

NANO KOREA 2017 Symposium_Poster Presenters List

No	Session	Abstract No.	Presentation Type	Presenter (발표자)	Affiliation	Presentation Title
1	TS01	P1701_0016	Poster	SUNGIL KIM	Korea Institute of Machinery and Materials (KIMM)	Rapid Monolithic Fabrication of Glass-based Microfluidics Device using Femtosecond Laser Process
2	TS01	P1701_0077	Poster	JEONG-GEUN YUN	Seoul National University	Ultra-thin and high efficiency circular polarization converter using flat optics
3	TS01	P1701_0084	Poster	Da Ye Song	Hanyang University	Electronic and optoelectronic characteristics from MoS2 heterojunction structure with Si substrates
4	TS01	P1701_0085	Poster	Sun-Je Kim	Seoul National University	Ultra-thin active VO2 metafilm for double target absorption spectra
5	TS01	P1701_0122	Poster	Hao-Hsiang Liang	National Chiao Tung University	Study on the Low Temperature Processing of n-Channel Polycrystalline-Germanium Thin-Film Transistors with the Continuous Wave Laser Crystallization
6	TS01	P1701_0146	Poster	Ju Hwan Lee	Yonsei University	Capacitance-voltage hysteresis-free aligned liquid crystals on solution-derived lanthanum zinc oxide films as a function of ion-beam irradiation intensity
7	TS01	P1701_0152	Poster	Min Ju Yun	Sejong University	Oxygen-rich indium tin oxide based transparent forming free resistive random access memory devices with cross-bar array structures
8	TS01	P1701_0174	Poster	Pei-Chen Huang	National Chung Hsing University	Lattice orientation effect of local stressors on the width dependence performance of high-k metal gate pMOSFETs
9	TS01	P1701_0186	Poster	Hyeon-Tak Kwak	Dongguk University	Thermal analysis of AlGaN/GaN HEMT and its RF power efficiency optimization with source-bridged field-plate structure

10	TS01	P1701_0191	Poster	Jun Gyu Lee	Hanyang University	Effect of interface trap on the electrical characteristics of three-dimensional vertical NAND flash memory devices
11	TS01	P1701_0212	Poster	Chihyun Park	Yonsei University	Reversible deposition of stable silver thin films for bistable and switchable polarizer
12	TS01	P1701_0222	Poster	Yooji Hwang	Koera University	Au Nanostructured Layer by Laser Interference Lithography for Enhancing Absorption of Mid-IR spectrum
13	TS01	P1701_0225	Poster	Shih-Hung Chen	National Chiao Tung University	Investigation of thick oxide capping layer for germanium thin films via excimer laser crystallization
14	TS01	P1701_0228	Poster	Ilmin Lee	Sungkyunkwan University	Nanogap Field-Effect Transistor based on graphene electrodes with low DIBL and short channel effect.
15	TS01	P1701_0232	Poster	Jongwoo Hong	Seoul National University	Numerical analysis for complex modulation on slanted waveguide with plasmonic cavity-aperture
16	TS01	P1701_0236	Poster	Sang-Eun Mun	Seoul National University	Transmission enhanced phase-only modulation based on multi-nanorod metasurface
17	TS01	P1701_0238	Poster	Kyeong-Keun Choi	National Institute for Nanomaterials Technology (NINT)	CVD carbon film for capping layer in 4H-SiC based MOSFETs devices
18	TS01	P1701_0253	Poster	Joo Won Han	Pukyong National University	White organic light-emitting diodes with high performance down-conversion light extraction films.
19	TS01	P1701_0269	Poster	Kwang-Wook Choi	Koera University	Plasmon Effect for Enhancing Infrared Absorption by Using Au Nanoparticles with Graphene
20	TS01	P1701_0270	Poster	Boo Heung Lee	Sungkyunkwan University	High quality photodetector using vertically stacked heterostructure Graphene/h-BN/Silicon
21	TS01	P1701_0296	Poster	Jungdong Kim	Chungnam National University	Photocurrent characteristics of PbS interdigit devices

22	TS01	P1701_0299	Poster	Hyeck Go	Chonnam National University	Light-scattering layer based on sub-micron pores in polymeric media for optoelectronic devices
23	TS01	P1701_0302	Poster	Hansik Yun	Seoul National University	Surface plasmon resonances at two separated metal caps
24	TS01	P1701_0311	Poster	Byoung-Soo Yu	Kwangwoon University	Interfacial engineering on solution-processed boron-nitride thin films for optoelectronics
25	TS01	P1701_0312	Poster	Liu Na	Sungkyunkwan University	Synthesis of large-area and high crystalline multilayer MoSe ₂ for high performance thin-film transistors
26	TS01	P1701_0327	Poster	Kang, Doo Hyung	Korea Advanced Institute of Science and Technology (KAIST)	Synchronization by electrical coupling of parallel-connected spin torque nano-oscillators
27	TS01	P1701_0333	Poster	Siti Aisyah Nurmaulia Entifar	Pukyong National University	High Performance Silver Nanowire Transparent Electrodes for Stretchable Electronics
28	TS01	P1701_0335	Poster	Ui Yeon Won	Sungkyunkwan University	High performance MoS ₂ /h-BN/Si photodetector by adjusting tunneling current
29	TS01	P1701_0340	Poster	Young Rae Kim	Sungkyunkwan University	Electrostatically transparent graphene quantum-dot trap layers for efficient nonvolatile memory
30	TS01	P1701_0342	Poster	Sanghyeon Nam	Korea Advanced Institute of Science and Technology (KAIST)	Inch-scale, nano-periodic woodpile structure by proximity field nanopatterning (PnP) with conformal multi-level phase mask
31	TS01	P1701_0347	Poster	Joonam Kim	Sungkyunkwan University	Highly increased responsivity of MoS ₂ thin film by treating All-trans-retinal
32	TS01	P1701_0371	Poster	Hyunsu Jung	Mokpo University	Stretchable and smooth transparent electrodes based on silver nanowires for stretchable electronics
33	TS01	P1701_0387	Poster	Jeung Pyo Oh	Department of Physics, Chonnam National University	Characteristics electro-mechanically driven luminescence elastomer composite film using ZnS:Cu and ZnInSnO/Ag/ZnInSnO.

34	TS01	P1701_0407	Poster	Gyeongho Son	Korea Advanced Institute of Science and Technology (KAIST)	Fabrication of fiber taper waveguides using tube-etching
35	TS01	P1701_0408	Poster	dong gyu kim	Korea Institute of Science and Technology (KIST)	Highly flexible transparent silver electrode with enhanced nanowire networks
36	TS01	P1701_0412	Poster	Nathaporn Promros	King Mongkut's Institute of Technology Ladkrabang	Estimation of series resistance and interface state density in n-type nanocrystalline FeSi ₂ /intrinsic Si/p-type Si heterojunctions
37	TS01	P1701_0413	Poster	Nathaporn Promros	King Mongkuts Institute of Technology Ladkrabang	Junction parameters of boron-doped p-type ultrananocrystalline diamond/ n-type silicon heterojunctions prepared by pulsed laser deposition
38	TS01	P1701_0443	Poster	Byoung-Cheol Kang	Kwangwoon University	Ultra low voltage operating single-walled carbon nanotube thin-film transistors
39	TS01	P1701_0457	Poster	Sung Ho Song	Kongju University	Electroluminescence Graphene Quantum Dots Prepared by Graphite Intercalation Compounds
40	TS01	P1701_0464	Poster	Hyoungbeen Ju	Hanyang University	Top gate field effect transistor based on atomic layer deposition-grown SnS ₂
41	TS01	P1701_0465	Poster	Jonghyun Choi	Hanyang University	Transfer characteristics of Zinc Tin Oxide thin-film transistors depending on sputter deposition conditions
42	TS01	P1701_0468	Poster	Sunjin Kim	Hanyang University	Improved electrical characteristics of zinc tin oxide thin film transistors using hydrogen plasma treatment and vacuum annealing
43	TS01	P1701_0476	Poster	Chaewon Kim	Kookmin University	Hybrid electrodes with silver nanowires and indium tin oxide nanoparticles (ITO-NPs) for improved charge injection in solution-processed indium gallium zinc oxide (IGZO) thin-film transistors (TFTs)
44	TS01	P1701_0482	Poster	Chang-Ju Lee	Kyungpook National University	Evaluation method for field-effect mobility of graphene considering gate bias-induced contact resistance modulation effects

45	TS01	P1701_0499	Poster	Ju Chan Lee	Hankyong National University	Workfunction engineering of source-overlapped dual-gate tunnel field-effect transistor
46	TS01	P1701_0516	Poster	Seung-Gon Song	University of Seoul	Properties of an asymmetric double barrier device using charging effects for nonvolatile memory application
47	TS01	P1701_0524	Poster	Sang-Geon Park	Silla University	Characteristics of OLEDs Improved by Introducing a Fluorinated Self-Assembled Monolayer as a Buffer Layer
48	TS01	P1701_0535	Poster	Jaehyeon Son	Korea Advanced Institute of Science and Technology (KAIST)	Time-varying terahertz metasurfaces and frequency conversion via non-adiabatic transformation of resonances
49	TS01	P1701_0557	Poster	Dong Chul Choo	Hanyang University	Electrical and optical properties of silver nanowire electrode patterns fabricated utilizing UV/ozone treatment
50	TS01	P1701_0584	Poster	Taeho Kim	Hanyang University	Achieving high mobility of zinc oxynitride thin-film transistor by metal capping method
51	TS01	P1701_0585	Poster	Joonsung Ahn	Hanyang University	Carrier transport mechanisms of field effect transistors based on the high-k layer sandwiched compound semiconductor materials
52	TS01	P1701_0586	Poster	Hyun Soo Jung	Hanyang University	Enhancement mechanisms of the electrical characteristics of 3D NAND flash memory devices due to an embedded buried channel
53	TS01	P1701_0588	Poster	Kee Tae Kim	Hanyang University	Electric potentials and electron densities of vertical flash memories with a macaroni structure
54	TS01	P1701_0597	Poster	Soo Yeun Han	Inha University	Effect of Rb incorporation on crystallization of IZO films in TFT device
55	TS01	P1701_0601	Poster	Jae Hyeon Park	Department of Electronics and Computer Engineering, Hanyang University, Seoul	Comparative analysis of self-heating effect on the electrical characteristics of n-MOS and p-MOS strained Si FinFETs

56	TS01	P1701_0605	Poster	Taehoon Lee	Hanyang University	Transparent Resistive Switching Devices using ZnO on Metal-Capped ITO Electrode for Improved Resistive Characteristics
57	TS01	P1701_0654	Poster	Sangwan Kim	Ajou University	Enhanced compact model for Ge-Si heterojunction double-gate tunnel field-effect transistors (TFETs)
58	TS01	P1701_0663	Poster	Byoung Jun Park	KU-KIST Graduate School of Converging Science and Technology, Korea University, Seoul 02841, South	Nano-Slot Photonic Crystals
59	TS01	P1701_0665	Poster	Doohyoek Lim	Korea University	Bendable silicon nanowire bistable resistor for capacitor-less 1T-DRAM
60	TS01	P1701_0670	Poster	Jae-Won Choi	Inha University	A low temperature solution based In ₂ O ₃ thin film transistors fabrication using visible laser assisted combustion process
61	TS01	P1701_0695	Poster	Young-Ho Jin	KU-KIST Graduate school of Converging Science and Technology	Field engineering of plasmonic nanocavity for efficient coupling with silicon waveguide
62	TS01	P1701_0696	Poster	Hong Hee Kim	Korea Institute of Science and Technology (KIST)	A very flexible inverse quantum dot light-emitting diode (LED) on an elastic polyurethane (PU)
63	TS01	P1701_0697	Poster	Sang-Hyeok Mun	Kyungpook National University	Active Graphene Meta-lens operating in Terahertz regime
64	TS01	P1701_0704	Poster	오윤석	연세대학교	Tuning of plasmonics extinction for Ag/Au bimetallic nanoparticles by laser-induced dewetting
65	TS01	P1701_0724	Poster	Manh-Cuong Nguyen	Inha University	A characterization method for carrier enhancement and defect distribution in floating body devices using numerical simulation
66	TS01	P1701_0731	Poster	Yeji Lee	Pusan National University	Detection of human serum albumin using extraordinary optical transmission sensor

67	TS01	P1701_0739	Poster	Tae Young Kang	Pusan National University	Variation of Highly Localized Plasmon Field of Trapezoidal Nanowire Structure
68	TS01	P1701_0747	Poster	Daehwa Jung	Department of Electrical Engineering	Wafer-scale fabrication of two-dimensional MoS ₂ field effect transistor
69	TS01	P1701_0749	Poster	Kyungjun song	Korea Institute of Machinery and Materials (KIMM)	Concentric artificial impedance surface for sound beamforming
70	TS01	P1701_0760	Poster	Hyerin Song	Pusan National University	Energy transfer through metallic antenna shaped in I, T and Y
71	TS01	P1701_0784	Poster	Heesang Ahn	Pusan National University	Surface plasmon resonance sensor based on composited material
72	TS01	P1701_0787	Poster	BOYOUNG KANG	Center for Advanced Meta-Materials	Directional asymmetry of transmission in a planar metamaterial
73	TS01	P1701_0790	Poster	Minsu Park	Korea Advanced Institute of Science and Technology (KAIST)	Highly efficient solid-state photoluminescence from graphene quantum dot incorporated boron oxynitride nanostructure
74	TS01	P1701_0793	Poster	Taerim Yoon	Pusan National University	Design of mobile phone based total internal reflection fluorescence microscope for real-time detection
75	TS01	P1701_0800	Poster	JaeYoung Jo	Inha University	Verdet constant measurement of magneto-optic materials with an auto-balanced photodetector under alternating magnetic fields
76	TS01	P1701_0807	Poster	Tae Jun Ahn	Hankyong National University	Electrical characteristics of Ge/Si-based Source Pocket Tunnel Field-Effect Transistors
77	TS01	P1701_0819	Poster	Heon Kong	Chonnam National University	Properties of defect mode in one-dimensional photonic crystals based on tellurium suboxide
78	TS01	P1701_0829	Poster	Ke Luo	Kyung Hee University	Electrical method to evaluate the effect of calcium carbonate nanoparticles on membrane dynamics
79	TS01	P1701_0842	Poster	Ki-Baek Jeong	Kyung Hee University	Structural change of DNA by ionic liquids and its characterization using solid state nanopore

80	TS01	P1701_0860	Poster	soon yeol Kwon	Kyungpook National University	Development of lift-off patterning technology of ZnO-graphene thin films on plastic substrates for flexible and transparent thin film transistors
81	TS01	P1701_0862	Poster	Kyung Rock Son	Korea University	Improved light-output power from high-density, GaN-based micro-light-emitting diode arrays
82	TS01	P1701_0872	Poster	Sehyun Kwon	Hanyang University	Characteristics of Z2-FET : A floating-body capacitorless 1T-DRAM device
83	TS01	P1701_0889	Poster	Hyun Sung Park	Korea Advanced Institute of Science and Technology (KAIST)	Tunable, nondispersive optical activity of quasi-planar, bi-layered chiral metamaterials
84	TS01	P1701_0894	Poster	Yong Seon Shin	Sungkyunkwan University	The analysis on mobility of Vertical field effect transistors composed by Graphene/WSe2 heterostructure
85	TS01	P1701_0898	Poster	Yongsu Lee	Gwangju Institute of Science and Technology (GIST)	Fabrication and characteristics of Three dimensional nano electro-mechanical switch(NEMS) using multi-layer graphene
86	TS01	P1701_0912	Poster	Shunichi Nabeya	Yeungnam University	Atomic layer deposited Ru thin films using a novel Ru precursor and non-oxidizing reactants as a seed layer for Cu interconnects
87	TS01	P1701_0917	Poster	Yushin Kim	Korea Advanced Institute of Science and Technology (KAIST)	Transformed whispering gallery modes in a cavity with spatially varying thickness
88	TS01	P1701_0930	Poster	Soojeong, Baek	Korea Advanced Institute of Science and Technology (KAIST)	Broadband THz Tunable Beam Splitter Based on Electrically-controlled Graphene Metadevices
89	TS01	P1701_0931	Poster	ShinYoung Jeong	Korea Institute of Science and Technology (KIST)	Microscale multi-patterned Full-color Quantum dot Light-emitting devices
90	TS01	P1701_0935	Poster	Jagang Park	Korea Advanced Institute of Science and Technology (KAIST)	Electric-Field-Induced Second-Order Nonlinearities for Terahertz Waves

91	TS01	P1701_0938	Poster	Dae Woong Kwon	Seoul National University	Effects of pillar conditions on DC/AC characteristics of tunnel field-effect transistor with vertical structures
92	TS01	P1701_0939	Poster	Hyeon-Don Kim	Korea Advanced Institute of Science and Technology (KAIST)	Electrical control of one circular polarisation in graphene integrated chiral metamaterials
93	TS01	P1701_0945	Poster	Yong-Rae Jang	Department of Mechanical Convergence Engineering, Hanyang University, Haengdang-dong, Seongdong-gu,	Wavelength-controlled plasmonic flash light welding of silver nanowire using optical filters
94	TS01	P1701_0946	Poster	Wan-Ho Chung	Hanyang University	In-situ monitoring of silver nanowires via combined flash light irradiation process with UV-C, NIR and xenon lamp for flexible transparent electrode
95	TS01	P1701_0953	Poster	Ji-Hyeon Chu	Hanyang University	Filling and flash light sintering of via-hole using hybrid-ink for printed electronics
96	TS01	P1701_0990	Poster	Hyounguk Kim	Korea Institute of Science and Technology (KIST)	Plasmonic enhanced optical characteristics of Ag nanoparticles/ZnO nanorods heterostructure
97	TS01	P1701_0995	Poster	Gyu-Jae Yohn	Korea Polytechnic University	Wide bandgap transparent conducting electrode of FTO/Ag/FTO multilayer for ultraviolet light-emitting diodes
98	TS01	P1701_0997	Poster	Byungsoo Kang	Korea Advanced Institute of Science and Technology (KAIST)	Directional thermal infrared absorption and emission of zero refractive index dielectric metamaterials
99	TS01	P1701_0998	Poster	Joon-Sung Kwon	Korea Polytechnic University	High reliability Ag reflective electrode with Cu alloy nanoparticles for high efficient GaN-based light emitting diodes
100	TS01	P1701_1016	Poster	Euyhwan Park	Seoul National University	Back-bias effect on nanowire Tunnel Field-Effect Transistors for Modulating Turn-on point

101	TS01	P1701_1017	Poster	Yohan Lee	Seoul National University	Electro-optic phase modulator using conducting oxide metasurfaces
102	TS01	P1701_1020	Poster	Hyeonsoo Park	Seoul National University	Perfect construction of plasmonic field by regularized dipole-like radiation
103	TS01	P1701_1021	Poster	Sanghun Jeon	Korea University	Fast and slow transient charging of InSnZnO Transistors
104	TS01	P1701_1022	Poster	Sanghun Jeon	Korea University	Microsecond Pulse I-V Approach to Understanding Defects in Nanocrystalline InSnZnO Transistor
105	TS01	P1701_1023	Poster	Sanghun Jeon	Korea University	Discharging current analysis on InHfZnO Transistors
106	TS01	P1701_1043	Poster	Yong Hyun Kim	Pukyong National University	High Performance ITO-Free White Organic Light-Emitting Diodes Using Highly Conductive PEDOT:PSS Transparent Electrodes
107	TS01	P1701_1051	Poster	Seong-Min Hong	Korea Institute of Machinery and Materials (KIMM)	Roll-based Transfer Process of Micro Light Emitting Diode with Direct Interconnection via Solder Paste
108	TS02	P1702_0007	Poster	Duck-Hyun Kim	Catholic University of Daegu	Photopolymerization and characterization of dental resin cement containing nano material
109	TS02	P1702_0017	Poster	Changhyun Roh	Korea Atomic Energy Research Institute (KAERI)	Design and coating of Au nanoparticles
110	TS02	P1702_0051	Poster	Sora An	Gachon University	Hydrogel-Based Recyclable Photocatalysts for Wastewater Treatment
111	TS02	P1702_0072	Poster	Vu K.H. Bui	Gachon University	One-pot synthesis of magnesium aminoclay-titanium dioxide nanocomposites for photocatalytic performances
112	TS02	P1702_0089	Poster	Tae Won Yuk	KOREATECH	Manufacture of two dimensional electrodes by Transition metal Ditellurides which have High electric conductivity and Transparent properties
113	TS02	P1702_0102	Poster	Muhammad Sohail	University of Science & Technology (UST)	High Crystalline NH ₂ -MIL-125 MOF Synthesis and its Promising S-Shaped Water Isotherms

114	TS02	P1702_0120	Poster	Young Jun Kwak	Chonbuk National University	Development of an Mg-Based Alloy with High Hydriding and Dehydriding Rates and a Large Hydrogen Storage Capacity by Adding TaF5
115	TS02	P1702_0134	Poster	Eun Ho Choi	Chonbuk National University	Improvement of Hydrogen-Storage Characteristics of Magnesium Hydride by Grinding with Sodium Alanate and Transition Metals in Hydrogen Atmosphere
116	TS02	P1702_0136	Poster	Min Gyu Kim	Pusan National University	The microstructural evolution and electrochemical property of HRDSRed Mg-6Al-1Zn-X(Ti, Ca) alloys
117	TS02	P1702_0138	Poster	Chang-kook Jang	Youngyiel Precision	A study on the thermal properties of the thermal compounds including various metal oxide nanoparticles
118	TS02	P1702_0141	Poster	Si-hoon Jang	Korea Institute of Industrial Technology (KITECH)	Synthesis and characterization of polyimide-halloysite nanotubes nanocomposite materials
119	TS02	P1702_0142	Poster	Yang No Yun	Korea Institute of Energy Research (KIER)	Fabrication of Mixed Matrix Membrane based on MOP and XLPEO for CO2 Separation
120	TS02	P1702_0145	Poster	Suhyun Kim	Korea Research Institute of Chemical Technology (KRICT)	Mechanical and thermal properties of epoxy composites containing zirconia impregnated halloysite nanotubes with different loadings
121	TS02	P1702_0147	Poster	Geun Chul Park	Sungkyunkwan University	Influence of annealing temperature on morphology and photocatalytic performance of ZnO nanorods
122	TS02	P1702_0153	Poster	Christine B. Hatter	Drexel University	2D Transition Metal Carbide/Nitride (MXene) Fillers for Enhancing Electromagnetic Interference Shielding and Mechanical Properties of Nanocomposites
123	TS02	P1702_0155	Poster	Jun Kim	Korea University	Phase transformation of Cu _{1.94} S hexagonal nanoplate via consecutive cation exchange with Au and Ag toward enhanced plasmonic properties
124	TS02	P1702_0156	Poster	Jiwoong Yang	Seoul National University	Designed Synthesis of Multielement Magic-sized Nanoclusters

125	TS02	P1702_0159	Poster	Simeon Gilbert	University of Nebraska-Lincoln	Cyclodextrin-carbon nanotube composites for fluorescent detection of cholesterol
126	TS02	P1702_0163	Poster	Trinh Duy Nguyen	Nguyen Tat Thanh University	Metal-organic framework MIL-53(Fe) and Ni-doped MIL-53(Fe) for the photocatalytic degradation of organic dyes under visible light irradiation
127	TS02	P1702_0169	Poster	Hanuk Lee	Hanyang University	Application of iron-based nanotube as Z-scheme photocatalyst under simulated solar light
128	TS02	P1702_0170	Poster	Sung Hyuk Lee	KOREATECH	Effect of cooling rates on mechanical properties of metallic glasses.
129	TS02	P1702_0177	Poster	Nguyen Minh Thuyet	University of Ulsan	Mechanical and magnetic properties of Ni-graphite nanocomposite synthesized by electrical explosion of wire followed by spark plasma sintering
130	TS02	P1702_0178	Poster	Hee-Man Yang	Korea Atomic Energy Research Institute (KAERI)	Facile synthesis of magnetic hydrogel beads for the removal of radioactive cesium from water
131	TS02	P1702_0181	Poster	Se Jung Kim	Korea University	Improvement of barrier properties by LBL assembly deposition of Nano composites
132	TS02	P1702_0192	Poster	Bo Ram Lee	Korea Institute of Industrial Technology (KITECH)	Manufacturing and characterization of poly(lactic acid) using list polymerization reactor
133	TS02	P1702_0193	Poster	Byung Hyo Kim	Institute for Basic Science	In-situ Tracking of Nanoparticle Self-assembly Using Liquid Cell Electron Microscopy
134	TS02	P1702_0208	Poster	Wissanu Charerntanom	Rajamangala University of Technology Thanyaburi	Preparation of Nanosheets from Natural Magnetic Leucoxene Mineral for Electromagnetic Wave Absorber
135	TS02	P1702_0209	Poster	Wisanu Pecharapa	King Mongkut's Institute of Technology Ladkrabang	Effects of annealing temperature of seeding layer on physical and morphological structure of Ga/F co-doped ZnO nanostructures

136	TS02	P1702_0210	Poster	Jae-Young Lee	Woosuk University	Electroless Preparation of ZnO Nanorods on Polyacrylonitrile (PAN) Fiber Activated by Palladium (Pd) Nanocatalysts via a Drying Process
137	TS02	P1702_0211	Poster	Prasopporn Junlabhut	Rajabhat Rajanagarindra University	Effect of metal (Mn, Co, Zn, Ni) doping on structural, optical and photocatalytic properties of TiO ₂ nanoparticles synthesized via sonochemical process
138	TS02	P1702_0216	Poster	Sue In Chae	Seoul National University	Colloidal Synthesis of Molybdenum Disulfide Nanosheets for Nonvolatile Resistive Memory Device
139	TS02	P1702_0220	Poster	Gyu-Dam Lim	Hanyang University	Thermal Shielding Performance of Copper Sulfide Nanoparticle Silicone Composite Using Near Infrared Absorption Property
140	TS02	P1702_0221	Poster	JinHyeon Kim	Hanyang University	Improvement of Thermal Conductivity by 3 - Dimensional percolation Microstructure and Silane Coupling Agent of h-BN / PMMA Composites.
141	TS02	P1702_0229	Poster	Jimin Lee	Hanyang University	Synthesis and Magnetic properties of Samarium-Cobalt Nanowires : A Novel structure based on Electrospinning
142	TS02	P1702_0239	Poster	Hye-Ran Kim	Hanyang University	Adsorption of ionic compounds with chitosan modified magnetic cored dendrimer for the decontamination
143	TS02	P1702_0242	Poster	Hongseok Jang	Chonbuk National University	Properties of carbon amino silica black mortar using fly ash
144	TS02	P1702_0244	Poster	Seock-Jin Yoon	Korea National University of Transportation	Synthesis of metal nanoparticles based on mopholinium ionic liquid
145	TS02	P1702_0247	Poster	Yeonwoo Jeong	Chungbuk National University	Polyphenol-Mediated CaCO ₃ Mineralization for Surface Engineering
146	TS02	P1702_0249	Poster	Jeen Moon Yang	Yonsei University	Oxidation and Metallization Mechanism of Silicon 1D and 2D Nanostructures

147	TS02	P1702_0263	Poster	Chae Hee Park	Sungkyunkwan University	Enhanced Photocatalytic Activity of Anatase TiO ₂ Mesocrystal/CNT through Calcination Process
148	TS02	P1702_0264	Poster	Dongwan Kim	Inje University	Influence of annealing temperature on morphological and temperature-dependence photoluminescence properties of ZnO nanorods
149	TS02	P1702_0272	Poster	Junki Min	Kyonggi University	Study of Transparent Glass-Ceramic Containing Fresnoit according to the Crystallization Schedule
150	TS02	P1702_0278	Poster	Younghwan Kwon	Daegu University	Mechanical and thermal insulation properties of porous silica/polyurethane composites
151	TS02	P1702_0290	Poster	Suk Won Yoon	Gachon University	NiO-Fe ₂ O ₃ /graphene based 3D macroporous electro-catalyst for hydrogen evolution using dark fermented effluent in microbial electrolysis cell
152	TS02	P1702_0294	Poster	Jeongbin Kim	Kyonggi University	Nano glass-ceramics with a high thermal conductivity and transparent property in ZnO-Al ₂ O ₃ -SiO ₂ system
153	TS02	P1702_0295	Poster	Kang Dong Ho	Gachon University	A nanocomposite anion conducting membrane based on poly(phenylene oxide)/1, 4-diazabicyclo[2.2.2]octane functionalized graphene oxide and cellulose for fuel cell application
154	TS02	P1702_0300	Poster	Wooseong Jeon	Inje University	Effect of electric current on oxidation of Zn films to ZnO nanostructure by electrodeposition method
155	TS02	P1702_0305	Poster	Hyun-Kyung Kim	Hanyang University	Adsorption of lead and cadmium onto magnetic-cored dendrimers at different pH conditions
156	TS02	P1702_0307	Poster	Dae-Han Kim	Chungbuk National University	Synthesis of Spherical Prussian Blue with High Surface Area by Acid Etching

157	TS02	P1702_0320	Poster	Myung-rang Chae	Gyeongsang National University	Fabrication and Electrochemical Properties of Silicon-Carbon fibers by Electrospinning
158	TS02	P1702_0341	Poster	Hyunuk Kim	Korea Institute of Energy Research (KIER)	Hybrid inorganic nanosheets and metal-organic framework for efficient photocatalytic water splitting
159	TS02	P1702_0343	Poster	So Eun Jeon	Changwon National University	Structural and magnetic properties of nanocrystalline Mn-Ni powders prepared by ball-mill method
160	TS02	P1702_0345	Poster	Bulgan Tsedenbal	Changwon National University	Investigation of the optical and magnetic properties of α -Fe ₂ O ₃ flower like particles prepared by a simple one-pot polyol method
161	TS02	P1702_0346	Poster	SooJin Lee	Hanyang University	Theoretical and experimental comparison of functional group number at different magnetic cored dendrimer generations
162	TS02	P1702_0353	Poster	Keyru Serbara Bejigo	Gachon University	Synthesis and characterization of manganese ferrite (M _x Fe _{3-x} O ₄) decorated graphene aerogel for oxygen reduction reaction
163	TS02	P1702_0357	Poster	Bora Ye	Korea Institute of Industrial Technology (KITECH)	Advanced photocatalytic degradation of air pollutants by using TiO ₂ -graphene composite photocatalyst
164	TS02	P1702_0360	Poster	Hong Seok Lee	Chonbuk National University	Enhancement of optical properties in asymmetric CdTe/ZnTe double quantum dots on Si substrates
165	TS02	P1702_0361	Poster	Seung Hoon Baek	Chung-Ang University	Modification of a facile hydrothermal method for upconversion enhancement of NaYF ₄ : Yb ³⁺ /Er ³⁺ , UCNPs and exploring the hidden dimensions
166	TS02	P1702_0363	Poster	Jong Won Choi	Sungkyunkwan University	Effect of Annealing Temperature on Electrical Property of Hydrothermally-Grown ZnO Nanorod/p-Si Heterojunction diodes

167	TS02	P1702_0364	Poster	Seok Hwan Jeong	School of Advanced Materials Science and Engineering, Sungkyunkwan University	Mass-fabrication of nanoporous anodic aluminum oxide: simultaneous multi-surfaces anodization and direct detachment through stair-like reverse biases
168	TS02	P1702_0367	Poster	WonTae Kang	Sungkyunkwan University	Direct Growth of p-Doped WSe ₂ Monolayer by Selenium-Phosphorus substitution
169	TS02	P1702_0369	Poster	Su Guan Jang	Department of Chemistry, Keimyung University	Enhanced Photocatalytic degradation of methylene blue over CuO/TiO ₂ composite hollow spheres under visible light irradiation
170	TS02	P1702_0370	Poster	Huidong Qian	Korea Institute of Materials Science	Phase transformations in rare earth element free magnet of Mn-Al powders prepared by gas atomization
171	TS02	P1702_0375	Poster	Jae Young Lee	Keimyong University	Analysis of CO ₂ Adsorption Characteristics of Activated Carbon Loaded with Alkali and Alkaline Earth Metal
172	TS02	P1702_0376	Poster	Hyeon-Hye Kim	Korea Institute of Carbon Convergence Technology	Preparation and characterization of zinc oxide-copper (ZnO-Cu) nanoparticles reinforced-thermoplastic composites for antimicrobial behavior
173	TS02	P1702_0377	Poster	Byeongjun Yoo	Institute for Basic Science (IBS)	Multi-dye-sensitized Upconverting Nanoparticles for Photo-triggered Destructible Ultrathin Memory Devices
174	TS02	P1702_0382	Poster	Byung-Sang Choi	Chosun University	Fabrication and characterization of 3D graphite or graphene reinforced Cu composite
175	TS02	P1702_0386	Poster	Bo-Kyung Choi	Inha University	One-pot synthesis of Ag-doped TiO ₂ /GO composites for removal of metal-ion
176	TS02	P1702_0395	Poster	Seulki Kang	Ewha Womans University	Self-Assembly of Amphiphilic Polymers and Magnetic Nanoparticles
177	TS02	P1702_0396	Poster	Xiaole Hu	Ewha Womans University	Synthesis and Properties of DNA-grafted Poly(acrylic acid)
178	TS02	P1702_0398	Poster	Sunghee Lee	Ewha Womans University	Raspberry like Metamolecules

179	TS02	P1702_0410	Poster	Chongmin Lee	University of Science & Technology (UST)	Fabrication of magnetite and hematite nanoparticles anchored on crumpled graphene for supercapacitors
180	TS02	P1702_0411	Poster	Chang Kee Lee	Korea Institute of Industrial Technology (KITECH)	Morphological study of nanocomposite mats based on DNA wrapped CNT nano-wire with PEDOT:PSS relating to its conductivity
181	TS02	P1702_0417	Poster	Bin Shao	Chongqing University of Science & Technology	Effect of Cation addition on the Microstructure and Magnetic Properties of Nickel Nanocomposites Prepared by Hydrothermal Method
182	TS02	P1702_0418	Poster	Bui Thi Phuong Quynh	Nguyen Tat Thanh University	Magnetic NiFe ₂ O ₄ decorated exfoliated graphite as an efficient sorbent for removal of oils and organic pollutants
183	TS02	P1702_0421	Poster	Ri Yu	Korea Institute of Ceramic Engineering and Technology (KICET)	Physical Characterization of Core/Yolk shell α -Fe ₂ O ₃ nano capsules
184	TS02	P1702_0424	Poster	Sung-Chan Jang	Korea Atomic Energy Research Institute (KAERI)	Porous structured potassium ferric hexacyanoferrate-alginate/clay hydrogel for selective and rapid cesium adsorption
185	TS02	P1702_0425	Poster	Jo HyunJun	Dongguk University	Synthesis of Zinc Oxide and Organic Materials Generates Nanoparticles and Confirms UV Blocking Effect
186	TS02	P1702_0428	Poster	Nguyen Huu Vinh	Nguyen Tat Thanh University	Preparation and characterization new nanostructure Ti _{0.7} Ir _{0.3} O ₂ via low temperature hydrothermal process
187	TS02	P1702_0429	Poster	Tran Van Thuan	Nguyen Tat Thanh University	Advanced nanostructure Ti _{0.7} W _{0.3} O ₂ prepared via low temperature hydrothermal process and sol-gel process
188	TS02	P1702_0430	Poster	Dinh Thi Thanh Tam	Nguyen Tat Thanh University	Core-shell Fe@SiO ₂ nanoparticles synthesized via modified Stober method for high activity in Cr (VI) reduction

189	TS02	P1702_0431	Poster	Tran Duong Thien Loc	Nguyen Tat Thanh University	SYNTHESIS AND CHARACTERIZATION OF ADVANCED NANOMATERIAL TIN DOPED INDIUM OXIDE (ITO) AND Pt/ITO NANOCATALYSTS VIA NONAQUEOUS SOL-GEL METHOD
190	TS02	P1702_0432	Poster	Tran Duong Thien Loc	Nguyen Tat Thanh University	Nanostructured Ti _{0.7} Mo _{0.7} O ₂ as Efficient Non-carbon Support for PtRu Catalysts in Direct Methanol Fuel Cells
191	TS02	P1702_0433	Poster	Soobin Park	Kyonggi University	Effect of TiO ₂ addition on nano crystallization behavior of diopside-based glass-ceramics
192	TS02	P1702_0440	Poster	Dayoung Lee	Kyonggi University	Thermal properties for sintering condition and addition of ZrO ₂ in CMS glass-ceramics
193	TS02	P1702_0451	Poster	cheong soo hwang	Dankook University	Detection of Copper (II) ions using the L-glycine Capped ZnS:Mn Nanocrystals in Aqueous Solution
194	TS02	P1702_0483	Poster	Ki Won Gyak	Pohang University of Science and Technology (POSTECH)	3D Printed SiCN Ceramic Microreactor System from Photo-Curably Modified Pre-ceramic Resin
195	TS02	P1702_0489	Poster	Keuk-Min Jeong	Pusan National University	Effect of Graphene Oxide Content on the Tensile Properties and Swelling Ratio of Chitosan/Xanthan Gum/Graphen Oxide Hydrogel Films
196	TS02	P1702_0491	Poster	Eun Wook Jeong	Korea Institute of Materials Science (KIMS)	Reduced yellowing of silver nanowire transparent conductive electrodes by simple hydrazine treatment
197	TS02	P1702_0492	Poster	Hong Yeol Park	Pusan National University	Ti-mesh based triboelectric nanogenerators for a liquid flow energy harvesting
198	TS02	P1702_0495	Poster	Sorapong Pavasupree	Rajamangala University of Technology Thanyaburi	Preparation of Nanotubes from Thai Ilmenite Mineral by Hydrothermal Method and Their Photocatalytic Activity
199	TS02	P1702_0505	Poster	Ji-Hoon Lee	Korea Institute of Materials Science (KIMS)	Reversibly deformable all-carbon-based large-area electrochemical capacitors
200	TS02	P1702_0519	Poster	Sung-Myung Ryu	Hannam University	Adsorption and optical properties of methylene blue dye on WO ₃ nanorods

201	TS02	P1702_0534	Poster	Ho Sang Jung	Korea Institute of Materials Science (KIMS)	Graphene Surface modification on Titanium for accelerated bone tissue regeneration
202	TS02	P1702_0545	Poster	Seunghyeon Baek	Pohang University of Science and Technology (POSTECH)	Hierarchical structure with highly durable non-wetting properties in dynamic and underwater conditions
203	TS02	P1702_0549	Poster	Kim Tae woo	Pusan National University	Gore-Tex based wearable triboelectric nanogenerators
204	TS02	P1702_0550	Poster	Yu Hyeon Jeong	Korea University	Topological gap states of a rectangular armchair ribbon in a staggered potential
205	TS02	P1702_0555	Poster	Intae Son	Myongji University	Fast-switching liquid crystal device fabricated by photopolymerization of nanoscale self-assembled alignment layer of trifunctional reactive amphiphiles
206	TS02	P1702_0556	Poster	Soon Hee Park	Korea University	Extra High Hydrothermal Stability and Activity of Selective Catalytic Reduction over Cation Exchanged High Silica CHA
207	TS02	P1702_0563	Poster	Yong-Jae Kim	Korea Advanced Institute of Science and Technology (KAIST)	Single step fabrication of thin film composed of self-assembled P3HT nanowires on water substrate
208	TS02	P1702_0571	Poster	Chunho Kim	Myongji University	Fabrication of vertically aligned liquid crystal devices using nanoscale self-assembled alignment layers of photoluminescent pyrene derivatives
209	TS02	P1702_0572	Poster	Ji Yong Yoo	Myongji University	Preparation and characterization of UV/Heat dual-curable adhesives for liquid crystal device using reactive core-shell nanoparticles
210	TS02	P1702_0578	Poster	Jae-Seok Yu	Seoul National University	DNA translocation through a nanopore in self-assembly peptide membrane
211	TS02	P1702_0589	Poster	Byoung-Joon Kim	Andong National University	Evaluation of mechanical reliability of metal interconnect on flexible substrate and international standardization

212	TS02	P1702_0591	Poster	Yujun Lee	Korea Atomic Energy Research Institute (KAERI), Hanyang University	Surface Hydrophobization of Cellulose Nanocrystal by Electron Beam Irradiation
213	TS02	P1702_0624	Poster	Seunghun Lee	Korea Institute of Materials Science (KIMS)	Self-Organized Nanostructures on Polymers by means of Ion Beam Irradiation
214	TS02	P1702_0626	Poster	Sunghoon Jung	Korea Institute of Materials Science (KIMS)	Enhanced outcoupling efficiency of organic light emitting diodes with textured polymer substrate
215	TS02	P1702_0631	Poster	Doocho Choi	Dong-eui University	Potential of Tungsten as Next-generation Semiconductor Interconnects
216	TS02	P1702_0637	Poster	Wan-Tae Kim	Gangneung-Wonju National University	Effect of Ti crystal orientation on formation of TiO ₂ nanotube arrays in anodic oxidation process
217	TS02	P1702_0638	Poster	Kyeong-Han Na	Gangneung-Wonju National University	Fabrication of the magnetic ferrite nanofibers by electrospinning process
218	TS02	P1702_0647	Poster	Hyeong Jin Kim	Chosun University	Surface modification of zirconia substrate by room temperature spray coating
219	TS02	P1702_0649	Poster	Dae Sung Kim	Chosun University	Effect of slurry viscosity on the sintered property in 3Y-TZP ceramics prepared by slip casting
220	TS02	P1702_0652	Poster	Ji Hoon Lee	Korea Advanced Institute of Science and Technology (KAIST)	Combined CO ₂ -philicity and Ordered Mesoporosity for Highly Selective CO ₂ Capture at High Temperatures
221	TS02	P1702_0690	Poster	Hyeongdo Jeong	Chosun University	Effect of dispersion agent on the synthesis of nano-sized 3Y-TZP powder by the homogeneous precipitation
222	TS02	P1702_0693	Poster	Tran Anh Vy	Gachon University	Core-shell mesoporous silica nanostructures of Fe ₃ O ₄ @MSNs@PEG@Gold as controlled drug release and bio-imaging agents for cancer therapy
223	TS02	P1702_0708	Poster	Min Ui Park	University of Suwon	Fabrication Process of Bilayer Graphene/PEDOT:PSS nanocomposite for transparent conductive electrode.

224	TS02	P1702_0713	Poster	Minho Kim	Seoul National University	Dealloying-based facile synthesis and highly catalytic properties of Au core/porous shell nanoparticles
225	TS02	P1702_0720	Poster	Seongwoo Ryu	The University of Suwon	Fabrication of Extremely Elastic Wearable Strain Sensor Using Aligned Carbon Nanotube Fibers for Monitoring Human Motion
226	TS02	P1702_0730	Poster	Yeong-Ho Cho	Seoul National University	The effect of bilayer period of atomic layer deposition on the microstructure, crystallinity and electrical properties of In-Zn-O films
227	TS02	P1702_0736	Poster	Il Song Lee	Korea Atomic Energy Research Institute (KAERI) / Inha University	Internal decorporation agents based on Prussian blue caged with cellulose for the removal of cesium ions from gastrointestinal tract
228	TS02	P1702_0748	Poster	Soo Hyun Park	Gachon University	Facile synthesis of cubic hematite with gold layer and its photocatalytic activity
229	TS02	P1702_0753	Poster	Sangin Kim	NAIEEL Technology	Mass production engineering for Boron Nitride Nanotubes (BNNT)
230	TS02	P1702_0758	Poster	Young Ryul Kim	Naieel technology	Highly efficient thermal conducting materials based on boron nitride nanotubes (BNNTs)
231	TS02	P1702_0761	Poster	Jungmo Kim	Korea Advanced Institute of Science and Technology (KAIST)	Effective Strategy for Exfoliation of High quality Graphene Flakes From Ternary Graphite Intercalation Compound
232	TS02	P1702_0765	Poster	Yeon Ju Lee	Korea Institute of Science and Technology (KIST)	Titanium Dioxide (TiO ₂) with Intrinsic Violet-Blue Emission Centers-Graphene Nanocomposites for Highly Enhancing Photoactivity under Visible Light
233	TS02	P1702_0774	Poster	Jong-Ho Moon	Korea Institute of Energy Research (KIER)	Preparation of nanoporous CuY zeolite catalysts via ultrasonication and microwave treatments for DMC synthesis
234	TS02	P1702_0806	Poster	Jung Yoon Seo	Korea Institute of Energy Research (KIER)	Copper nanoparticles encapsulated in mesoporous metal oxide microspheres for catalytic application

235	TS02	P1702_0817	Poster	Kulwinder Singh	Sri Guru Granth Sahib World University	Effect of F-doping on structural, morphological, optical and electrical properties of NiO nanostructures
236	TS02	P1702_0827	Poster	Sun Young Choi	Korea Institute of Materials Science	Effect of Nb atoms on chemical sensing property of MoSe ₂ layered nanomaterials
237	TS02	P1702_0843	Poster	Junghoon Oh	Inha University	Production of two-dimensional oxidized carbon nitride for cell-imaging application
238	TS02	P1702_0850	Poster	Joung-Hyun La	Korea Aerospace University	The morphological evolution of zinc oxide nanocrystals via plasma discharge process in solution
239	TS02	P1702_0851	Poster	Ji Hye Park	Kyungpook National University	Template-free electrochemical deposition of metal nanoparticles
240	TS02	P1702_0852	Poster	Ho Sun Shin	Korea Research Institute of Standards & Science (KRISS)	Photo-induced thermoelectric properties of InAs nanowires
241	TS02	P1702_0858	Poster	Wonjin Jo	Korea Institute of Science and Technology (KIST)	3D printed hierarchical structures functionalized with TiO ₂ nanoparticles: Photo-induced reaction
242	TS02	P1702_0868	Poster	Sun Mi Yoon	Korea Institute of Science and Technology	Nanostructured Polycarbonate for Robust Transparency and Anti-fogging by Control of Self-masking Metallic Clusters
243	TS02	P1702_0869	Poster	Sun Mi Yoon	Korea Institute of Science and Technology	Oil-water separation with long-lasting superhydrophilic AlOOH-TiO ₂ flake-particle flower like structure
244	TS02	P1702_0873	Poster	Manish Kumar	Pohang University of Science and Technology (POSTECH)	Structure and functionalities of manganite/cuprate thin film
245	TS02	P1702_0877	Poster	Yunseok Shin	Inha University	N-doped graphene oxide anchored with [Co(acac) ₂] as electrocatalyst for oxygen reduction reactions
246	TS02	P1702_0878	Poster	SAEROM OHN	Inha University	Synthesis and activities of heterogeneous electrocatalyst for high-performance fuel cells and metal-air batteries

247	TS02	P1702_0879	Poster	Sunghee Park	Inha University	The Metal-Free Photocatalyst composed of Graphite Oxide and Oxidized Carbon Nitride nanodots: Their Enhanced Performances and production
248	TS02	P1702_0880	Poster	Dawoon Jang	Inha University	The Electrocatalytic Effect of KOH on the Oxygen Reduction Reaction and Chemical Structure of Chemical Modified Reduced Graphene Oxide Materials.
249	TS02	P1702_0881	Poster	Dong-gyu Lim	Inha University	The Chemical environments and the electrocatalytic performance of N-doped reduced graphene oxides using a solution process with ammonium hydroxide and thermal treatment
250	TS02	P1702_0882	Poster	Gilsoo Park	Inha University	The Novel production of FeOOH/reduced graphene oxide hybrids and their enhanced performance for oxygen reduction reaction
251	TS02	P1702_0885	Poster	Eunil Hahm	Konkuk University	Dimeric β -CD immobilized Ag Assembled Silica Nanoparticles to Sensitive Detect for Polycyclic Aromatic Hydrocarbons
252	TS02	P1702_0890	Poster	Bohyun Kang	Ewha Womans University	Fine-tuning of Bond Covalency and Manganese Valency as an Efficient Way of Improving Electrocatalytic Activity of Manganese Oxides
253	TS02	P1702_0891	Poster	Xiaoyan Jin	Ewha Womans University	Remarkable improvement of the electrocatalyst functionality of graphene upon the incorporation of exfoliated metal oxide 2D nanosheet
254	TS02	P1702_0895	Poster	Hannah Kwon	Ewha Womans University	Enhanced Visible Light Active Photocatalytic Activity of Carbonized TiO ₂
255	TS02	P1702_0897	Poster	Phornsawat Baipaywad	Chung-Ang University	Facile preparation of monodisperse functional poly(dimethylsiloxane) nanoparticles
256	TS02	P1702_0913	Poster	Hyeji Lee	Gwangju Institute of Science and Technology (GIST)	Raman analysis of the doping induced by a metal overlayer on a graphene

257	TS02	P1702_0914	Poster	Kootak HONG	Seoul National University	Inhibition of Ion Migration for Reliable Operation of Hybrid Perovskite-Based Metal/Semiconductor/Metal Broadband Photodetectors
258	TS02	P1702_0919	Poster	Yoo Been Lee	Sookmyung Womens University	Layer Control of WS ₂ Films via Sulfurization of W Film Deposited by Atomic Layer Deposition
259	TS02	P1702_0926	Poster	Seung Jun Yang	University of Seoul	Surface strain analysis on buckled MoSe ₂ thin films grown by molecular beam epitaxy
260	TS02	P1702_0936	Poster	Eunji Kang	Konkuk University	Flavonoid detection based SERS using Ethylenediamine- β -Cyclodextrin as a capturing ligand
261	TS02	P1702_0954	Poster	Kyungnae Baek	Ewha Womans University	Using polydisperse, near micron-sized TiO ₂ particles for color generation and optical index determination of homogeneous media
262	TS02	P1702_0960	Poster	Hyung-Mo Kim	Konkuk University	Multifunctional SERS Nanoprobe containing Unique Property of Magnetic-Fluorescence for Bio Applications
263	TS02	P1702_0964	Poster	Yuna Ha	Konkuk University	Scaling-up synthetic method of multiple surface-enhanced Raman scattering labeled nanoprobes with high reproducibility and long-term stability
264	TS02	P1702_0966	Poster	Jiseong Jang	Hanbat National University	Improvement electrical conductivity and morphology of silver nanowire transparent electrode by electrodeposition
265	TS02	P1702_0968	Poster	Gyuri Kim	Sookmyung Womens University	Fabrication of Patterned Polymer Nanopillar Arrays by Nanoimprint Lithography
266	TS02	P1702_0970	Poster	Jiwon Jeong	Dankook University	Injection molding of metal-like composites uncorporated with Al powders
267	TS02	P1702_0974	Poster	Hyeon Kyeong Kim	Dankook University	In-mold coating and ion beam irradiation of injection-molded parts
268	TS02	P1702_0977	Poster	Hyeonjee Jo	Sejong University	Synthesis of Highly Crystalline Carbon Nanotubes by Electric Arc Discharge and Their Field Emission Characteristics

269	TS02	P1702_0978	Poster	현예섭	Sejong University	Gas-phase Purification for Metal-free Multi-walled Carbon Nanotubes and Characterization of Their Surface Properties
270	TS02	P1702_0982	Poster	Sungsu Kim	Department of Nanoscience & Engineering, Inje University	Effects of precursor concentrations on the structural, optical, and ultraviolet photoresponse properties of ZnO nanorods grown by hydrothermal method
271	TS02	P1702_0983	Poster	Dohyub Jang	Korea Institute of Science and Technology (KIST)	Anion-assisted photoluminescence enhancement from iron oxide nanocrystals
272	TS02	P1702_0985	Poster	Euije Jo	Department of Nanoscience & Engineering	The effect of pH on the morphological and optical properties of ZnO nanorods grown by using hydrothermal methods
273	TS02	P1702_0991	Poster	Jae-Young Oh	Department of Materials Science and Engineering, Hanbat National University	Preparation and characterization of chemical bath deposited zinc oxide transparent electrode
274	TS02	P1702_0992	Poster	Yongse Kim	Sejong University	Thermally conductive but electrically insulating polymer composites using graphite nanoplatelets coated with silica nanoparticles
275	TS02	P1702_1010	Poster	Jeong Won Ko	Sahmyook University	Synthesis of Gold Bipyrmaid Nanoparticle-[C60]Fullerene Nanowhisiker Composites and Reduction of 4-Nitrophenol
276	TS02	P1702_1032	Poster	Se Min Chun	National Fusion Research Institute	Surface modification of coarse ceramic powders by a microwave plasma torch: Their mobility improvement and densification.
277	TS02	P1702_1050	Poster	Aya Inada	Fukushima University	Modification of Chemically Stable Polymeric Materials 92.Improvement of the water-based paint coating property of PE, PP, PEEK, silicone and fluorocarbon resins and the increase of the adhesion property of polymeric materials
278	TS03	P1703_0013	Poster	Zhao Yao	Kwangwoon University	Ultra-smooth nano-scale BaTiO3 thin films by aerosol deposition method for high-k capacitor application

279	TS03	P1703_0087	Poster	Sangmin An	Seoul National University	Nanoscale scratching using a pulled nanorod-combined atomic force microscope system
280	TS03	P1703_0088	Poster	Gyu Tae Jeon	KOREATECH	The effect of secondary phases is nano-size on shrinkage initiation temperature and shrinkage strength of Al 6061 alloy
281	TS03	P1703_0101	Poster	Sang Chul Lim	Innovation & Technology Research Division, 3D Display Technology Research Center, Gumi Electronics a	Detection characteristics of biosensor circuits based on p-type CNTs thin-film transistors
282	TS03	P1703_0103	Poster	Vu Thi Kim Oanh	Hanyang University	Band offset and defect states of InP/InGaAs/InP heterostructures by current-voltage characteristics and deep level transient spectroscopy
283	TS03	P1703_0206	Poster	Shinae Hwang	Hallym University	Microscale silicon membranes with highly ordered pyramidal structures for the filter element
284	TS03	P1703_0214	Poster	Kittiya Plermjai	King Mongkut's Institute of Technology Ladkrabang	Effect of annealing temperature and time under nitrogen ambient on structure and optical properties of sol-gel base vanadium oxide thin films
285	TS03	P1703_0217	Poster	Soongeun Kwon	Korea Institute of Machinery and Materials (KIMM)	Direct laser ablation of highly conductive reduced graphene oxide for in-plane microsupercapacitors
286	TS03	P1703_0237	Poster	Woong-Ki Choi	Korea Institute of Carbon Convergence Technology (KCTECH)	Effect of Improving Interfacial Bonding Strength of Carbon Fibers and NBR on Residual Stress and Mechanical Properties of Carbon Fibers/NBR Composites
287	TS03	P1703_0241	Poster	Dongjo Seo	Inha University	Crack-free hard chromium plating using pulse-reverse electroplating method on the brass substrate
288	TS03	P1703_0279	Poster	Dongha Tahk	Seoul National University	Single Cell Trapping and Analysis with Fast and Large Area Fabrication of Through-hole Membrane by Novel Microfluidic Chip System

289	TS03	P1703_0291	Poster	Jihoon Lee	KOREATECH	Analysis of meniscus deformation during Nano Imprint Lithography
290	TS03	P1703_0297	Poster	Eun-Wook Jeong	Korea Institute of Materials Science	Control of wetting characteristics on flexible substrate for fabrication of fine metal electrode
291	TS03	P1703_0326	Poster	Seon Hee Kim	Korea Institute of Science and Technology (KIST)	New analytical method of soft contact lenses using surface analysis technique
292	TS03	P1703_0328	Poster	Kim young-tae	National NanoFab Center (NNFC)	Control of specific surface area of carbon nanofibers prepared by electrospinning
293	TS03	P1703_0349	Poster	Eun Mi Kim	Korea Institute of Industrial Technology (KITECH)	Effect on Electro-optical Properties Depending on Substrate Temperature of NiInZnO Thin Films Prepared by RF Magnetron Sputtering.
294	TS03	P1703_0351	Poster	Geuntae Yun	Korea Advanced Institute of Science and Technology (KAIST)	Dual-scale omniphobic surface with high stability inspired by springtail
295	TS03	P1703_0362	Poster	Yun Chang Park	National Nonofabrication Center (NNFC)	Atomic Configuration Analysis and Single Atoms Imaging by Scanning Transmission Electron Microscopy
296	TS03	P1703_0373	Poster	Kejian Li	Chongqing University of Science & Technology	Effect of Plastic Deformation on the Microstructure and Magnetic Properties of 347 Stainless Steel
297	TS03	P1703_0378	Poster	Hyo In Lee	Inha University	The one-pot synthesis of reduced graphene oxide/anatase titanium dioxide composites for photocatalytic degradation of methylene blue
298	TS03	P1703_0381	Poster	Donglin Guo	Chongqing University of Science & Technology	The effect of Magnetic Interface Coupling on Magnetic Property of CdS Nanomaterial
299	TS03	P1703_0391	Poster	Jin Woo Huh	National Nanofab Center	New approach for fabricating hybrid-structured metal mesh films for flexible transparent electrodes
300	TS03	P1703_0416	Poster	Min-Joo Kang	Inha University	Influence of surface-treated silica for thermal stability and mechanical properties in silicone matrix composites

301	TS03	P1703_0419	Poster	Chunhong Li	Chongqing University of Science & Technology	Effect of heat treatment and grinding on the MnBi magnetic materials
302	TS03	P1703_0439	Poster	sang-kon kim	Hongik University	Line-Edge Roughness of 5-nm Pattern in EUV Interference Lithography using Stochastic Simulation
303	TS03	P1703_0442	Poster	Yeon Bin Choi	Changwon National University	Synthesis and Characterization of Nano-scale Potassium Titanate Whiskers by Thermal Assisted Reaction
304	TS03	P1703_0449	Poster	Yilong Zhang	Chongqing University of Science and Technology	Effect of Heat Treatment on the Microstructure and Corrosion Resistance of 13Cr Martensitic Stainless Steel
305	TS03	P1703_0467	Poster	Dong-Hyeon Ko	Pohang University of Science and Technology (POSTECH)	Continuous-Flow Synthesis of Drug Compounds with Flue Gas CO ₂ Capture in Superomniphobic-Nanostructure-Embedded Microsystems
306	TS03	P1703_0475	Poster	Xinghao Hu	Daegu Gyeongbuk Institute of Science & Technology (DGIST)	An on-chip micromagnet frictionometer based on magnetically driven colloids for nano-bio interface
307	TS03	P1703_0477	Poster	Seunghyun Moon	Seoul National University	Optimal frequency detection for force gradient measurement of electrostatic force microscopy
308	TS03	P1703_0480	Poster	Van Vuong Hoang	Chungnam National University	Strain measurement in InGaN/GaN multi-quantum wells using dark-field electron holography
309	TS03	P1703_0493	Poster	Jung-Dae Kwon	Korea Institute of Materials Science	Atomic layer deposited p-type copper oxide thin films and the associated thin film transistor properties
310	TS03	P1703_0494	Poster	Seong Gwon Jeon	Korea Institute of Materials Science	Durable antireflective polymer with nanoparticle array fabricated by plasma-enhanced chemical vapor deposition system
311	TS03	P1703_0497	Poster	Byong Sun Chun	Korea Research Institute of Standards and Science	Magnetic and structural properties of Fe ₃ O ₄ multi-granule nanoclusters

312	TS03	P1703_0539	Poster	Zhi-Jun Zhao	Korea Institute of Machinery and Materials (KIMM)	Effects of Morphology and Properties of Silver Nanowires Fabricated via Nanoimprint and E-beam Evaporation
313	TS03	P1703_0561	Poster	Eun-Hwan Jang	Korea Institute of Machinery and Materials (KIMM)	Scalable Thickness of Quantum-dots Layer on Si Photodiodes for UV Detection
314	TS03	P1703_0566	Poster	Hyun Jeong	Korea Institute of Machinery and Materials	Optical and electrical characterization of vertical heterostructure based on two-dimensional nanomaterials for photo-electric applications
315	TS03	P1703_0570	Poster	ki joong lee	Korea Research Institute of Bioscience and Biotechnology (KRIBB)	Fabrication of metal nano-structures using reverse nanoimprint lithography
316	TS03	P1703_0575	Poster	Juhee Ko	Sogang University	Hydrogel tip attached quartz tuning fork by using a mold fabricated from an electrochemically etched tungsten wire
317	TS03	P1703_0580	Poster	Young Joong Choi	Korea Institute of Ceramic Engineering & Technology (KICET)	Hierarchical nanoscale multi-material arrays for resistive switching memory devices
318	TS03	P1703_0592	Poster	Boyeon Hwang	Korea University	Fabrication of Flexible Plasmonic Color Filter for Large-area using Nanotransfer Printing Process
319	TS03	P1703_0593	Poster	SoonHyung Hwang	Seoul National University	Fabrication of Metasurfaces by One-Step Nano Transfer Process
320	TS03	P1703_0618	Poster	Sejong Seong	Hanyang University	Wide thermal annealing effects on ITO thin films
321	TS03	P1703_0629	Poster	Sohee Cheon	Korea Institute of Machinery and Materials (KIMM)	Transfer printed template-assisted fabrication of vertically aligned ZnO nanorods
322	TS03	P1703_0680	Poster	YunWoo Lee	University of Science & Technology (UST)	Fabrication and characterization of dissolving microneedles made of novel biomaterial
323	TS03	P1703_0681	Poster	SangHo Shin	Korea University	Transparent Display Using Nanopatterned Quantum Dot Film
324	TS03	P1703_0703	Poster	Minseok Seo	Yonsei University	Nano-patterning of stainless steel surface for plasmonic coloration

325	TS03	P1703_0721	Poster	Daekyeong Jung	University of Science & Technology (UST)	Selective μ -LED Transfer by Laser Scanning System with a Flexible Curved Stamp
326	TS03	P1703_0722	Poster	Harim Oh	Yonsei University	Fabrication of invisible Ag nanowire electrode patterns for transparent devices
327	TS03	P1703_0725	Poster	Ki Sang Yoo	Korea Institute of Machinery and Materials (KIMM)	Enhancement of physical properties of polarizing films by embedding cellulose nanocrystals and cellulose nanofibrils
328	TS03	P1703_0742	Poster	Sejeong Won	Korea Institute of Machinery & Materials (KIMM)	Fabrication of submicron-scale graphene ribbons using crack lithography
329	TS03	P1703_0752	Poster	Hoang Tung Nguyen	Kyung Hee University	Temperature dependence of the dielectric response and critical point energies of Bi _{1.85} Gd _{0.15} Te ₃
330	TS03	P1703_0754	Poster	Taeyeon Kim	Pusan National University	Patterning nanostructures with plasmonic field at different z-axis position
331	TS03	P1703_0795	Poster	Houyu Ma	Changwon National University	Effect of shot peening on oxidation behavior of S304H steel
332	TS03	P1703_0796	Poster	Liming Xu	Changwon National University	Effect of Ultrasonic Shot Peening on the microstructural evolution of pure Al
333	TS03	P1703_0797	Poster	Sijia Liu	Changwon National University	Effect of ultrasonic shot peening on microstructure and phase transformation of duplex stainless steel S32750
334	TS03	P1703_0799	Poster	Yubing Zhang	Changwon National University	Effect of shot peening on microstructural evolution of 500-7 ductile cast iron
335	TS03	P1703_0803	Poster	Kyeongae Nam	Changwon National University	Microstructural evolution of Super304H due to shot peening and post-annealing
336	TS03	P1703_0830	Poster	Saeromi Kim	Korea Institute of Science and Technology (KIST)	PERIODIC NANO-TEXTURED PATTERNS ON POLY(HEMA) BY FEMTOSECOND LASER ABLATION TO REGULATE CELL BEHAVIORS
337	TS03	P1703_0839	Poster	Moonjeong Bok	Korea Institute of Machinery and Materials (KIMM)	Evaluation of charge behavior of organic semiconductor devices with nanopatterns
338	TS03	P1703_0845	Poster	U Hyeok Choi	Pukyong National University	Investigation of inter-nanowire spacing in the nanowire array by the electric field-assisted assembly

339	TS03	P1703_0846	Poster	U Hyeok Choi	Pukyong National University	Precise placement of metallic nanowires on a substrate by electric fields
340	TS03	P1703_0848	Poster	Young Woong Kim	Hanyang University	Improved inspection stability of coherent scattering microscopy
341	TS03	P1703_0876	Poster	Inki Kim	Pohang University of Science and Technology (POSTECH)	Large-scale fabrication of multilayer dielectric gratings for multiple fiber laser beams combining
342	TS03	P1703_0900	Poster	Mallikarjuna Reddy Kesama	Sungkyunkwan University	Optoelectronic and magnetic properties of Mn ²⁺ -modified DNA thin films
343	TS03	P1703_0906	Poster	Jaehyuck Jang	Pohang University of Science and Technology (POSTECH)	Cross-shaped aluminum nanorod arrays for wide-gamut and tunable plasmonic color filters
344	TS03	P1703_0908	Poster	Jeong Ho Ryu	Korea National University of Transportation	Single Crystal Growth of Superalloys For Gas Turbine Blade
345	TS03	P1703_0910	Poster	Sanghyun Yoo	Sungkyunkwan University	Mechanical characteristics of pristine and functionalized free-standing DNA thin films
346	TS03	P1703_0918	Poster	Junghwan Kim	Hanyang University	New concept of EUV mask protection from contamination : Shielded Reticle Mini Environment
347	TS03	P1703_0927	Poster	Jaehong Yoon	Incheon National University	Powder Coating with Ru and RuO ₂ by Atomic Layer Deposition
348	TS03	P1703_0932	Poster	Hyun Gu Kim	Incheon National University	Lamination of Metal Oxides to Control Color of Electronic Textiles by Atomic Layer Deposition
349	TS03	P1703_0955	Poster	Yong Ju Jang	Hanyang University	Mechanical and optical properties of graphene composite EUV pellicle
350	TS03	P1703_0958	Poster	Jung Sik Kim	Hanyang University	Using platinum for absorber stack of attenuated phase shift mask in high-numerical aperture EUVL
351	TS03	P1703_0961	Poster	Dong Gon Woo	Hanyang University	Development of EUV actinic inspection technique: EUV Scanning Lensless Imaging (ESLI)

352	TS03	P1703_0975	Poster	Sungjin An	Dankook University	Study of self-powered Organic Field Effect Transistor with Microbial Battery on carbon nanomaterial
353	TS03	P1703_0984	Poster	Je Kang	Sungkyunkwan University	Fabrication and electrical measurements of reduced graphene oxide papers
354	TS03	P1703_1001	Poster	Joongeok Kim	Yonsei University	Design and fabrication of label free guided mode resonance(GMR) protein sensor with nanograting structure
355	TS03	P1703_1004	Poster	Do Kyung Lee	Catholic University of Daegu	Wet chemical spray etching of Cu layer for the finer pitch chip-on-film packages applications
356	TS03	P1703_1009	Poster	Deok Rok Hwang	Catholic University of Daegu	Effects of SiO ₂ nano-coating on the surface of plasma electrolytic oxidation of magnesium alloy
357	TS03	P1703_1011	Poster	Seung Hang Shin	Changwon National University	Comparison of Surface Properties Due to Difference In Imprint Process of AAO
358	TS03	P1703_1013	Poster	Yeonho Jeong	Changwon National University	A Study on Change of Surface condition follows Various Surface Treatments
359	TS03	P1703_1014	Poster	Choi Hyun Min	Changwon National University	AAO template pattern Replication using various Resins
360	TS03	P1703_1015	Poster	Yong geun Kim	Koera University	Study on direct transfer characteristics of graphene using micro-contact printing
361	TS03	P1703_1018	Poster	Eun-chaee Jeon	Korea Institute of Machinery and Materials (KIMM)	Nanofabrication of brittle materials using single crystal diamond tool
362	TS03	P1703_1019	Poster	Naseem Abbas	Chung-Ang University	Fabrication of a vertical silicon nanostructure and porous top electrode using glancing angle deposition for gas sensor application
363	TS03	P1703_1031	Poster	Zhi-Jun Zhao	Korea Institute of Machinery and Materials (KIMM)	Multi-layers metallic nanostructure fabricated via nanoimprint lithography and heat-welding technology
364	TS03	P1703_1040	Poster	Han-Jung KIM	Center for Integrated Smart Sensors (CISS)	Nanofiber-based air filter for high-efficiency particulate matter capture
365	TS03	P1703_1042	Poster	Yun Hwangbo	Korea Institute of Machinery & Material	Polymeric Residue-Free Freestanding Graphene via Perforated Templates

366	TS03	P1703_1047	Poster	Joo-Yun Jung	Korea Institute of Machinery & Materials	Fabrication of the complementary plasmonic nanostructures as biosensors
367	TS03	P1703_1048	Poster	Jaeyeon Yu	Ulsan National Institute of Science and Technology (UNIST)	Active Nonlinear Metasurfaces for Broadband Second-Harmonic-Generation
368	TS03	P1703_1056	Poster	Chan Kim	Korea University of Science & Technology (UST)	Effect of Adhesive Thickness on Quality of Transferred Graphene
369	TS03	P1703_1057	Poster	Min-Ah Yoon	University of Science & Technology (UST)	Estimation of Surface Energy on CVD Graphene onto Substrates
370	TS03	P1703_1058	Poster	Yeon-Woo Jeong	University of Science & Technology (UST)	Adhesion Characteristics of the Solder Paste for LED Transfer Process
371	TS04	P1704_0002	Poster	Jaewon Kim	Sungkyunkwan University	Combined effects of anisotropic nanotopography and hypoxia on neural differentiation of human adipose tissue-derived stem cells (hATSCs)
372	TS04	P1704_0008	Poster	Min-Jae Lee	Catholic University of Daegu	Preparation and characterization of novel dental material with high shear bond strength
373	TS04	P1704_0018	Poster	Sungi Kim	Seoul National University	Optokinetically encoded nanoparticles for multiplexed miRNA detection strategy
374	TS04	P1704_0037	Poster	Jisun Ki	Yonsei University	Positive SERS Assay based Reverse Hairpin Beacon for Influenza Virus Detection
375	TS04	P1704_0050	Poster	Hyun-Ouk Kim	Yonsei University	A Host Cell Mimic Polymersome for Rapid Detection of Highly Pathogenic Influenza Virus via a Viral Fusion and Cell Entry Mechanism
376	TS04	P1704_0054	Poster	Byeonggeol Mun	Yonsei University	Efficient microRNA delivery system consisting of cholesterol-conjugated microRNA and pegylated polycationic polymer
377	TS04	P1704_0059	Poster	Byunghoon Kang	Yonsei University	Sorting various pluripotency of iPSCs via magnetization of nanoclusters in magnetophoresis devices
378	TS04	P1704_0071	Poster	Timur Sh. Atabaev	Seoul National University	Gadolinium oxide nanoparticles: a bimodal nanoprobe for T1-weighted magnetic resonance and optical imaging

379	TS04	P1704_0073	Poster	Eun-Jung Jo	Gwangju Institute of Science and Technology (GIST)	Single-step Luminescence Resonance Energy Transfer (LRET) Aptasensor for Rapid Mycotoxin Detection
380	TS04	P1704_0076	Poster	Jun Young Lee	Korea Atomic Energy Research Institute (KAERI)	Damage of nanoparticles and radiation stress on erythrocyte
381	TS04	P1704_0082	Poster	Swati V. Jadhav	a Convergence of IT Devices Institute, Dong-Eui University, Busan 47340, South Korea,	Polymer stabilized magnetic core shell nanoparticulates for magnetic fluid hyperthermia
382	TS04	P1704_0104	Poster	Yong Ju	Korea Advanced Institute of Science and Technology (KAIST)	Development of Novel RNA Isothermal Amplification Method That Is Based on NASBA controlled by Nicking Enzyme
383	TS04	P1704_0144	Poster	Seungmin Han	Yonsei University	Liposomal probes for monitoring endogenous microRNA during adipogenesis by exocytosis-mediated signal secretion, not by exosome
384	TS04	P1704_0151	Poster	Heekyeong Park	Sungkyunkwan University	A Flexible 2D MoS ₂ FET-based real-time detection biosensor for point-of-care monitoring
385	TS04	P1704_0154	Poster	Jun Ki Ahn	Korea Advanced Institute of Science and Technology (KAIST)	A new ATP detection method utilizing glucose oxide in glucose meter
386	TS04	P1704_0161	Poster	Hannah Pyo	Sungkyunkwan University	Facile Electrical Detection of Streptococcus pneumoniae through Nanoparticle Decoration Method
387	TS04	P1704_0190	Poster	Changyoon Baek	Chung-Ang University	The bacteria separation from soil sample using zinc oxide/graphene oxide coated micro beads
388	TS04	P1704_0194	Poster	Hyun Jin Yoo	Chung-Ang University	The short-length DNA separation from blood sample using graphene oxide coated micro beads
389	TS04	P1704_0198	Poster	Ji Heun Jeong	Konyang University	Protective effect of Poly lactic-co-glycolic acid (PLGA) Nanoparticles Loaded with Erythropoietin Stabilized by Sodium Cholate Hydrate in Focal Cerebral Ischemia Rat Model

390	TS04	P1704_0213	Poster	Ajay Kumar Yagati	Chung-Ang University	Label-free impedimetric sensor for the sensitive detection of Aflatoxin-B1 using polyaniline-Au nanoparticle hybrid based microdisk electrode arrays
391	TS04	P1704_0219	Poster	Yeonkyung Park	Korea Advanced Institute of Science and Technology (KAIST)	Colorimetric detection of miRNA by split G-quadruplex DNAzyme and toehold-mediated strand displacement circuit
392	TS04	P1704_0223	Poster	Jinyoung Kim	Yonsei University	Porous gold nanoparticle for facile attenuation of Influenza A virus
393	TS04	P1704_0233	Poster	kim yong han	Konyang University	Therapeutic efficacy of hydrogel-based oral disintegrating film loaded with metformin on high fat diet-associated cognitive decline
394	TS04	P1704_0234	Poster	An Jong Hun	Konyang University	Growth inhibition of glioma models in vitro and in vivo by controlled release of metformin from cholic acid-functionalized poly(lactic-co-glycolic) acid (PLGA) nanoparticles
395	TS04	P1704_0252	Poster	Tae Hyeon Kim	Sogang University	Computational analysis of the shear stress in microfluidic device
396	TS04	P1704_0266	Poster	GeonHui Lee	KU-KIST Graduate School of Converging Science and Technology	Networked concave microwell improves the functionality of 3D hepatocyte spheroids
397	TS04	P1704_0267	Poster	GeonHui Lee	KU-KIST Graduate School of Converging Science and Technology	Construction of micro-brain on surface modified concave microwell
398	TS04	P1704_0268	Poster	GeonHui Lee	KU-KIST Graduate School of Converging Science and Technology	Oxygen permeability controllable concave microwell for 3D spheroid culture for enhancing cell viability and functionality
399	TS04	P1704_0273	Poster	Chunghyun Lee	Gachon University	Label free simple detection of restriction endonuclease activity by using DNA-templated silver nanocluster
400	TS04	P1704_0276	Poster	Jong-Woon Ha	Pusan National University	Random copolymers with low surface energy composed of perfluorinated styrene for anti-biofouling

401	TS04	P1704_0285	Poster	Seonyoung Sim	Gachon University	Dexamethasone-carbon nanotube conjugates suppresses inflammation and oxidative stress of human arthritis synovial fibroblasts
402	TS04	P1704_0316	Poster	Jeonghyo Kim	Pusan National University	Facile fabrication of Au nanoparticle films onto diverse substrate for bioassay platforms
403	TS04	P1704_0334	Poster	Yunho Choi	Korea Advanced Institute of Science and Technology (KAIST)	Fabrication of 3D functionalized porous sponge for efficient isolation of foodborne pathogen
404	TS04	P1704_0337	Poster	Bhagwan S Batule	Gwangju Institute of Science and Technology	One step detection of food pathogens through nicking endonuclease-assisted strand displacement amplification
405	TS04	P1704_0338	Poster	Jun-Young Park	Gachon University	Anti-cancer efficacy of paclitaxel-carbon nanotube drug on small cell lung cancer
406	TS04	P1704_0339	Poster	Jong-Woo Lim	Yonsei University	Poly(amino Acid)/squalene nanocomplex (PA/S-NCs) as efficient vaccine adjuvants for enhancement of Immunogenicity
407	TS04	P1704_0355	Poster	Woo Seok Jinn	Yonsei University	Biomolecule Responsive Diffraction Grating Sensor Using Antibody Conjugated Hydrogel
408	TS04	P1704_0358	Poster	Shinyoung Kang	Korea Advanced Institute of Science and Technology (KAIST)	Simple Capture and Identification of Small-molecule binding Proteins using Magnetic Bead assisted Dual-Probe Oligo System
409	TS04	P1704_0388	Poster	Yonghyun Choi	Gachon University	Immuno-toxicity by Carbon nanotubes-protein corona interaction
410	TS04	P1704_0402	Poster	Sang-Woo Kim	Gachon University	Mitochondria membrane abruption and destroying non-small cell lung tumor cells using PEG coat carbon nanotube-ABT737 nanodrugs
411	TS04	P1704_0403	Poster	Moo-Kwang Shin	Yonsei University	Facile immobilization of His-tagged TEV proteases using spiky nickel silicate covered magnetic nanoclusters
412	TS04	P1704_0404	Poster	Geunseon Park	Yonsei University	Anchored Protease-Activatable Polymersome for precise detection of Cancer Cells

413	TS04	P1704_0420	Poster	Haejin Chun	Yonsei University	Fusogenic Polymersome Activated by Enzymatic Protease for Cancer Theragnosis
414	TS04	P1704_0445	Poster	Chaedong Lee	Graduate School of Convergence Science and Technology	Preparation of amine-functionalized and angular-shaped superparamagnetic iron oxide nanoparticles in one-pot synthesis for MR/fluorescence bimodal imaging applications
415	TS04	P1704_0448	Poster	Eun-Ah You	KRISS	Template-Assisted Fabrication of Hierarchical Nanostructures for Biomolecular Sensing Applications
416	TS04	P1704_0472	Poster	Minsu Kim	Yonsei University	Hydrogel microarray based sensitive paraoxon biosensing utilizing surface enhanced fluorescence(SEF)
417	TS04	P1704_0474	Poster	Abdurazak Aman	Sungkyunkwan University	Effect of the actin binding protein FLNA on cell traction and shape
418	TS04	P1704_0479	Poster	Kyeonghye Guk	University of Science & Technology (UST)	Label-free nanoprobe for antibody detection through antibody catalyzed water oxidation pathway
419	TS04	P1704_0537	Poster	Sihwa Joo	Korea Research Institute Bioscience and Biothchnology (KRIBB)	A single-molecule study of mutual relation between the vaccinia virus E3L protein and Z-DNA by magnetic tweezers
420	TS04	P1704_0538	Poster	Huan Yue	Kyungpook National University	Preparation and T1 MR imaging of Dextran-Coated Ultrasmall Gd ₂ O ₃ Nanoparticles
421	TS04	P1704_0542	Poster	Adibehalsadat Ghazanfari	Kyungpook National University	D-glucuronic acid coated Bi ₂ O ₃ and Yb ₂ O ₃ nanoparticles for Computed Tomography
422	TS04	P1704_0543	Poster	Shanti Marasini	Kyungpook National University	Relaxometric, Optical and Cell Viability Properties of D-Glucuronic Acid Coated Cr ₂ O ₃ Nanoparticles
423	TS04	P1704_0544	Poster	Mohammad Yaseen Ahmad	Kyungpook National University	Cyclic RGD (cRGD) coated gadolinium oxide nanoparticles for tumor diagnosis
424	TS04	P1704_0546	Poster	Sung June Kim	Kyungpook National University	Multi modal imaging of dye-coated gadolinium oxide nanoparticles in biomedical
425	TS04	P1704_0547	Poster	Xu Miao	Kyungpook National University	Biomedical applications of Poly(acrylic acid) Coated Gadolinium Oxide Nanoparticles

426	TS04	P1704_0568	Poster	Sohee Yoon	Korea Research Institute of Standards & Science (KRISS)	Comparison of Desorption Enhancement Methods in the Low Temperature Plasma Ionization Mass Spectrometry for Detecting Fatty Acids in Drosophila
427	TS04	P1704_0576	Poster	Yong Hun Jung	Korea University	Using EpCAM antibody-conjugated and ethanol-dispersed nanofibers, selectively sensing the circulating tumor cells
428	TS04	P1704_0587	Poster	Minsu Han	Yonsei University	Generation of photothermal patterns on PEDOT thin film for cell sheet engineering
429	TS04	P1704_0600	Poster	Kwon Jain Lee	Daejeon University	Enhanced Effect of Holmium Coated Magnetic Nanoparticles for Contrast Agents in Prostate Cancer Mice Model using Ultra-high Field Magnetic Resonance Imaging
430	TS04	P1704_0602	Poster	Gyeong-Ji Kim	Sogang University	Hederagenin coated nanodrug delivery systems for targeting the prostate xenograft mouse model
431	TS04	P1704_0603	Poster	Sang Yup Lee	Korea University	Development of Modified Martini Coarse-Grained Model for Functional Lipid Molecular Assemblies
432	TS04	P1704_0627	Poster	Joo Yoon Moon	Sogang University	The microfluidic device for rapid mixing applications
433	TS04	P1704_0628	Poster	Sunho Joh	Korea Research Institute of Standards & Science (KRISS)	Nanostructure-assisted Laser Desorption Ionization Mass Spectrometry to Analyze Ethanol Soluble Low-Mass Biomolecules
434	TS04	P1704_0630	Poster	Jisoo Park	Korea Research Institute of Standards & Science (KRISS)	Detection of Matrix Metalloproteinase-7 Using Amine Functionalized Plasma Polymerized Polyethylene Glycol Film
435	TS04	P1704_0640	Poster	Minwoo Kim	Korea University	The review of detecting ultra-sensitive nano toxic ions using various methods
436	TS04	P1704_0641	Poster	Byung Ju Yun	Yonsei University	Immunoassay using PCL/Ag/SiO ₂ nanofiber composite with metal-enhanced fluorescence effect

437	TS04	P1704_0642	Poster	Woong Kim	Korea University	High-sensitive detection of Aluminum ions via visually improved Kelvin probe force microscopy using gold nano-particle
438	TS04	P1704_0644	Poster	Youngmi Kim	Korea Research Institute of Standards & Science (KRISS)	Fabrication and characterization of amine-functionalized plasma-polymerized PEG film on 3D beads by using a modified PE-CVD system
439	TS04	P1704_0659	Poster	Seongjae jo	Korea University	Detection of copper ions in blood-like environment using Localized Surface Plasmon Resonance
440	TS04	P1704_0671	Poster	Jae woong Han	Konkuk University	Mouse somatic and germ cell specific toxicity of silver nanoparticles
441	TS04	P1704_0672	Poster	Jungdae Park	Korea Research Institute of Standards & Science (KRISS)	Analyses of metabolites extracted in breast cancer cell lines after hormone treatment using time-of-flight secondary ion mass spectrometry
442	TS04	P1704_0674	Poster	Minh Uyen T. Le	University of Science and Technology (UST)	An Investigation of Neurotransmitters in Drosophila melanogaster by Mass Spectrometry Analysis
443	TS04	P1704_0675	Poster	Seungki Lee	University of Seoul	pH-responsive smart cargo releasing "hollow" mesoporous silica nanoparticles
444	TS04	P1704_0676	Poster	Chang Min Jin	University of Seoul	Solution-State Surface-Enhanced Raman Scattering Maximized by Spontaneously Formed 3D Nanophotonic Wells
445	TS04	P1704_0686	Poster	Jeong Keun Kook	Gachon University	Boronic acid-functionalized magnetic nanocomposites for the efficient extraction of catechol amines from human serum and its application to dopamine ELISA
446	TS04	P1704_0694	Poster	Tran Anh Vy	Gachon University	Core-shell mesoporous silica nanostructures of Fe ₃ O ₄ @MSNs@PEG@Gold as controlled drug release and bio-imaging agents for cancer therapy

447	TS04	P1704_0698	Poster	Jeong Hyang Park	DGIST	Monitoring defects in plasma membrane composition of neurons in neurodegenerative diseases
448	TS04	P1704_0717	Poster	Hee-Kyung Na	Korea Research Institute of Standards & Science (KRISS)	Facile synthesis of monodisperse porous silicon nanoparticles for well-designed theranostics
449	TS04	P1704_0726	Poster	Jieun Sim	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Proximity-HCR (Hybridization Chain reaction) biosensor for detection pathogens
450	TS04	P1704_0727	Poster	Jaehyun Kang	Seoul National University	High-throughput Nucleic Acid Extraction Method Using SiNx Nanofilter Device
451	TS04	P1704_0728	Poster	Sukhbayar Gankhuyag	Changwon National University	Fabrication and characterization of SiO ₂ @Ag as antibacterial agent via facile impregnation method: silver ions concentration, and calcination for bactericidal activity
452	TS04	P1704_0729	Poster	Yun Ju Sung	Korea Research Institute Bioscience and Biothchnology (KRIBB)	A fluorescent immunomagnetic system for the rapid, sensitive and selective detection of Staphylococcus aureus
453	TS04	P1704_0733	Poster	Ju-Young Byun	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Label-free, in situ detection of cell-free expressed protein using plasmonic nanosensor
454	TS04	P1704_0746	Poster	Viet Duc Phung	Gachon University	Gold-silver core-shell nanoparticles as high-performance SERS substrates for detecting dopamine in human serum
455	TS04	P1704_0757	Poster	Soojung kim	Pusan National University	Highly-resolved fluorescence imaging on vertical nanopillar array terminated Au nanoparticles for investigation of inner cell environment
456	TS04	P1704_0776	Poster	Won-Il Lee	Sungkyunkwan University	Smartphone imaging-based label-free seesawed fluorescent detection of estradiol on fluorescent enhanced microarray with high sensitivity and accuracy

457	TS04	P1704_0791	Poster	Seunghun Lee	Pusan National University	Tunable Laser based Enhanced Optical Sensor using a Nanowire Structure
458	TS04	P1704_0798	Poster	Jaehoon Kim	Korea University	Displacement-based digitized filling flow by vent control in microfluidic device for signal enhancement of immunoassay
459	TS04	P1704_0809	Poster	Jinchul Ahn	Korea University	Sheathless focusing method using ion concentration polarization on microfluidic device
460	TS04	P1704_0821	Poster	Gayoung Eom	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Sensitive and Specific Detection of Telmoerase Activity using Au Nanoparticles-deposited Au Nanowire SERS Sensor
461	TS04	P1704_0822	Poster	Haneul Yoo	Seoul National University	Magnetically-Refreshable Receptor Platform Structures for Reusable Nano-biosensor Chips
462	TS04	P1704_0823	Poster	Kkotchorong Park	Korea Advanced Institute of Science and Technology (KAIST)	Efficient Transportation of Biomolecules to Living Cells by Novel Metal Nanowire
463	TS04	P1704_0837	Poster	Jihoon Kang	Hanyang University	Cancer Biosensor Microfluidic System Based on the Three-Dimensional Web Structure of Carbon Nanotubes
464	TS04	P1704_0844	Poster	Junhyoung Ahn	Korea Institute of Machinery and Materials (KIMM)	H1N1 Virus Detection with Fluorescent Nanomesh Filter using Multilayer Liquid Transfer Imprint Lithography
465	TS04	P1704_0870	Poster	Kyeonghye Guk	KRIBB	Colorimetric detection of influenza A (H1N1) virus by a peptide-functionalized polydiacetylene (PEP-PDA) nanosensor
466	TS04	P1704_0871	Poster	Eun-Kyung Lim	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Recent Advances in pH-Sensitive Polymeric Nanoparticles for Smart Drug Delivery in Cancer Therapy
467	TS04	P1704_0896	Poster	Chanyong Park	Sungkyunkwan University	Microfluidic intestine-pancreas co-culture system for a diabetes treatment model
468	TS04	P1704_0902	Poster	Yong Cheol Shin	Pusan National University	Application of black phosphorus nanodots to cell imaging

469	TS04	P1704_0905	Poster	Tran Anh Vy	Gachon University	Mesoporous silicon nanoparticle as a theragnostic nanocarrier for cancer imaging and therapeutic applications
470	TS04	P1704_0915	Poster	Ahreum Hwang	Korea Advanced Institute of Science and Technology (KAIST)	Well-Ordered Troponin Aptamers on Ultraflat, Ultraclean Gold Nanoplates for Early-Diagnosis of Acute Myocardial Infarction
471	TS04	P1704_0928	Poster	Subin Yu	Ewha Womans University	Titania Coated Anisotropic Gold Nanoparticles for Phototherapy Induced By NIR
472	TS04	P1704_0937	Poster	Jeong Moon	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Facile Immobilization of Antibody using Polydopamine and Protein G Mixture: Toward Substrate-Free Influenza Virus Detection
473	TS04	P1704_0942	Poster	Da Yeon Park	Sogang University	Generation of cellular spheroids from microwells and nanoparticles
474	TS04	P1704_0943	Poster	Yunjeong Lee	University of Seoul	Sponge-like 3D Porous Nanoplasmonic Structures for Surface-Enhanced Raman Spectroscopy
475	TS04	P1704_0948	Poster	Jusang Yang	Korea University	Highly-stable trypsin coatings on magnetic nanofibers for the effective protein digestion
476	TS04	P1704_0949	Poster	Youngkyu Cho	Korea University	Ion concentration polarization based pre-concentration without pH change.
477	TS04	P1704_0956	Poster	Youngjun Ju	Korea University	Antibody-conjugated Polymer Nanofibers for Selective Capture and Culture of EpCAM-positive Cells
478	TS04	P1704_0962	Poster	Seokyung Lee	Sungkyunkwan University	Real-time molecular detection of matrix metalloproteinase(MMP)-2, 9 in mouse models of lymph node metastasis via in vivo ratio-metric fluorescence imaging
479	TS04	P1704_0972	Poster	YoungRak Lee	Korea University	Improved Performance of Enzymatic Biofuel Cells based on Enzyme Stabilization on Polyaniline Nanofibers
480	TS04	P1704_0976	Poster	Jahyun Nam	Korea University	Enzymatic Antifouling based on Highly Stable and Reusable Immobilized Acylase via Quorum Quenching

481	TS04	P1704_0980	Poster	Jawon Shin	Korea Institute of Science and Technology (KIST)	Development of a highly reactive nanosensor toward hydrogen sulfide
482	TS04	P1704_0993	Poster	Gayoung Kim	Korea Institute of Science and Technology (KIST)	Indocyanine green-loaded nanoparticles for locoregional treatment: fluorescence imaging and photo-thermal therapy
483	TS04	P1704_1044	Poster	Dan Heo	Department of Radiology, Yonsei University college of medicine	Albumin-conjugated T1 Contrast Agent for the targeted MR imaging of breast cancer
484	TS04	P1704_1045	Poster	Young Han Lee	Yonsei University College of Medicine	Aptamer-modified Magnetic Nanoplatform for Targeted MR imaging of ErbB2-overexpressing Cancer
485	TS04	P1704_1046	Poster	Junghoon Kim	Yonsei University College of Medicine	Dual modal sensing of HER2 protein by LSPR and SERS based on gold nanorods
486	TS05	P1705_0004	Poster	Jeong Yeon Do	Yeungnam University	Photocatalytic CO ₂ reduction with H ₂ O vapors for CH ₄ production using Sb _{1.5} Sn _{8.5} -xTi _x O _y synthesized by hydrothermal method
487	TS05	P1705_0009	Poster	Byeong Sub Kwak	Yeungnam University	Redox characteristic of Fe ₂ -xNi _x MnO ₄ spinel structure for chemical looping combustion
488	TS05	P1705_0010	Poster	Jaekyeong Yoo	Seoul National University	Hydrogen production by steam reforming of natural gas over vanadium-nickel-alumina catalysts
489	TS05	P1705_0011	Poster	Haebin Shin	Seoul National University	Improvement of sulfur resistance of Pd/Ce-Zr-Al-O catalysts in the oxidation of carbon monoxide
490	TS05	P1705_0012	Poster	Youngsoo Ro	Seoul National University	Alkylation of isobutane/2-butene over modified FAU-type zeolites
491	TS05	P1705_0014	Poster	Ji Yeong Lee	Korea Institute of Science and Technology (KIST)	Compositional analysis of Li(NiCoMo)O ₂ (NCM111) with cycling performances by three-dimensional atom probe tomography (APT)
492	TS05	P1705_0025	Poster	Young-Joo Eo	Korea Institute of Energy Research (KIER)	Cost Effective Manufacturing Process for Cu(In _{1-x} Ga _x)Se ₂ Thin Film Solar Cell using CuS Nanoparticle precursors

493	TS05	P1705_0039	Poster	Seung Yeon Son	Gachon University	Crab-shell biotemplated SnO ₂ composite anodes for lithium-ion batteries
494	TS05	P1705_0078	Poster	Soo Hyun Lee	Gachon University	Intermetallic alloy composite materials for high-performance sodium-ion storage
495	TS05	P1705_0080	Poster	Jeon Taik Lim	Korea University of Technology and Education	Recycling of Al-Si die casting scraps to improve cost competition of SOG-Si
496	TS05	P1705_0086	Poster	Niyitanga Theophile	Daegu University	Poly(vinyl alcohol) and thermal reduced graphene oxide composite for energy storage devices
497	TS05	P1705_0133	Poster	Hyeonggi Kim	Gachon University	Comparative Study on the Mechanically Milled MoS ₂ and MoSe ₂ in Graphite Matrix as Anode Materials for High-Performance Lithium-ion Batteries
498	TS05	P1705_0157	Poster	Sanghwa Lee	Seoul National University	Colloidal Synthesis of Potassium Doped Bismuth Telluride for Improved Thermoelectric Performance
499	TS05	P1705_0168	Poster	Minsun Kim	Daegu Gyeongbuk Institute of Science & Technology (DGIST)	A Study of the Prussian Blue/Prussian White Redox Reactions on the Surface of TiO ₂ Photocatalyst
500	TS05	P1705_0175	Poster	Hyung-Ju Kim	Korea Atomic Energy Research Institute (KAERI)	Polymeric Membranes for Desalination & Nuclides Separation
501	TS05	P1705_0176	Poster	Byeongguk Kang	Kyonggi University	Effect of Matakaolin Based Geopolymers under Existence of Precuring Process
502	TS05	P1705_0183	Poster	Trang	Pusan National University	High Efficiency Water Splitting Based on ZnO-WO ₃ Composite Nanoparticles Film
503	TS05	P1705_0188	Poster	Gayea Hyun	Korea Advanced Institute of Science and Technology (KAIST)	Hierarchically Porous Platinum Electrode for Efficient Mass Transfer in PEM Fuel Cell
504	TS05	P1705_0197	Poster	Minh Hai Tran	Daegu University	Effect of carbon structure on capacitance of ruthenium-carbon composites
505	TS05	P1705_0199	Poster	Ara CHO	Korea Institute of Energy Research (KIER)	Application of Se@Ag ₂ Se core-shell in the hybrid ink to thin film solar cells

506	TS05	P1705_0201	Poster	Malik Abdul Rehman	Sejong University	High Efficiency and stable metal insulator semiconductor Schottky junction solar cell on direct grown horizontal graphene with Al ₂ O ₃ interlayer on n-type textured silicon
507	TS05	P1705_0240	Poster	Hyung Seok Kong	Inha University	Porous cobalt oxide prepared using various surfactants for oxygen reduction reaction (ORR)
508	TS05	P1705_0243	Poster	MD Lutful Kabir	Kyungpook National University	Highly proton conductive poly(vinyl acetate)/Nafion® composite membrane for proton exchange membrane fuel cell application
509	TS05	P1705_0245	Poster	sumin Son	Inha University	Nanocarbon derived from ZIF-8 as an efficient electrode for oxygen reduction reaction (ORR)
510	TS05	P1705_0246	Poster	Jieun Kim	Inha University	Porous manganese oxides using hydrothermal method with surfactants for rechargeable lithium-air Battery
511	TS05	P1705_0257	Poster	No-Kuk Park	Yeungnam University	Activity Tests of Macro-Meso Porous Catalysts over Metal Foam Plate for Steam Reforming of Bio-Ethanol
512	TS05	P1705_0259	Poster	Yong Han Jung	Yeungnam University	Effect of Manganese oxide over Cu-Mn-based Oxygen Carriers for Chemical Looping Combustion
513	TS05	P1705_0275	Poster	Woo-Bin Jung	Korea Advanced Institute of Science and Technology (KAIST)	Effect of wrinkle structure on electrocatalytic behavior for CO ₂ reduction
514	TS05	P1705_0277	Poster	Lan Anh Thi Nguyen	Department of Physics, Hanyang University	Hydrogen Permeation and Embrittlement Characteristics of SS316LN
515	TS05	P1705_0282	Poster	Hyung Yong Ji	Korea Institute of Industrial Technology (KITECH)	Surface Passivation Effect of Amorphous Si Thin Films Deposited on Nano-textured Crystalline Silicon Solar Cell
516	TS05	P1705_0284	Poster	Sel Gi Ryu	Chonbuk National University	Characteristic of Al-rich Zinc Oxide Thin Films for Application of Crystalline Silicon Solar Cell

517	TS05	P1705_0287	Poster	Ok-Sik Kim	Daegu Gyoungbuk Institute of Science & Technology (DGIST)	Surface Treatment of Cu ₂ ZnSn(S, Se) ₄ thin film solar cells
518	TS05	P1705_0288	Poster	Chan Sol Kim	Korea Advanced Institute of Science and Technology (KAIST)	Three Dimensional Bismuth vanadate/Carbon coated Copper oxide Nanowire array for Artificial Photosynthesis in Carbon dioxide reduction
519	TS05	P1705_0293	Poster	Jun-Hyoung Sim	Daegu Gyeongbuk Institute of Science & Technology (DGIST)	Earth-abundant absorber based solar cells onto flexible substrate
520	TS05	P1705_0298	Poster	Ermias Libnedengel Tsege1	Pusan National University	Cu ₂ O/CuO nanowire-ZnO heterojunction for efficient photo induced overall water splitting
521	TS05	P1705_0308	Poster	Robel Mehari	Gachon University	Bimetallic nickel-cobalt decorated macroporous 3D MWCNT aerogel for urea electro oxidation
522	TS05	P1705_0318	Poster	Sachin A. Pawar	Department of Physics, Yeungnam University, Gyeongsan, Gyeongbuk 38541, South Korea	AgInS ₂ absorber for Quantum Dot Sensitized Solar Cells
523	TS05	P1705_0319	Poster	Yunjang Gu	Korea Institute of Industrial Technology (KITECH)	Microporous Magnesium based Metal-Organic Frameworks for the Synthesis of Cyclic Carbonates from Epoxide and CO ₂
524	TS05	P1705_0321	Poster	Kwang Se Lee	National NanoFab Center	Electrochemical properties of multi-walled carbon nanotubes treated with nitric acid for a supercapacitor electrode
525	TS05	P1705_0324	Poster	Eunmi Im	Korea Institute of Industrial Technology (KITECH)	Microporous Magnesium based Metal-Organic Frameworks for the Synthesis of Cyclic Carbonates from Epoxide and CO ₂
526	TS05	P1705_0325	Poster	Jae-seung Jeong	Gyeongsang National University	Facile fabrication of patterned Si film electrodes containing point pattern-structure embedded in Cu current collectors

527	TS05	P1705_0329	Poster	Taeyong Kim	Korea Institute of Industrial Technology (KITECH)	Low-Temperature Selective Catalytic Reduction of NO _x with NH ₃ Over a Novel V ₂ O ₅ /RGO-TiO ₂ catalyst
528	TS05	P1705_0330	Poster	Ji-Woong Shin	Korea National University of Transportation	Enhanced the electrochemical performance of Na[Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ cathode material by Polypyrrole coating
529	TS05	P1705_0331	Poster	Seong Gwan Shin	Gachon University	High performance perovskite solar cell fabricated with optimum photoelectrode and light absorbing layer.
530	TS05	P1705_0332	Poster	Jin-Ju Bae	Korea National University of Transportation	Synthesis of nanostructured LiFe _{0.85} Mn _{0.15} PO ₄ cathode material by sol-gel method using AAO template for Li-ion batteries
531	TS05	P1705_0344	Poster	Jae-Yeon Yang	Korea Institute of Carbon Convergence Technology (KCTECH)	Mesophase pitch/phenol-formaldehyde carbon with ordered/disordered bimodal mesoporous carbon for electrode materials
532	TS05	P1705_0366	Poster	Jin Baek	Korea Institute of Carbon Convergence Technology	A Study on Electrochemical Behaviors of Kenaf Stem-Derived Porous Carbon Materials for the Electrode of High Performance Supercapacitor
533	TS05	P1705_0374	Poster	Dipali S. Patil	Yeungnam University	Silver nanowires/Cadmium sulfide core shell nanostructure for electrochemical supercapacitors
534	TS05	P1705_0389	Poster	Rajkumar Sahu	Chonbuk National University	Oxide Tunneling Si Solar Cell Fabrication by Oxygen Ion Implantation with the Inclusion of Silicon-on-Insulator Nanolayer
535	TS05	P1705_0390	Poster	Jong Hun Mun	Chonbuk National University	MoS ₂ /Si Nano-heterojunction Formation by Electron Beam Evaporation for Solar Cell Application
536	TS05	P1705_0392	Poster	Srikanta Palei	Chonbuk National University	GaAs Nanodot Thin-film Solar Cell Fabricated by RF Sputtering Process
537	TS05	P1705_0397	Poster	Danyun Lei	Chonbuk National University	Fabrication of Phenolic Resin Enhanced PAN-based Carbon Nanofibers for Flexible Supercapacitor Applications

538	TS05	P1705_0399	Poster	Tae-Hoon Ko	Chonbuk National University	Fabrication of Triboelectric Nanogenerator Integrated Supercapacitor for Wearable Applications
539	TS05	P1705_0400	Poster	Junyoung Lee	Hanyang University	Enhancement of CdTe quantum dot-sensitized solar cell applying modified single-walled carbon nanotube
540	TS05	P1705_0406	Poster	Jeong-Ho An	Gangneung-Wonju National University	Numerical Simulation on the Induced Voltage across the Coil Terminal by the segmented flow of Ferrofluids
541	TS05	P1705_0422	Poster	Jong-Ki Jeon	Kongju National University	Hydrougrading of Bio-oil over PtMg/KIT-6 Catalysts
542	TS05	P1705_0426	Poster	Sung Soo Shin	Seoul National University	A novel fabrication method of high-performance multiscale solid oxide fuel cell (SOFC) via aerosol-based spray deposition method
543	TS05	P1705_0434	Poster	Amine brayek	Kumoh National Institute of Technology	Fabrication of ZnO-ZnS@polyaniline nanohybrid on FTO glass for enhanced Hydrogen generation
544	TS05	P1705_0435	Poster	Amine brayek	Kumoh National Institute of Technology	BaTiO ₃ /CoO-PANI nanostructure on FTO glass with the enhanced absorption and photocatalytic performance for Hydrogen generation
545	TS05	P1705_0436	Poster	Amine brayek	Kumoh National Institute of Technology	BaTiO ₃ /CuO-PANI nanostructure on FTO glass with the enhanced absorption and photocatalytic performance for Hydrogen generation
546	TS05	P1705_0437	Poster	Soon-Ki Jeong	Soonchunhyang University	Effects of electrolyte concentration on surface film formation on graphite in ethylene carbonate-based solutions
547	TS05	P1705_0441	Poster	Huijin Kim	Korea Institute of Industrial Technology (KITECH)	Electrochemical Performance of TiO ₂ /Nanocarbon-based Nanofibers by Electrospinning as an Energy Storage Material

548	TS05	P1705_0458	Poster	Ji Hoon Kang	Hanyang University	Photovoltaic properties of n-ZnO/p-Si heterojunctions with Al-doped ZnO as electron transporting layer
549	TS05	P1705_0462	Poster	Hojin Jeong	Korea Advanced Institute of Science and Technology (KAIST)	Enhanced Diesel Oxidation Activity and Durability of Pd/CeO ₂ Catalysts via Hydrothermal Treatment
550	TS05	P1705_0463	Poster	Ho Seok Whang	Korea Advanced Institute of Science and Technology (KAIST)	Dry reforming of methane over highly active and durable Ru-based catalyst with zirconia
551	TS05	P1705_0466	Poster	Saqib Siddiqui	Sungkyunkwan University	A Robust Piezoelectric Nanogenerator with Nanocomposite Nanofibers under High Loading for a Self-Powered Sensor System
552	TS05	P1705_0470	Poster	Min Suk Choi	Korea Advanced Institute of Science and Technology (KAIST)	Uncoupling Effects of Size and Support on Ni Catalysts for Dry Reforming of Methane
553	TS05	P1705_0473	Poster	Dong kyu Lee	National Nanofab Center	Web of carbon fibers coated with 3D snowflake-shaped Ni ₃ S ₂ / Ni produced by electroless Ni plating: a binder-free cathode electrode for lithium batteries
554	TS05	P1705_0501	Poster	Chan Hun Kim	Korea University	Nano-sized and unsupported tungsten carbide catalyst for upgrading vacuum residue
555	TS05	P1705_0502	Poster	Subeom Shin	Hanyang University	Hollow TiO ₂ webbed Carbon Nanotubes with Dual functional Porous Carbon-paper for High performance advanced Li-S battery system
556	TS05	P1705_0506	Poster	Sang-Min Park	Hanyang University	Novel Cathode Materials for High-rate and High-energy Sodium-ion Batteries
557	TS05	P1705_0507	Poster	Hun Kim	Hanyang University	Critical issues in Li-O ₂ full cell
558	TS05	P1705_0508	Poster	Li Ping	Sungkyunkwan University	Controllable synthesis of hierarchical porous mixed transition-metal oxide spheres for lithium ion batteries
559	TS05	P1705_0511	Poster	Jin Il Kim	Yonsei University	A Structurable Gel-Polymer Electrolyte for Sodium Ion Batteries

560	TS05	P1705_0514	Poster	Mingyu Jung	Sungkyunkwan University	Development of High-Capacity Pseudocapacitor based on Nickel Oxide/Graphene Nanocomposites
561	TS05	P1705_0517	Poster	Jae Keun Nam	Yonsei University	Potassium Incorporation for Enhanced Performance and Stability of Fully Inorganic Cesium Lead Halide Perovskite Solar Cells
562	TS05	P1705_0521	Poster	Geontae Park	Hanyang University	High-energy capacity Li-ion batteries using Li[Ni _{0.8} Co _{0.06} Mn _{0.14}]O ₂ positive electrode material with a two-sloped full concentration gradient(TSFCG)
563	TS05	P1705_0528	Poster	Jae-Hyung KIM	Hanyang University	The Unique Crystallographic Structure of FCG(Full Concentration Gradient) Cathode Material with Long-Term Cycling Stability for EV Application
564	TS05	P1705_0532	Poster	Sang Moon Lee	Kyonggi University	Catalytic performance of Ni based catalytic porous membrane prepared by modified electroless palladium plating for steam methane reforming
565	TS05	P1705_0533	Poster	Eunhee Jang	Korea University	Robust H ₂ Perm-selective Zeolitic Imidazolate Framework-8 (ZIF-8) Films
566	TS05	P1705_0540	Poster	Tahmineh Mahmoudi	Chonbuk National University	Comparative Studies of Metal-doped ZnO Transparent Conducting Oxide Thin Films and Their Application as Cathode Interlayer in Solar Cells
567	TS05	P1705_0551	Poster	Hyeon Ho Shin	KU-KIST Graduate school of Converging Science and Technology	Visible-Light Induced Photocatalysts for Highly Efficient Suzuki-Miyaura C-C coupling reaction
568	TS05	P1705_0558	Poster	Min Woo Lee	Korea University	Highly active SiO ₂ @Pd@CeO ₂ core-shell catalystfor CO and propylene oxidation
569	TS05	P1705_0560	Poster	백민기	Pohang University of Science and Technology (POSTECH)	Enhanced solar water splitting performance of ZnO photoanode via simple vacuum annealing treatment

570	TS05	P1705_0564	Poster	Beumjin Park	Sungkyunkwan University	One- pot synthesis of CNT branching and N doping on the 3D graphene architecture for Lithium battery
571	TS05	P1705_0569	Poster	Yousheng Wang	Chonbuk National University	Ambient-air Processed Perovskite Solar Cells Employing Effective Perovskite-NiO Nanoparticles Composite
572	TS05	P1705_0574	Poster	Beom-Soo Koh	Hanyang University	Fabrication and evaluation of the high performance PEMFC MEA with a low Pt loading prepared by electrostatic spray deposition.
573	TS05	P1705_0590	Poster	Min June Kim	Korea University	Application of meso-nickel manganese oxide for the hydrogen peroxide decomposition
574	TS05	P1705_0595	Poster	Byung Jin Lee	Korea University	Improvement of transition metal-based catalyst on hierarchical HZSM-5 for methane dehydroaromatization
575	TS05	P1705_0596	Poster	Suyeon Quon	Korea University	Pt-doped Pd nano-octahedron catalyst for direct synthesis of H ₂ O ₂ from H ₂ and O ₂
576	TS05	P1705_0599	Poster	Deok Yeon Jo	Korea University	Interplay of Ligand and Strain Effects in CO Adsorption on Bimetallic Cu/M (M=Pt, Pd, Ir, Ni) Catalysts from First-principles: Effect of Different Facets in Catalysis
577	TS05	P1705_0606	Poster	Hyeon Jeong Lee	Korea Advanced Institute of Science and Technology (KAIST)	High Performance Pseudocapacitors based on Multicomponent Transition Metal Oxides by Local Distortion of Oxygen Octahedra
578	TS05	P1705_0613	Poster	Weerachon Phoothinkong	King Mongkut's Institute of Technology Ladkrabang	Synthesis of low-cost titanium dioxide-based nanocomposite from natural ilmenite and leucoxene for electrochemical energy storage materials
579	TS05	P1705_0614	Poster	Weerachon Phoothinkong	Suan Dusit University	Natural rubber cellulose nanocomposites extracted from coconut mesocarp fiber
580	TS05	P1705_0616	Poster	Kangho sin	Sungkyunkwan University	Hydrothermal synthesis of Co-Vanadium Oxide for Rechargeable Lithium Ion Battery

581	TS05	P1705_0621	Poster	Heejoong Kim	Korea University	Adsorption properties of mono-dispersed DDR zeolite particles synthesized via seeded growth method
582	TS05	P1705_0634	Poster	Zuh Youn Vahc	Hanyang University	The influence on the cell performance of CO production by Boudouard reaction in direct carbon solid oxide fuel cells
583	TS05	P1705_0643	Poster	Young-Hoon Cho	Korea University	Na promoted effects Pd/TiO ₂ for Direct Synthesis of Hydrogen Peroxide from Hydrogen and Oxygen
584	TS05	P1705_0651	Poster	Chang-Duk Kim	Kyungpook National University	Synthesis of Ni-graphite core-shell nanoparticles for bulk hetero-junction solar cell applications
585	TS05	P1705_0655	Poster	Seungyeon Choi	Korea Advanced Institute of Science and Technology (KAIST)	Hydrated Intercalation for Efficient Desalination of Asymmetric Capacitive Deionization
586	TS05	P1705_0660	Poster	Hyunguk Kwon	University of Seoul	Density Functional Theory Study for Chemical Degradation in Perovskite Cathodes for Solid Oxide Fuel Cells
587	TS05	P1705_0669	Poster	Soo Yeon Lim	Graduate school of EEWS	Na ₇ V ₄ (P ₂ O ₇) ₄ PO ₄ as an Amphoteric Active Phase in Sodium Ion Batteries
588	TS05	P1705_0687	Poster	Hyung Jun Kim	University of Seoul	Effect of Transition-Metal Dopants on Ceria Catalysts for CO Oxidation
589	TS05	P1705_0689	Poster	Kyungchul Sun	Korea Institute of Industrial Technology (KITECH)	Wet-laid process based carbon fiber non-woven and their application
590	TS05	P1705_0691	Poster	Rui Huang	University of Seoul	Support Effect of Supported Pd Catalysts Prepared by Incipient Wetness Impregnation Method for CO Oxidation
591	TS05	P1705_0699	Poster	Hyunsoo Ma	Ulsan National Institute of Science and Technology (UNIST)	The comparative investigation of solid electrolyte interphase on graphite in full cells
592	TS05	P1705_0702	Poster	Sangkuk Kim	Pohang University of Science and Technology (POSTECH)	Highly adaptive artificial leaf applicable in various nature environments

593	TS05	P1705_0705	Poster	Young-Il Kim	Daegu Gyeongbuk Institute of Science & Technology (DGIST)	Fabrication of Cu ₂ ZnSn(S, Se) ₄ absorber layers using metal and compound thin films
594	TS05	P1705_0706	Poster	Woongrae Cho	Ulsan National Institute of Science and Technology (UNIST)	Critical Role of Cations in Lithium Sites on Extended Electrochemical Reversibility of Co-rich Layered Oxide
595	TS05	P1705_0719	Poster	Seonggyu Lee	Pohang University of Science and Technology (POSTECH)	Importance of Structural Factors of Metal-free Oxygen Reduction Reaction Catalysts in the Membrane Electrode Assemblies for Anion Exchange Membrane Fuel Cells
596	TS05	P1705_0737	Poster	Bohyun Kim	Gachon University	Effect of crosslinking on the hydroxide conductivity in the nano ionic channels of a multication side chain quaternized poly(arylene ether sulfone) membrane
597	TS05	P1705_0743	Poster	Seoung-Ju Lee	Hanyang University	Nanostructural analysis of PEMFC catalyst layer by three-dimensional reconstruction
598	TS05	P1705_0750	Poster	K.P.Shinde	Korea Institute of Materials Science (KIMS)	Studies on synthesis and characterization of iron nitride nanoparticles by urea route
599	TS05	P1705_0762	Poster	Jyoti V. Patil	Shivaji University	Electrochemically anodized 1D TiO ₂ nanotube arrays for supercapacitor application
600	TS05	P1705_0775	Poster	T. S. Bhat	Shivaji University	ZnS Treated Simplistic Linker Free Growth of PbSe nanoparticles on TiO ₂ nanorod Array-based Solar Cells
601	TS05	P1705_0780	Poster	Jasmin S. Shaikh	Shivaji University	Supercapattery in Ionic liquid: Quantum size graphene sheets- anchored nickel oxide nanorods as an electrode
602	TS05	P1705_0786	Poster	Mahipal Ranot	Korea Institute of Materials Science	Study of different approaches to modify the physical properties of MgB ₂ via Bi addition
603	TS05	P1705_0789	Poster	Seong Hyeon Choi	Department of Energy Engineering	Rediscovery of pitch as ideal coating source for Si-based anode materials in Lithium ion batteries

604	TS05	P1705_0792	Poster	Seongseop Kim	Pohang University of Science and Technology (POSTECH)	Direct access to multi-length scale structured Nb ₂ O ₅ possessing submicron-particles and mesoporous structures
605	TS05	P1705_0808	Poster	Geun-Ho Han	Koera University	Guaiacol hydrodeoxygenation reaction pathways over ZrP supported Co and Ni catalysts
606	TS05	P1705_0825	Poster	Byungwoo Kim	Korea Institute of Science and Technology (KIST)	A study on the relationship between physical properties and photoelectrochemical properties of Cu(In, Ga)(S, Se) ₂ photocathodes
607	TS05	P1705_0826	Poster	Jaeseung Jeong	Korea Institute of Science and Technology (KIST)	COLORED PARTIAL TRANSPARENT PHOTOVOLTAICS USING SOLUTION-PROCESSED CIGS THIN-FILM FOR BIPV
608	TS05	P1705_0832	Poster	Heeyeon Kim	Korea Institute of Energy Research (KIER)	Application of porous graphene layers for long-term stability of metal catalysts
609	TS05	P1705_0834	Poster	Hyung Cheoul Shim	Korea Institute of Machinery and Materials (KIMM) & University of Science and Technology (UST)	Silicon-carbon nanotube aerogel nanostructures for lithium-ion batteries with long-cycle life and high capacity
610	TS05	P1705_0840	Poster	Chang Won Yoon	Korea Institute of Science and Technology (KIST)	Influence of ensemble and ligand effects of PdAu catalyst on formic acid dehydrogenation: Experimental and theoretical investigation
611	TS05	P1705_0847	Poster	Hyunah Kim	Seoul National University	Coordination tuning of phosphates based materials towards efficient water oxidation catalyst
612	TS05	P1705_0854	Poster	Dahee Lee	Ewha Womans University	Synthesis and thermoelectrical properties of Sulfur-doped CuBi ₂ O ₄
613	TS05	P1705_0855	Poster	Dong Gwon Moon	Korea Institute of Energy Research (KIER)	Effects of impurity phase marcasite on the properties of pyrite thin films
614	TS05	P1705_0856	Poster	Shanza Rehan	Korea Institute of Energy Research (KIER)	Effects of Sodium Addition on Non-Vacuum based CuInSe ₂ Thin Film Solar Cells

615	TS05	P1705_0857	Poster	Ly Thi Giang	Ewha Womans University	Synthesis and Structure of Octahedral Rhenium Clusters as new Materials for Solar Cell
616	TS05	P1705_0859	Poster	Minkyong Kang	Ewha Womans University	Synthesis of layered structure Germanium and applicate it to Li and Na ion battery
617	TS05	P1705_0863	Poster	YINGSHI JIN	Ewha Womans University	Solution Synthesis of Surfactant-Free Cu ₂ -xSe and CuAgSe and their Thermoelectric Properties
618	TS05	P1705_0867	Poster	Kshama Singh	Ewha Womans University	Hydrogen Evolution from Ammonia over Highly Stable RuO _x (x=0, 1) -Loaded Hierarchical Hollow Nanoporous Silica Spheres
619	TS05	P1705_0901	Poster	Byunghoom Kim	Seoul National University	Mechanism study on Transition-metal doped Cobalt oxide OER catalysts
620	TS05	P1705_0922	Poster	Chung-Yul Yoo	Korea Institute of Energy Research (KIER)	Electrochemical properties of Ni-based electrode for water electrolysis and pseudocapacitor
621	TS05	P1705_0924	Poster	Ji In Park	Korea Institute of Science and Technology (KIST)	Optimization of Alkali metal Promoted Cu/ZnO/Al ₂ O ₃ catalyst for Higher Alcohol Synthesis
622	TS05	P1705_0940	Poster	Han Sol Kim	Korea University	Enzymatic CO ₂ Conversion and Utilization for Improving the Growth of Photosynthetic Microorganism
623	TS05	P1705_0944	Poster	Ji Young Kim	Daegu Gyeongbuk Institute of Science & Technology (DGIST)	Effects of a dianion compound as a surface modifier on the interfacial charge recombination in TiO ₂ -based solar cells
624	TS05	P1705_0947	Poster	Dong-Won Shin	Catholic University of Daegu	Improved photovoltaic performance of poly(3-hexylthiophene)-based solar cells by incorporation of a thiophene derivative in the active layer
625	TS05	P1705_0951	Poster	Hyun-Seop Shin	Korea Institute of Energy Research (KIER)	RuO ₂ decorated CNT cathode for lithium-oxygen batteries through atomic layer deposition

626	TS05	P1705_0952	Poster	Saad Sarwar	University of Science & Technology (UST)	MOF-based Gel Electrolyte for Thermally Secure DSSCs
627	TS05	P1705_0959	Poster	Woo Ju Kwon	Korea Institute of Energy Research (KIER)	Enhanced Li ⁺ Conduction in perovskite Li ₃ xLa _{2/3-x} □ _{1/3-2x} TiO ₃ Solid-electrolyte
628	TS05	P1705_0965	Poster	Hana Yoon	Korea Institute of Energy Research (KIER)	Porous Carbon Nanosheets with Controllable Pore Size for High-Performance Electrochemical Capacitors
629	TS05	P1705_0967	Poster	Jisu Han	University of Science & Technology (UST)	Optimization of complementary electrochromic devices using TiO ₂ -WO ₃ and Prussian blue(PB)
630	TS05	P1705_0969	Poster	Hyun Soo Park	Sungkyunkwan University	Electrical Conductivity of Nanocarbon Powders
631	TS05	P1705_0979	Poster	Kyung-Hye Jung	Catholic University of Daegu	Electrochemical Performance of Carbon Nanofiber Electrodes Derived from Poly(AN-co-VIM)
632	TS05	P1705_0994	Poster	Teantong Chonsut	King Mongkut's Institute of Technology Ladkrabang	Efficiency enhancement of polymer solar cells through the second electron acceptor
633	TS05	P1705_0999	Poster	Jungjoon Yoo	Korea Institute of Energy Research (KIER)	Investigation of in-plane and out-of-plane structured multilayer graphene supercapacitors for high volumetric performance
634	TS05	P1705_1005	Poster	Ji-Young Jeong	Hanbat National University	An Investigation on the Crystal Growth of Hybrid Perovskites Films via Shear Coating Processes
635	TS05	P1705_1007	Poster	Ji-Hye Choe	Hanbat National University	Influence of Additional Inorganic Layer to Performance of Perovskite Solar Cells
636	TS05	P1705_1026	Poster	Ki-Beom Cheon	Seoul National University	Optimization of Transparent-Conducting-Oxide for Kesterite Solar Cells
637	TS05	P1705_1029	Poster	Seong Eun Heo	Seoul National University	Fabrication and catalytic properties of RuO ₂ /MoS ₂ nanoparticle supported by TiO ₂ nanotube arrays
638	TS05	P1705_1034	Poster	Yi Taek Choi	Kyungpook National University	Fabrication of the thermal radiation plate of a thermoelectric module using anodic oxidation and electroplating

639	TS05	P1705_1036	Poster	Jongchan yoon	Kyungpook National University	Fabrication of Bi ₂ Te ₃ -based thermoelectric module using indium electroplating and thermocompression bonding
640	TS05	P1705_1060	Poster	Beomjin Jeong	Yonsei University	Dimethyl Sulfoxide Assisted Imprinting of Thin Organic-Inorganic Hybrid Perovskite Films
641	TS06	P1706_0204	Poster	SangSik-Lee	Korea conformity laboratory	Dermal, Eye Irritation and Skin Sensitization Study of TiO ₂ Nanomaterials
642	TS06	P1706_0205	Poster	JaeHyuck Sung	Korea Conformity Laboratories (KCL)	Subchronic inhalation toxicity study of SiO ₂ (Tetraethyl orthosilicate) in Fisher 344 rats
643	TS06	P1706_0452	Poster	Min Beom Heo	Korea Research Institute of Standards and Science	A comparison study of chemical toxicity and nanotoxicity in human primary cells and cancer cells
644	TS06	P1706_0461	Poster	Wan-Seob Cho	Dong-A University	Comparison of phagocytic effects between high aspect ratio nanomaterials
645	TS06	P1706_0486	Poster	Youn-Joo Jung	Korea Institute of Toxicology (KIT)	Toxicity of graphene oxide on aquatic and terrestrial organisms
646	TS06	P1706_0498	Poster	Jinwoo Park	Occupational Safety & Health Research Institute	A study on designing for experimental apparatus on the measurement of nanomaterials dustiness using the rotating brush device and the results
647	TS06	P1706_0529	Poster	Nandita Dasgupta	VIT University	Engineering nano-silver by novel thermal co-reduction approach and its toxicity
648	TS06	P1706_0530	Poster	Shivendu Ranjan	VIT University	Microwave-irradiation-assisted hybrid chemical approach for titanium dioxide nanoparticle synthesis: microbial and cyto-toxicological evaluation
649	TS06	P1706_0541	Poster	Jae Soon Kang	Korea Institute of Toxicology (KIT)	Alternative androgen transactivation by adsorption with DHT and ROS-related cytotoxic effects in human prostate cells exposed to silver nanoparticles
650	TS06	P1706_0598	Poster	Jongyeon Go	Dongguk University	Fabrication of AuNPs charge library for cytotoxicity evaluation
651	TS06	P1706_0611	Poster	Sanghun Kim	KIST Europe	Overview of EU legislation on nanomaterials

652	TS06	P1706_0615	Poster	young jun kim	KIST Europe	Single- and mixture toxicity of three ZnO, F2O3 and ZnS on Daphnia magna
653	TS06	P1706_0617	Poster	Song-Hwa Bae	Seoul Women's University	Development of quantitative analytical methods for nanoparticles in biological matrices
654	TS06	P1706_0625	Poster	Kim Hyejin	TO21 Co., Ltd.	Review on OECD WPMN Dossier and Endpoints for ZnONPs
655	TS06	P1706_0632	Poster	Nivedita Chatterjee	University of Seoul	Size and aspect ratio of MWCNT as critical determinant of uptake and biological stress responses
656	TS06	P1706_0653	Poster	Ga-Yun Kim	Yonsei University	NO-based anti-tumor immune responses and MR imaging of Poly(L-arginine) surface functionalized manganese oxide nanocomplex
657	TS06	P1706_0657	Poster	Eun-Woo Lee	Metabolic Regulation Research Center, Korea Research Institute of Bioscience and Biotechnology (KRIB)	Silica nanoparticles inhibit brown adipocyte differentiation via regulation of p38 phosphorylation.
658	TS06	P1706_0662	Poster	Jin Gyeong Son	Center for Nano-Bio Measurement, Korea Research Institute of Standards and Science, Daejeon 34113, K	Absolute Quantification Method of Gold Nanoparticles by Using ICP-OES
659	TS06	P1706_0677	Poster	Hyeong Jeon An	Department of Physics, POSTECH, Pohang, Gyeongbuk, 37673, South Korea	Development of tracking algorithm enables single nano-particle tracking in a living cell
660	TS06	P1706_0682	Poster	Jihye Kim	Yonsei University	Poly (aniline-co-pyrrole) polymerized Nanoregulator as Antiviral Agent against Influenza via Control of Cellular Reactive Oxygen Species

661	TS06	P1706_0685	Poster	Byong Chon Park	Korea Research Institute of Standards & Science (KRISS)	Particle analysis in nanoparticle size measurement using scanning electron microscopy
662	TS06	P1706_0707	Poster	Jeong Won Kim	Korea Research Institute of Standards and Science	VAMAS interlaboratory comparison of surface molecular layer thickness measurement on Au nanoparticle by XPS
663	TS06	P1706_0710	Poster	Soojin Kim	Korea Institute of Toxicology (KIT)	Characterization and toxicological evaluation of iron oxide nanoparticles with different surface charges
664	TS06	P1706_0715	Poster	Jeongeun Im	University of Seoul	Standardization study of nano materials dispersion method for evaluation of ecotoxicity
665	TS06	P1706_0718	Poster	Hyun Kil Shin	Yonsei University	Excavation of descriptors for development of nano-SAR model to predict cytotoxicity of metal/metal oxide nanoparticles
666	TS06	P1706_0751	Poster	Hye-Mi So	Korea Institute of Machinery and Materials (KIMM)	Dispersion and characterization of single-walled carbon nanotubes
667	TS06	P1706_0759	Poster	Hyun-Jeong Eom	Korea Research Institute of Standards and Science	Cytotoxicity and Kinetics of cellular uptake and exocytosis in hepatocyte carcinoma cell line
668	TS06	P1706_0763	Poster	Jeongun Kyung	Korea Research Institute of Standards and Science	Framework of process about NanoSafety outcomes in EU
669	TS06	P1706_0764	Poster	Sanghun Kim	KIST Europe	Implications of polarity based fractions of Pony Lake Fulvic Acid on the fate of silver nanoparticles
670	TS06	P1706_0766	Poster	Ja Young Park	Korea Research Institute of Standards and Science (KRISS)	A method to measure of the liquid suspension nanoparticle size in aerosols
671	TS06	P1706_0768	Poster	Rosa Kim	Korea Institute of Toxicology (KIT)	Uptake of nanoparticle by zebrafish embryo chorion
672	TS06	P1706_0783	Poster	Hyunpyo Jeon	KIST Europe	Introduction of Eco-PDS: An eco-friendly product design support tool for screening mixture toxicity of chemical products

673	TS06	P1706_0785	Poster	Sanghun Kim	KIST Europe	CLP Mix-Tool: A web-based estimation tool for hazard classification of mixture products under the EU CLP regulation
674	TS06	P1706_0802	Poster	Byunghoon Kang	Yonsei University	Manganese oxide inner structure and outer surface modification effect on T1 relaxivity
675	TS06	P1706_0804	Poster	Euiyeon Lee	Dongguk University	Identification of the relationship between physicochemical properties and biological effects of gold nanoparticles on cell function
676	TS06	P1706_0812	Poster	Jiyoung Jang	Yonsei University	Increased interleukin-11 and stress genes in human endothelial and human bronchial epithelial cell lines by silver nanoparticles
677	TS06	P1706_0815	Poster	Hangoo Kang	Yonsei University	Silver nanoparticles affect glucose metabolism in hepatoma cells through production of reactive oxygen species.
678	TS06	P1706_0853	Poster	Jinyoung Jeong	Korea Research Institute Bioscience and Biothchnology (KRIBB)	Toxicity effect of gold ion and microplastics in zebrafish embryo
679	TS06	P1706_0988	Poster	Min Jeong Kwak	Korea Research Institute of Standards and Science	Development of CRMs for the Nanoparticle Size Measurement
680	TS07	P1707_0038	Poster	S. V. Jadhav	Donggeui University	Seed-layer-free pulsed laser deposited Mg-doped ZnO nanorods and their pulse repetition rate dependent UV photodetection properties
681	TS07	P1707_0052	Poster	Donghwi Cho	Korea Advanced Institute of Science and Technology (KAIST)	Highly Sensitive and Stretchable Strain Sensors Based on Three-Dimensional Bicontinuous Nanoporous Electrodes for Human-Motion Detection
682	TS07	P1707_0179	Poster	Min Gao	Korea Advanced Institute of Science and Technology (KAIST)	Palladium Nanowire Network via Nanosphere Lithography for Hydrogen Sensor Application
683	TS07	P1707_0196	Poster	Imtisal Akhtar	Sejong University	Through Silicon via Imaging for 3D Integrated Circuits using MWCNT based AFM Probe
684	TS07	P1707_0235	Poster	Jae Keon Kim	Kyungpook National University	Room temperature LPG sensor using carbon nanotube yarn

685	TS07	P1707_0250	Poster	Hong Kyeong Do	Yonsei University	Micro-pillar array sensor for in-situ detection of Hg ion in complex environment
686	TS07	P1707_0260	Poster	Han Pill Song	Gachon University	Rapid colorimetric biosensor for thrombin detection using aptamer-functionalized nanoceria
687	TS07	P1707_0261	Poster	Hyoun Woo Kim	Hanyang University	Improved gas sensing properties of metal nanoparticles functionalized with CNT
688	TS07	P1707_0262	Poster	Minsoo Chung	Gachon University	Colorimetric detection of cholesterol using multi-enzymes incorporated copper nanoflowers
689	TS07	P1707_0292	Poster	Sangjin Oh	Pusan National University	A plasmon-enhanced photoluminescence immunoassay using gold nanoparticle decorated carbon nanotube for detecting the influenza virus
690	TS07	P1707_0313	Poster	Ban-Suk Park	Kwangwoon University	Wearable nanomaterial-based glucose biosensors with functionalized glucose oxidase
691	TS07	P1707_0314	Poster	Chang Min Lee	School of Advanced Materials and Engineering, Sungkyunkwan University	Effects of Sheet Morphology of MoS ₂ on NO ₂ Response for Gas Sensor Application
692	TS07	P1707_0315	Poster	Healin Im	Sungkyunkwan University	Thin-film Iron (Fe) sensor encased by anion exchange membrane (AEM) for monitoring penetration of chloride ions in mortar
693	TS07	P1707_0317	Poster	Jongtaek Lee	Hanyang University	Fabrication of gas sensor based on three dimensional single-walled carbon nanotubes networks suspended on SiO ₂ /Si pillar array
694	TS07	P1707_0336	Poster	Doo Hyung Jang	Korea Advanced Institute of Science and Technology (KAIST)	High-Resolution p-n Type Bi-Metal Oxide Semiconductor Nanowire Array as an Ultrasensitive Sensor for Volatile Organic Compounds
695	TS07	P1707_0356	Poster	Hyeong-Jun Koh	Korea Advanced Institute of Science and Technology (KAIST)	Controllable Tuning of the performance of Volatile-Organic-Compound Sensing by MoS ₂ Using Au Nanoparticle Incorporation

696	TS07	P1707_0365	Poster	Yuseon Noh	Gwangju Institute of Science and Technology (GIST)	Metal nanoclusters based fluorescence sensor for detection of pyrophosphate
697	TS07	P1707_0368	Poster	Donggu Hong	Gwangju Institute of Science and Technology (GIST)	Lateral flow immunoassay grafted electrochemiluminescence biosensor for highly sensitive C-reactive protein detection
698	TS07	P1707_0385	Poster	Manjeet Kumar	Incheon National University	Strikingly enhanced room temperature gas sensing properties of SnO ₂ -CeO ₂ based heterostructure nanocomposite Materials
699	TS07	P1707_0401	Poster	Pratigya Sharma	Chonbuk National University	Metal Oxide Integrated Carbon Aerogels based Electrochemical Sensor for Hydrogen Peroxide Sensing
700	TS07	P1707_0459	Poster	Woo Seok Lee	Inha University	Optimal Pt nanoparticle size and annealing temperature for the best sensing performance of Pt-decorated In ₂ O ₃ nanorods
701	TS07	P1707_0460	Poster	Jae Kyung Lee	Inha University	NO ₂ and CO gas sensing properties of WO ₃ nanorods functionalized with reduced graphene oxides
702	TS07	P1707_0490	Poster	Hak-Young Ahn	Korea University	Additive-doped IR transparent ZnS windows fabrication by SPS technique using mechano-chemically synthesized ZnS powders
703	TS07	P1707_0509	Poster	Yeowon Yoon	Sogang University	Hydrogel microelectromechanical systems (MEMS) resonators for pressure and humidity sensing applications
704	TS07	P1707_0510	Poster	Yoo Min Park	National NanoFab Center (NNFC)	A film-based microfluidic chip for the multiple gene amplification and its application in electrochemical analysis for food illnesses pathogen
705	TS07	P1707_0525	Poster	Yin-Chang Wei	National Chiao Tung University	The Design of High Resolution Low Temperature Polycrystalline Silicon Optical Fingerprint Sensor with 100 Nanometer Thick Absorption Layer

706	TS07	P1707_0536	Poster	Rafiq Ahmad	Chonbuk National University	Highly efficient non-enzymatic glucose sensor based on CuO modified vertically-grown ZnO nanorods on electrode
707	TS07	P1707_0548	Poster	Kiesar Sideeq Bhat	Chonbuk National University	Nozzle-jet printed flexible biosensor based field-effect transistor for high performance glucose detection
708	TS07	P1707_0607	Poster	Prof. P. S. Patil	Shivaji University	2D nanoplates of WO ₃ -GO composite as a selective NO ₂ gas sensor
709	TS07	P1707_0608	Poster	Joohyung Park	Korea University	Small molecules detecting using nanoporous resonator
710	TS07	P1707_0609	Poster	Sambhaji S. Shendage	Shivaji University	NO ₂ sensing properties of porous fibrous reticulated WO ₃ thin films
711	TS07	P1707_0610	Poster	Sambhaji S. Shendage	Shivaji University, Kolhapur M.S. India	Synthesis and characterization of hierarchical flower like ZnO microstructure for NO ₂ gas sensor application
712	TS07	P1707_0622	Poster	Bo-yeong Kim	Sungkyunkwan University	Development of stretchable electrochemical sensor platform using elastomeric micro-structured substrate
713	TS07	P1707_0623	Poster	Eun Roh	Sungkyunkwan University	All-directional stretchable pressure sensor based on PEDOT:PSS-SWCNT nanocomposite
714	TS07	P1707_0645	Poster	Sun Hyung Ha	Pusan National University	Highly stretchable multidimensional strain sensor based on strain-engineered elastomeric substrate
715	TS07	P1707_0664	Poster	Na rea Jo	Korea Research Institute of Bioscience and Biotechnology	Improved sensitivity of bio-sensor through using strong plasmonic region
716	TS07	P1707_0679	Poster	Won-Chul, Choi	Hanyang University	Development of an ion-sensitive Indium Oxide Thin Film Transistor
717	TS07	P1707_0688	Poster	Gitae Han	Hanyang University	Highly Sensitive pH Detection by In ₂ O ₃ Transistor Sensor Functionalized With 3-Aminopropyltriethoxysilane

718	TS07	P1707_0692	Poster	Kang-Hyun Kim	Pusan National University	Three-dimensionally microstructured metal nanowire network-based high-performance strain sensor
719	TS07	P1707_0701	Poster	Seok-Oh Yun	National Nonofabrication Center (NNFC)	Flexible pH sensor and system fabricated using PET film
720	TS07	P1707_0712	Poster	Jae-Hyoung Lee	Inha University	Gas sensing properties of n-SnO ₂ -p-Co ₃ O ₄ composite nanofibers
721	TS07	P1707_0734	Poster	Jun-Hyuk Kwak	Center for Advanced Meta-Materials	Fabrication of flexible piezoelectrical device using sacrificial layer
722	TS07	P1707_0744	Poster	Jae-Hun Kim	Inha University	CO detection by the synergistic effect of Au nanoparticles and core-shell nanowires
723	TS07	P1707_0756	Poster	Il-Suk Kang	National Nanofab Center	High-Resolution Transparent Capacitive Fingerprint Sensors for Mobile Security
724	TS07	P1707_0794	Poster	Le Thai Duy	Sungkyunkwan University	A Stretchable Gas Sensor based on Multilayered Fiber Network of Reduced Graphene Oxide/PolyurethaneNanohybrids
725	TS07	P1707_0811	Poster	Junhyeok Lee	Sogang University	Sharpness improved hydrogel atomic force microscope cantilevers via wettability enhanced silicon tip mold by metal deposition
726	TS07	P1707_0813	Poster	Hye Taek Oh	Hanyang University	Analyses of Dust Effect on DC Plasma and Material using Electric Probes with various Dust Dispensers
727	TS07	P1707_0814	Poster	Piyawan Leepheng	King Mongkut's Institute of Technology Ladkrabang	Molecularly Imprinted Modified Electrode for cypermethrin pesticide detection
728	TS07	P1707_0818	Poster	Kirok Kwon	Yonsei University	Continuous enrichment of airborne bacteria using Concanavalin A-coated herringbone microfluidic chip
729	TS07	P1707_0820	Poster	Iman Shackery	Yonsei University	Non-enzymetic Glucose Sensing properties of Cobalt Hydroxide on Three Dimensional Graphene
730	TS07	P1707_0828	Poster	Pramod S. Patil	Shivaji University	Indium oxide (In ₂ O ₃) cubes for gas sensing application

731	TS07	P1707_0973	Poster	Ho Young Jang	Sungkyunkwan University	Graphene coating for better cooling of soft actuator
732	TS07	P1707_0981	Poster	Ji Yeon Lee	Korea Research Institute of Bioscience & Biotechnology (KRIBB)	Conducting polymer nanotubes-based field effect transistor for in-vitro dopamine detection
733	TS07	P1707_0989	Poster	Sung-Eun Seo	Korea Research Institute of Bioscience & Biotechnology (KRIBB)	Dual-Functional TTA-UC nanohybrids for Mercury detection under Single Light Source
734	TS07	P1707_1006	Poster	Kyungho Kim	Chonnam National University	Field-effect transistor (FET)-type bacteria sensor using graphene few-layers
735	TS07	P1707_1025	Poster	Byeong-hwa Cho	Yonsei University	Sensing Characteristics for Pulsed heating Mode Driving of VOC Sensor
736	TS07	P1707_1027	Poster	Jaeman Son	Korea university	Characteristics evaluation of fiber-optic radiation sensor for proton therapeutic beam
737	TS07	P1707_1037	Poster	Seunghun Kim	Sungkyunkwan University	Nanoimprinted Metal-Polymer Hybrid Structures for Bacteria Detection
738	TS07	P1707_1059	Poster	Hien Thi Ngoc Le	Daegu University	Synthesis and Characterization of Cyclodextrin-Graphite Oxide-Carbon Nanotube Composite Films for Enhanced Electrochemical Supramolecular Recognition
739	TS07	P1707_1061	Poster	Eui Hyuk Kim	Yonsei University	Organic Light Emitting Board for Dynamic Display
740	TS08	P1708_0015	Poster	Jae Hwa Seo	Kyungpook National University	Design Optimization and Analysis of Ge/GaAs-based Gate-All-Around (GAA) Arch-shaped Tunneling Field-Effect Transistor (TFET)
741	TS08	P1708_0036	Poster	Hyunwook Jung	Yonsei University	First Principles Study on the Reaction Mechanisms of Stepwise Hydrolysis Reaction of PCl_3 and $POCl_3$
742	TS08	P1708_0099	Poster	Daehyeon Choi	Yonsei University	Solid-Electrolyte Interphase in the Spinel Cathode Exposed to Carbonate Electrolyte in Li-Ion Battery Application: An ab-initio Study

743	TS08	P1708_0121	Poster	Min Jong Noh	Korea Advanced Institute of Science and Technology (KAIST)	Density functional study of the hydrogen evolution reaction activity of cobalt-embedded C ₂ N
744	TS08	P1708_0140	Poster	Hongseok Jang	Chonbuk National University	Modeling of carbon mortar color expression using artificial neural network
745	TS08	P1708_0167	Poster	Na-Young Kim	Korea Advanced Institute of Science and Technology (KAIST)	Thermodynamic Stability and Catalytic Activity of Divacancy Complexes in Graphene: A First-Principles Study
746	TS08	P1708_0171	Poster	Min Su Cho	Kyungpook National University	Design and Analysis of Capacitorless 1T-DRAM based on Double-gate Tunneling Field Effect Transistor
747	TS08	P1708_0172	Poster	Bo Gyeong Kim	Kyungpook National University	Simulation of 1T-DRAM based on Symmetric Double-Gate Si Junctionless Transistor
748	TS08	P1708_0173	Poster	Kim, Han Seul	Korea Advanced Institute of Science and Technology (KAIST)	Development of a multi-space constrained density functional theory approach and its application to graphene-based vertical transistors
749	TS08	P1708_0227	Poster	Jeemin Hwang	Yonsei University	Synthesis of Durable Small-sized Bilayer Au@Pt Nanoparticles for High Performance PEMFC Catalysts
750	TS08	P1708_0248	Poster	Juho Lee	Korea Advanced Institute of Science and Technology (KAIST)	Silicon edge passivation as a stabilization method of zigzag graphene nanoribbons
751	TS08	P1708_0255	Poster	Hyo Seok Kim	Korea Advanced Institute of Science and Technology (KAIST)	Atomic self-interaction correction calculations of transition metal dichalcogenides multilayers and heterostructures
752	TS08	P1708_0258	Poster	Dongjae Shin	Korea Advanced Institute of Science and Technology (KAIST)	Development of magnetism in armchair graphene nanoribbons with edge functionalizations: A first-principles study
753	TS08	P1708_0281	Poster	Tae Hyung Kim	Korea Advanced Institute of Science and Technology (KAIST)	Electrical and thermal transport properties of carbon chain encapsulated within single-walled carbon nanotube

754	TS08	P1708_0283	Poster	Seong Jea Byeon	Korea Advanced Institute of Science and Technology (KAIST)	Structural and Electronic Properties of CdS Nanoplatelet: A First-principles Study
755	TS08	P1708_0301	Poster	Dongsuk Yoo	Korea Advanced Institute of Science and Technology (KAIST)	Atomic Understandings on Interfacial Structures of Spherical InP Core With Metal Chalcogenide Shell Passivation in Colloidal Core-Shell Quantum Dots
756	TS08	P1708_0322	Poster	Mi Young Jeon	Hongik University	Effect of heteroleptic dual donor and dual acceptor for Dye-sensitized solar cells
757	TS08	P1708_0323	Poster	Geon Hyeong Lee	Hongik University	Benzofurodipyrzine-based a highly efficient Thermally Activated Delayed Fluorescence Emitter
758	TS08	P1708_0383	Poster	Kuan-Ting Chen	National Chung Hsing University	Negative-Capacitance FinFET Beyond the 7nm Node
759	TS08	P1708_0384	Poster	Yu-Yan Qiu	National Chung Hsing University	Hole Mobility Calculation for Monolayer TMD Alloy Using Tight-Binding Band Structure
760	TS08	P1708_0394	Poster	Hoje Chun	Yonsei University	First principles computational study on the adsorption mechanism of organic methyl iodide gas on triethylenediamine impregnated activated carbon
761	TS08	P1708_0409	Poster	Won-Ho Lee	Gangneung-Wonju National University	Three-Dimensional Computations on Thermal Behavior between Arc Plasmas and Electrodes for Synthesizing Nanoparticles
762	TS08	P1708_0488	Poster	Seungchul Kim	Korea Institute of Science and Technology (KIST)	Simulation-experiment collaborations in dopant engineering in wide band gap solids
763	TS08	P1708_0503	Poster	Hiroshi Mizuseki	Korea Institute of Science and Technology	New Carbon Allotropes by Computational Science
764	TS08	P1708_0513	Poster	Taehun Lee	Yonsei University	First-Principles Thermodynamics Of Thin Oxide Structures On Metal Support Under Controlled Growth Conditions
765	TS08	P1708_0518	Poster	Ji-Hwan Lee	Yonsei University	The influence of cation exchange in inorganic lead-free halide perovskite: An ab initio study

766	TS08	P1708_0520	Poster	Jiwoo Lee	Yonsei University	Chemical transformation of metals and chalcogens: An experimental and theoretical investigation
767	TS08	P1708_0522	Poster	Jongmin Yun	Yonsei University	The role of polymorphism in molybdenum trioxides for light-emitting diode applications
768	TS08	P1708_0577	Poster	Ho-Young Lee	Changshin University	Cooling Characteristics by Magnetoconvection Effects for Vegetable Transformer Oil Based Magnetic Nanoparticles
769	TS08	P1708_0619	Poster	Yeon-Ho Lee	Graduate School of Mechanical Engineering, Sungkyunkwan University, Suwon 16419, Republic of Korea	Structural Characteristics of a Conical-frustum-patterned Stretchable Heater with External Force Environment
770	TS08	P1708_0636	Poster	Young-Su Lee	Korea Institute of Science and Technology (KIST)	Lithium ion conduction and defect structure of LiBH ₄
771	TS08	P1708_0646	Poster	Gijae Kang	Seoul National University	First-principles study on the origin of charge trap in amorphous Si ₃ N _{4-x}
772	TS08	P1708_0683	Poster	JaeYul Lim	University of Seoul	Mechanistic Study of Reverse-Water Gas Shift Reaction on Ni-based Alloys
773	TS08	P1708_0684	Poster	Bohyun Hwang	University of Seoul	A DFT Study of H ₂ S Dissociation on Ni and Ni-based Bimetallic Alloy Surfaces
774	TS08	P1708_0700	Poster	Kyeounghak Kim	University of Seoul	Density Functional Theory Study of Decalin Dehydrogenation to Naphthalene on Pd(111) and Pt(111)
775	TS08	P1708_0711	Poster	Minho Lee	Virtual Lab. Inc.	On-demand materials simulation platform : Materials Square
776	TS08	P1708_0735	Poster	Geonhee Lee	University of Seoul	Enhanced Activity of Transition Metal Co-doped Ceria System: A Density Functional Theory Study
777	TS08	P1708_0781	Poster	Seung Mi Lee	Korea Research Institute of Standards & Science (KRISS)	Electronic Structures of Strained InAs _x P _{1-x} by Density Functional Theory
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