0985	Minhyung Cho	Korea Advanced Institute of Science and Technology (KAIST)	As-sprayed Silver Nanowires Composite for Electrochemical CO ₂ Reduction in aqueous solution to Syngas with Stable H ₂ /CO ratio	●
P1605_1007	Yisun Choi	Hanyong National University	Propane Dehydrogenation over Pt-Sn catalyst supported on Al ₂ O ₃ nanofiber prepared by electrospinning	
P1605_1040	Sang Hoon Kim	Korea Institute of Science and Technology (KIST)	Catalytic hydrogen oxidation on TiO ₂ /nanoporous Au thin films	

P1605_1045	Sujik Hong	Gwangju Institute of Science and Technology (GIST)	The effect of electrolyte anions on electrochemical CO ₂ reduction on Au catalyst	●
P1605_1072	Bonkee Koo	Korea Institute of Science and Technology (KIST)	Development of Pyrite Based Bi-Functional Layer for High Efficient Organo-Lead Halide Perovskite Solar Cells	
P1605_1128	Inyoung Jeong	Korea Institute of Science and Technology (KIST)	Molybdenum metal contact based perovskite solar cells with high performance and mechanical durability	
P1605_1131	Hyesun Hwang	Ewha Womans University	Oxide Thermoelectric Materials for Heat-to-Electricity Direct Energy Conversion	●
P1605_1132	NGUYEN THI XUAN DIEU	Ewha Womans University	Synthesis and Application of Nanostructure Bi ₂ S ₃ into Perovskite Solar Cell	●
P1605_1152	Hyun Hee Kim	Korea Institute of Energy Research (KIER)	Investigation of the feasibility of crystal-carbon on cellulose using Ni catalyst at low temperature	●
P1605_1174	Dasom Jung	Chonnam National University	Transition metal ion-exchanged zeolite Y as the recyclable catalysts for aerobic oxidation of glycerol	●
P1605_1175	Young Jin Sa	Department of Chemistry	Structural Requirements of Carbon Materials for Active and Durable Oxygen Evolution Electrocatalysis	●
P1605_1176	Jae Hyung Kim	Ulsan National Institute of Science and Technology (UNIST)	Relationship between Metal-Support Interaction and Durability in Platinum Supported on Heteroatom Doped Ordered Mesoporous Carbons for Oxygen Reduction Reaction	●
P1605_1183	Zhenghua Li	Sungkyunkwan University	Deep oxidative desulfurization of aromatic sulfur compounds using ordered mesoporous WO ₃ /KIT-6 as catalysts	
P1605_1185	Chengbin Li	Department of Chemistry, Sungkyunkwan University	Ordered mesoporous ceria-metal supported mixed metal oxide catalysts for CO preferential oxidation reaction in excess H ₂	
P1605_1203	Su Bin Park	Sungkyunkwan University	WO ₃ -Promoted Nanoporous TiO ₂ and Its Photocatalytic Activity	

NANO KOREA 2016 Poster Presentation Schedule

TS06. Safety, Standardization and Regulation of Nanotechnologies

• Set-up : July 13(Wed.) - July 15(Fri.) 08:00-08:45

• Presentation : July 13(Wed.) 11:00-12:00

• Tear-down : July 13(Wed.) - July 14(Thu.) 16:00-17:00

July 14(Thu.) - July 15(Fri.) 11:30-12:30

July 15(Fri.) 14:00-15:00

Submission No.	Presenter	Affiliation	Title	Award Participation
July 14(Thu.)				
P1606_0066	Tae Hwan Shin	Ajou University School of Medicine	Analysis of changes in proteasome pathway gene expression induced by magnetic nanoparticles	●
P1606_0128	Rosa Kim	Korea Institute of Toxicology (KIT)	Biological effects of metal oxide nanoparticles in the presence and absence of the chorion in embryonic zebrafish assay	●
P1606_0132	Youn-Joo Jung	Korea Institute of Toxicology (KIT)	Comparative effects of pristine and aged multi-walled carbon nanotubes to zebrafish	●
P1606_0142	Jae Soon Kang	Korea Institute of Toxicology (KIT)	Toxicological effects of silver sulfide nanoparticles (Ag ₂ S-NPs) transformed from silver nanoparticles (AgNPs) in the environment	●

P1606_0148	Seonghan Lee	Dong-A University	The mechanism of acute eosinophilic inflammation by metal oxide nanoparticles: the role of intracellular eotaxin	●
P1606_0357	Jong Yun Kim	Hanyang University	Quantification method of multiwall carbon nanotube in polymer nanocomposites by Raman spectroscopy	●
P1606_0364	Benedict J. Kang	Korea University of Science and Technology	Multifaceted Toxicity Assessment of Catalyst Composites in Transgenic Zebrafish Embryos	●
P1606_0365	Gun Hyuk Jang	Korea University of Science and Technology	Sequential Assessment via Daphnia and Zebrafish for Systematic Toxicity Screening of Heterogeneous Mixtures	●
P1606_0367	Kwan Hyi Lee	Korea University of Science and Technology	The Shape and Size Effects of Gold Nanoparticles in Zebrafish Embryos	●
P1606_0384	Jin Bae Kim	Hanyang University	Development of Quantitative Nanoproperty-Toxicity Relationship for cytotoxicity of metal nanoparticles	●
P1606_0412	Jinyeong Koh	Hanyang University	Flow Cytometry Approaches for the estimation of cellular Ag Nanoparticles and related ROS production	●
P1606_0419	Jung Sun Lim	Korea Institute of Science and Technology Information	Case Study for Economic Impact of Nanotechnology	
P1606_0472	Jiyong Heo	Korea Army Academy at Yeong-Cheon	Transport and Retention Behavior of PVP-AgNPs in Porous Media: Effect of Soil Organic Matter and Kaolinite Particles	●
P1606_0522	Hangil Lee	Sookmyung Womens University	Photocatalytic Stabilities Depending on Structural Distortion of Metal-Doped TiO ₂ Nanoparticles	
P1606_0525	Min Sook Jeong	Biterials Co. Ltd.	Methodological considerations of electron spin resonance spin trapping technique for measuring of reactive oxygen species generated from metal oxide nanomaterials	●
P1606_0527	Kyu Sup Ahn	Korea Conformity Laboratories (KCL)	In vivo 28-Day Dermal Toxicity Study of Silver Nanowire in SD Rats	●
P1606_0528	Jae Hyuck Sung	Korea Conformity Laboratories (KCL)	In vitro and in vivo genotoxicity evaluation of titanium dioxide nanoparticles (TiO ₂ -NPs)	●
P1606_0529	So Min Lee	Korea Conformity Laboratories (KCL)	Repeated Dose Dermal Toxicity 28-days Study of MWCNT in SD Rats	●
P1606_0532	Jangsik Choi	Kangwon National University	A QNTR model development and validation to predict toxicity of nanomaterials	
P1606_0566	Soojin Kim	Korea Institute of Toxicology (KIT)	Crosstalk between miRNA and signaling pathways involved in developmental neurotoxicity response to silver nanoparticle exposure	
P1606_0735	Hyunjoo Hong	KIST Europe	How to comply with European regulations for Nano-Safety	●
P1606_0752	Xuan Tung Trinh	Hanyang University	Cytotoxicity prediction of metallic nanoparticles using support vector machine and logistic regression	●
P1606_0753	Seong Min Hong	Korea Institute of Toxicology (KIT)	The Effect of Sulfidation on the Transformation of Zinc Oxide Nanoparticles at Different pH Values	●
P1606_0754	Kieu My Ha	Hanyang University	Prediction model for the hazard assessment of engineered nanomaterials based on their fundamental properties	●

P1606_0781	Hyungjoo Kim	Hanyang University	Titanium dioxide inhibits ligand-induced phosphorylation of EGFR in breast cancer cells	
P1606_0782	Donghwan Jeon	Hanyang University	Silver nanoparticles induced modulation of EGFR dimerization in MDA-MB-231 human breast cancer cells	●
P1606_0849	Hangoo Kang	Yonsei University	Silver Nanoparticles Induced Reactive Oxygen Species-dependent Neutrophil Extracellular Trap Formation	
P1606_0962	Song-Hwa Bae	Seoul Women's University	Safety aspects of colloidal gold nanoparticle for high value-added crops and their application in red ginseng cultivation	●
P1606_0986	Naroo Lee	KOSHA	Risk management for process handling carbon nanotubes powders using nano control banding	●
P1606_1008	Jong-woo Lee	Korea Institute of Machinery and Materials (KIMM)	Establishment of nano-products database and safety inventory for the foundation of nano-products safety assessment	
P1606_1010	Hyejin Kim	TO21 Co., Ltd.	Studies on the Test Method for Nano Safety Institutionalized Establishment in Municipal law "K-REACH"	●
P1606_1059	YongSoon Kim	Occupational Safety and Health Research Institute	Effects of nano-sized lanthanum oxide on Sprague-Dawley rats after 4 weeks of inhalation exposure	
P1606_1159	Cristal Céspedes	Kyung Hee University	Life cycle assessment of celery paddy macrocosm exposed to Nano-TiO ₂	●
P1606_1221	Hyunpyo Jeon	KIST Europe	Status quo in NanoQSARs	

NANO KOREA 2016 Poster Presentation Schedule

TS07. Sensor and Actuator

• Set-up : July 13(Wed.) - July 15(Fri.) 08:00-08:45

• Presentation : July 13(Wed.) 11:00-12:00

• Tear-down : July 13(Wed.) - July 14(Thu.) 16:00-17:00
July 15(Fri.) 14:00-15:00

July 14(Thu.) - July 15(Fri.) 11:30-12:30

Submission No.	Presenter	Affiliation	Title	Award Participation
July 13(Wed.)				
P1607_0015	Min-Ah Woo	Korea Food Research Institute (KFRI)	A whole-cell surface plasmon resonance sensor utilizing a leucine Escherichia coli auxotroph displaying a gold-binding protein	●
P1607_0023	Timur Sh. Atabaev	Pusan National University	Ratiometric pH sensor based on fluorescent core-shell nanoparticles	●
P1607_0044	Bong Keun Kang	Daegu-Gyeongbuk Medical Innovation Foundation (DGMIF)	Two-step patterning of microfluidic structures in paper by laser cutting and wax printing for mass fabrication	●
P1607_0048	Kang-Bong Lee	Korea Institute of Science and Technology (KIST)	Highly Selective Colorimetric Detection of Zn(II)Ions Using Label-free Silver Nanoparticles	●
P1607_0055	Manki Son	Seoul National University	Rapid, portable, multiplexed bioelectronic device using carbon nanotubes functionalized with human sensory receptors	●
P1607_0191	Seung-Woo Lee	Korea Institute of Science and Technology (KIST)	Highly facilitated and versatile direct electron transfer of enzymes within layered conductive nanomesh of single-walled carbon nanotubes	●

P1607_0208	Minjung Kim	Kyung Hee University	Highly Flexible and Accurate Temperature Sensor Based on Multi-channel Devices	●
P1607_0227	Hyoun Woo Kim	Hanyang University	Development of highly sensitive gas sensors by using carbon nanotubes decorated with the metal nanoparticles	
P1607_0317	Kidan Lee	Seoul National University	Controlling DNA Translocation Dynamics through Solid-State Nanopore Sensor by Modification of the Device Structure	●
P1607_0370	Jinsoo Park	Gachon University	Electrical Cell-Substrate Impedance Sensing using Interdigitated and Chain-Shaped Electrode Deposited by Gold Nanoparticle	●
P1607_0389	Ji Eun Kim	Sungkyunkwan University	Graphene Biosensor using Self-assembly Protein	●
P1607_0391	Namyun Kim	Gwangju Institute of Science and Technology (GIST)	Skin-mountable, large area covering stretchable surface EMG sensor for detecting multiple signals simultaneously	●
P1607_0605	Wansun Kim	Kyung Hee University	SERS paper strip based on Ag@Au nanoparticle structure using successive ionic layer absorption and reaction technique	●
P1607_0734	Munsik Choi	Kyung Hee University	Combination of periodic gold nanopillar arrays and aperiodic gold nanorods for improving detection sensitivity of surface enhanced Raman spectroscopy	●
P1607_0834	Hawon Lee	Hanyang University	Visualizing Matrix Metalloproteinase-2 Activity in Cultured Cells using Extracellular FRET Bioprobes	●
P1607_0857	Seung Hoon Nahm	Korea Research Institute of Standards & Science (KRISS)	Mass measurement of HS functional groups using a nano-force senso	
P1607_0880	Gyeong-Min Seok	Sogang University	Skin attachable strain sensor based on graphene/silver nanowires	●
P1607_0881	Ki-Hong Kim	Sogang University	Resistive strain sensor and capacitive tactile sensor array in woven fabric form	●
P1607_0918	Gae Baik Kim	Hanyang University	Fluorescence-Quenched Gold Nanosensors via Metal-Coordination for the Detection of Matrix Metalloproteinase Activity	●
P1607_0992	Sungwoo Chun	Hanyang University	Stretchable and transparent all-graphene strain sensor for sensing of stretching, bending, torsion	●
P1607_0994	Joon-Boo Yu	Kangwon National University	Breath Analysis for Lung Cancer Patients using E-Nose Technology	
P1607_1015	Yujin Jung	Korea Advanced Institute of Science and Technology (KAIST)	A fluorescence assay for silver ion based on the target-catalyzed hairpin assembly	●
P1607_1054	Bo-Yeong Kim	Sungkyunkwan University	A Stretchable Biosensor Platform on Elastomeric Substrate	●
P1607_1102	Do Hoon Lee	Koera University	Highly Selective and Sensitive Sensor for the Sub-ppm Detection of NH3 and NO2 Gas Using Porous Channels of ITO Nanoparticles	●
P1607_1111	Imchan Cho	Gachon University	Microfluidic Electrode Sensor for Label-free and Real-time Cytotoxicity Test	●
P1607_1205	Tran Thi Huyen Tran	Chonnam National University	AC characterization of NiO thin films for chemical gas sensor application	

P1607_1214	Dang-Thanh Nguyen	Chonnam National University	Impedance behavior of polycrystalline ZnO–NiO composite thin films for gas sensor application	●
July 14(Thu.)				
P1607_0176	Haena Yim	Korea Institute of Science and Technology (KIST)	Fabrication of all-solid-state LiNi _{0.5} Mn _{1.5} O ₄ /LiPON/SiNx batteries	●
P1607_0394	NandhiniArumugam	Gachon University	Enzyme protected quantum dots as a biosensor for the sensitive detection of acetylcholine	
P1607_0454	Lim kyungsuk	Hallym university	The characteristics of temperature/impedance sensors for bio-applications	
P1607_0474	Heekyeong Park	Kyung Hee University	Mass-productive and eco-friendly fabrication of nanoporous template: Application to humidity sensors	●
P1607_0487	Hyunseok Lee	Korea Institute of Science and Technology (KIST)	All solid-state lithium micro batteries with olivine cathode materials fabricated on contact lens	●
P1607_0533	Sujeong Shin	National Nonofabrication Center (NNFC)	Development of Film-based Electrochemical Integrated Microfluidic Chip for Identification of Fish Species	
P1607_0549	Hyo Sang Yoon	Kwangwoon University	Triboelectric nanogenerators based on PDMS using conductive elastomer and conductive fabric for single-electrode mode operation	●
P1607_1047	Jun-Hyuk Kwak	Korea Institute of Machinery and Materials (KIMM)	Device of voltage generation using PVDF (Poly vinylidene fluoride) wire by electrohydrodynamic method	
P1607_1050	Seonhee Hwang	Pusan National University	Optical Trapping and Measurement of a Single Cell Using Capacitance Sensors	
P1607_1105	Thi-Hoa Le	Gachon University	Silica-Encapsulated ZnSe quantum dots for Detection of Neurotransmitters	
P1607_1108	Peng Shasha	Gachon University	Encapsulation of ZnSe QDs by apoferritin as a sensor media	
P1607_1148	Chang-Beom Kim	Electronics and Telecommunications Research Institute (ETRI)	Microscale magnetic particle imaging using the planar-frequency mixing detection technique (p-FMMD)	
P1607_1149	Ki-Bong Song	Electronics and Telecommunications Research Institute (ETRI)	Sensing and quantification of salivary beta-amyloid peptides and protein sequencing for AD patients	

NANO KOREA 2016 Poster Presentation Schedule

TS08. Computational Nano Science and Technology

• Set-up : July 13(Wed.) - July 15(Fri.) 08:00-08:45

• Presentation : July 13(Wed.) 11:00-12:00

• Tear-down : July 13(Wed.) - July 14(Thu.) 16:00-17:00

July 14(Thu.) - July 15(Fri.) 11:30-12:30

July 15(Fri.) 14:00-15:00

Submission No.	Presenter	Affiliation	Title	Award Participation
July 13(Wed.)				
P1608_0090	Jun-Hyoung Park	Korea University	Unique elastic behaviors of nano-scaled gyroid structure : Molecular dynamics simulation study	●
P1608_0094	Jae Hwa Seo	Kyungpook National University	Design Optimization and Analysis of InGaAs-based Gate-All-Around (GAA) Junctionless Field-Effect Transistor (JLFET)	●
P1608_0098	Ra Hee Kwon	Kyungpook National University	Electrical Performance of InN/GaN-based Tunneling Field-effect Transistor with Subthreshold Swing below 60 mV/decade	●
P1608_0182	Sang Won Jung	Korea University	Enhanced control of DNA translocation dynamics with N-doped carbon nanotube electrodes	●
P1608_0213	Seunghun Jang	Korea Research Institute of Chemical Technology (KRICT)	Theoretical studies on the low melting point metal contacts with carbon nanomaterials	●
P1608_0241	In-Yeob Song	Sungkyunkwan University	Optimal Design of a Sheath Flow Nozzle for Detecting Biological Warfare Agents	●
P1608_0297	Juho Lee	Korea University	Atomistics of Carbon Nanotube-Polyacrylonitrile Interfaces for Next-Generation Carbon Fibers: A Multiscale Computational Study	●
P1608_0324	Ye-Jin Park	Dongguk University	Breakdown Voltage Enhancement in AlGaN/GaN HEMT by Optimizing Gate Field-Plate Structure	●
P1608_0341	Ziyu Cong	Dongguk University	Study of mechanical behavior of BNNT-reinforced aluminum composites using molecular dynamics simulation	●
P1608_0381	Hongseok Jang	Chonbuk National University	The analysis of color expression of CASB mortar using artificial neural network	●
P1608_0513	Keunsu Choi	Korea Institute of Science and Technology (KIST)	Removing Arsenic ion in Water with N-doped Porous Carbon	●
P1608_0553	Seung Mi Lee	Korea Research Institute of Standards and Science	Structural and Vibrational Properties of Al ₂ O ₃ under Stress	●
P1608_0563	Sungjin Pai	Korea Institute of Science and Technology (KIST)	Molecular kinetic analysis of dehydrogenation of CBN-like liquid-phase hydrogen storage materials using ReaxFF	●
P1608_0577	Kang-Seop Yun	Korea Institute of Science and Technology (KIST)	Solid-Electrolyte Interphase Formation on Si/SiO _x Anodes for Lithium-Ion Batteries: Reactive Molecular Dynamics	●
P1608_0641	Eunae Lee	Korea National University of Transportation	Carbon Nanotube Shuttle Memory Device based on Nanoribbon-Nanotube Crossbar	●
P1608_0691	Byung Chul Yeo	Korea Institute of Science and Technology (KIST)	Structural analysis about porous materials for adsorptive separation of propylene/propane: high-throughput screening in 1, 000, 000 systems	●

P1608_0827	Young-Joo Kim	Seoul National University	Design optimization for DNA origami nanostructures	●
P1608_0943	Kyuhyun Lee	Seoul National University	Finding magnetic ordering in antiferromagnetic oxides using genetic algorithm	●
P1608_0945	Yong Youn	Seoul National University	Molecular dynamics simulation for orientation preference in vapor-deposited organic thin films	
P1608_0951	Mincheol Shin	Korea Advanced Institute of Science and Technology (KAIST)	Quantum transport simulation of a cylindrical multishell Silicon-Nanowire Transistor based on Wigner transport equation	
P1608_1009	Jung Hyun	Korea Institute of Science and Technology (KIST)	Surface Oxide Effect on the Lithiation Behavior in Different Oxide Thickness with Silicon Nano Wire: Molecular Dynamics Study	●
P1608_1018	Geon Hyeong Lee	Hongik University	Effect of dual donor and heteroleptic dual acceptor for Dye-sensitized solar cells	
P1608_1019	Hoe yeon Jeong	Hongik University	Thioxanthen-based organic light-emitting diode exhibiting thermally activated delayed fluorescence	
P1608_1114	sang-kon kim	Hongik University	Effects of Line-Edge Roughness on 10-nm Pattern Formation and FinFET Performance	●
P1608_1127	Won-Ho Lee	Gangneung-Wonju National University	Numerical Simulation on Arc discharge and Anode Sublimation for Nanoparticle Synthesis	●
P1608_1142	Hong-Cheol Shin	Sungkyunkwan University	Numerical study on the forced convection heat transfer of nanofluids in micro-channels	
P1608_1143	Hyeong-Geun Kim	Sungkyunkwan University	Numerical study on the pool boiling heat transfer of water-based nanofluids on a vertical surface	
July 14(Thu.)				
P1608_0373	MIN CHOI	Ulsan National Institute of Science and Technology (UNIST)	CO2 reduction on the grain boundary between 1T and 2H phases of MoS2: first-principles calculations	
P1608_0390	Yoon Su Shim	Korea Advanced Institute of Science and Technology (KAIST)	Atomic self-interaction correction calculations of transition metal dichalcogenides multilayers and heterostructures	●
P1608_0453	Hiroshi Mizuseki	Korea Institute of Science and Technology (KIST)	Computational screening of zeolitic imidazolate frameworks for gas separation	
P1608_1022	Minho Lee	Virtual Lab. Inc	Virtual Lab : Web based simulation platform	
P1608_1080	Geum Bi Jeong	Korea Advanced Institute of Science and Technology (KAIST)	Effects of iron atom on two-dimensional C2N crystals	
P1608_1196	Chan-Woo Lee	Korea Institute of Energy Research (KIER)	Reaction Mechanisms of Oxide Catalysts with Exsolution	●
P1608_1199	Jung Joon Yoo	Korea Institute of Energy Research (KIER)	Atomic-level simulations of reduced graphene oxide/manganese oxide supercapacitor	●