

<b>Wednesday Nov.4</b>		
<b>Room A</b>		
7:00-8:00A M	Breakfast	
<b>Session: Sensors I Chair: Michihisa Koyama</b>		
8:00-8:25AM	A01: A new detection method for characterizing intermediate states of protein reactions	<b>Masahide Terazima</b> Kyoto University, Japan
8:25-8:50AM	A02: Metal ion detection by twist-induced charge transfer within a fluoro-ionophore: molecular photovoltaics and mechanics for IoT lab-in-a-phone	<b>John Canning</b> The University of Sydney, Australia
8:50-9:15AM	A03: Assay of tumor marker protein by using peptide as a new kind of recognition element	<b>Genxi Li</b> Nanjing University, China
9:15-9:40AM	A04: RNA detection in living cell with super-sensitive linear probe	<b>Hiroyuki Asanuma</b> Nagoya University, Japan
9:40-10:05 AM	A05: Microsensors and systems for water pollution monitoring	<b>Chao Bian</b> Institute of Electronics, CAS, China
10:05-10:20AM	Session Break	
<b>Session: Energy Materials I Chair: John Canning</b>		
10:20 -10:45 AM	A06: All Solid State Lithium Thin Film Batteries	<b>Ji-Won Choi</b> Korea Institute of Science and Technology (KIST), Korea
10:45-11:10 AM	A07: Computational Chemistry Study on Functional Materials for Future Energy Systems	<b>Michihisa Koyama</b> Kyushu University, Japan
11:10-11:35 AM	A08: The Application of Room-Temperature Ionic Liquids in Supercapacitors	<b>Guang Feng</b> Huazhong University of Science and Technology, China
11:35-12:00 PM	A09: Ion-Conductive Nanostructured Liquid-Crystalline Assemblies for Battery Applications	<b>Masafumi Yoshio</b> The University of Tokyo, Japan
12:00-12:25 PM	A10: Promotion Effect of Pd Nano Catalysts on Performance of SOFC Anodes Fueled by Hydrocarbons	<b>Erjia Liu</b> Nanyang Technological University, Singapore
12:30-14:00 PM	Lunch Break	

**Wednesday Nov.4**

**Room B**

**Session: Advance Processing of Materials/Nano-composites Chair: Satoshi Habuchi**

14:00-14:25 PM	B01: Artificial One-Dimensional Conductors inside Carbon Nanotubes	<b>Toshihiko Fujimori</b> Shinshu University, Japan
14:25 -14:50 PM	B02: Micro 3D Design of Polymer and Ceramics Hybrid Materials for Thermal Management System	<b>Tadachika Nakayama</b> Nagaoka University of Technology, Japan
14:50 -15:15 PM	B03: Low temperature deposition of SiO <sub>x</sub> insulator film with newly developed facing electrodes chemical vapor deposition	<b>Tokiyoshi Matsuda</b> Ryukoku University, Japan
15:40-16:00 PM	Session Break	
<b>Session: Nanostructures I Chair: Toshihiko Fujimori</b>		
16:00-16:25 PM	B04: Molecular imaging and microscopy techniques for characterizing conjugated polymer nanoparticles	<b>Satoshi Habuchi</b> King Abdullah University of Science and Technology, Kingdom of Saudi Arabia
16:25-16:50 PM	B05: Scattering of excitons from impurities and phonons in carbon nanotubes	<b>Seiji Uryu</b> Iwate University, Japan
17:30 PM	Dinner Social	

Wednesday Nov.4

Room C

**Session: Micro and Nano Engineering I** Chair: Osamu Tsutsumi

14:00-14:25 PM	C01: Holographic control of nanoparticle-distribution morphology in polymer and its applications	<b>Yasuo Tomita</b> University of Electro-Communications, Japan
14:25 -14:50 PM	C02: Fabrication of patterned nanofibers using an advanced electrospinning	<b>Young Hun Jeong</b> Kyungpook National University, Korea
14:50 -15:15 PM	C03: Supramolecular gel-based polymer materials and their applications	<b>Yutaka Kuwahara</b> Kumamoto University, Japan
15:15-15:40 PM	C04: Investigation on microstructure and tribological properties of Plasma Immersion Ion Implantation and Deposition Ti-B-N multilayer coatings	<b>Yongzhi Cao</b> Harbin Institute of Technology, China
15:40-16:00 PM	Session Break	

**Session: Micro and Nano Engineering II** Chair: Yasuo Tomita

16:00-16:25 PM	C05: Aggregation Controlled Luminescence of Liquid-Crystalline Gold Complexes	<b>Osamu Tsutsumi</b> Ritsumeikan University, Japan
16:25-16:50 PM	C06: Control of pyrene emission by silicon	<b>Masafumi Unno</b> Gunma University, Japan
16:50-17:15 PM	C07: Effective excitation of copper surface plasmon resonance and fluorescence enhancement application	<b>Kosuke Sugawa</b> Nihon University, Japan
17:30 PM	Dinner Social	

**Wednesday Nov.4****Room D****Session: Energy Materials II Chair: Guang Feng**

14:00-14:25 PM	D01: High-throughput Screening of Multivariate Metal-Organic Frameworks for CO <sub>2</sub> /Methane Separation	<b>Song Li</b> Huazhong University of Science and Technology, China
14:25 -14:50 PM	D02: Spin Seebeck Thermoelectrics	<b>Oleg Tretiakov</b> Tohoku University, Japan
14:50 -15:15 PM	D03: Advances in energy storage by integrating Silicon nanowires to Li based battery systems	<b>Matthias Grube</b> NaMLab GmbH, Germany
15:15-15:40 PM	D04: Bacteriogenic nanometric amorphous iron-based oxide material as an anode material for lithium-ion battery	<b>Hideki Hashimoto</b> Kogakuin University, Japan
15:40-16:00 PM	Session Break	
<b>Session: General I Chair: Song Li</b>		
16:00-16:25 PM	D05: Localized Manipulation of Magnetic Micro-Particles	<b>Peter C. Y. Chen</b> National University of Singapore, Singapore
16:25-16:50 PM	D06: Growth of Co-doped ZnO films under high magnetic field	<b>Guojian Li</b> Northeastern University, China
16:50-17:15 PM	D07: Continuous fabrication method of acoustic metamaterials via R2R NIL	<b>Moon Kyu Kwak</b> Kyungpook National University, Korea
17:30 PM	Dinner Social	

<b>Thursday Nov.5</b>		
<b>Room B</b>		
7:00-8:00 A M	Breakfast	
<b>Session: Nanomaterials and Biomedical Nanotechnology    Chair: Shengyong Xu</b>		
8:00-8:25 AM	B06: Preparation of chitin nanofiber from crab shell and the applications	<b>Shinsuke Ifuku</b> Tottori University, Japan
8:25-8:50 AM	B07: The effects of interfacial potential on antimicrobial propensity of ZnO nanoparticle	<b>Suman Jha</b> National Institute of Technology, India
8:50-9:15 AM	B08: Layer-by-Layer assembly of micro and nanomaterials for therapeutical applications and diagnostics	<b>Uta Reibetanz</b> University of Leipzig, Germany
9:15-9:40 AM	B09: Functional "bottom-up" metal complex nanosheets	<b>Ryota Sakamoto</b> The University of Tokyo, Japan
9:40-10:05 AM	B10: The Long and Winding Road Towards Single-Walled Carbon Nanotube Industrialization	<b>Kenji Hata</b> National Institute of Advanced Industrial Science and Technology(AIST), Japan
10:05-10:20 AM	Session Break	
<b>Session: Microfluidics and Nanofluidics    Chair: Suman Jha</b>		
10:20 -10:45 AM	B11: A Prototype of Electrostatic Micro-Tweezers in Fluid	<b>Shengyong Xu</b> Peking University, China
10:45-11:10 AM	B12: Fabrication of All-aqueous Core-shell Microfibers Based on Microfluidic Devices	<b>Shicheng Zhao</b> East China University of Science and Technology, China
11:10-11:35 AM	B13: Fluid science in extended-nano space for novel chemical devices	<b>Yutaka Kazoe</b> The University of Tokyo, Japan
12:00-13:30 PM	Lunch Break	
<b>Session: Micro and Nano Engineering III    Chair: Takeshi Tanaka</b>		
13:30 -13:55 PM	B14: Fabrication of complex three-dimensional nanostructures by controlling tip reciprocating motion frequency of atomic force microscope	<b>Yongda Yan</b> Harbin Institute of Technology, China
13:55 -14:20 PM	B15: Photocontrol of molecular alignment in liquid crystal systems for photonic and mechanical applications	<b>Atsushi Shishido</b> Tokyo Institute of Technology, Japan

14:20 -14:45 PM	B16: Effect of Multiwalled Carbon Nanotubes on Co-Mn Ferrite Prepared by Co-precipitation Technique	<b>Ghulam Murtaza</b> Bahauddin Zakariya University, Pakistan
14:45-15:45 PM	Poster Session	
<b>Session: Micro and Nano Engineering IV    Chair: Yongda Yan</b>		
15:45-16:10 PM	B17: Structure separation and application of single-wall carbon nanotubes	<b>Takeshi Tanaka</b> National Institute of Advanced Industrial Science and Technology (AIST), Japan
16:10-16:35 PM	B18: A New Approach to Monitor Cellular Internalization of Gold Nanoparticles	<b>Cristina Coman</b> University of Agricultural Sciences and Veterinary Medicine, Romania
16:35-17:00 PM	B19: Process Development for Direct 3D Writing Elastomeric Complexity	<b>Yanqiu Chen</b> Chengdu Green Energy and Green Manufacturing Technology R&D Center, China
17:30 PM	Dinner Social	

<b>Thursday Nov.5</b> <b>Room C</b>		
7:00-8:00 A M	Breakfast	
<b>Session: Nanoelectronics I Chair: Takeshi Ishiyama</b>		
8:00-8:25 AM	C08: VCRO design in 28 nm FDSOI technology using fully complementary inverters	<b>Gilles Jacquemod</b> Polytech'Nice-Sophia, France
8:25-8:50 AM	C09: Atomic and molecular effects based on dopants in silicon nanodevices	<b>Daniel Moraru</b> Shizuoka University, Japan
8:50-9:15 AM	C10: Fault Tolerance in Systems Manufactured using Deep Submicron Technologies	<b>Nor Muzlifah Mahyuddin</b> University of Sains Malaysia, Malaysia
9:15-9:40 AM	C11: Recombination Dynamics of Neutral, Charged, and Bi-excitons in Single Semiconductor Nanocrystals	<b>Toshiyuki Ihara</b> Kyoto University, Japan
10:05-10:20 AM	Session Break	
<b>Session: Nanostructures II Chair: Gilles Jacquemod</b>		
10:20 -10:45 AM	C12: Structural and optical properties of semiconductor nanowires grown by VLS method	<b>Takeshi Ishiyama</b> Toyohashi University of Technology, Japan
10:45-11:10 AM	C13: Effect of line tension on a droplet placed on a spherical substrate	<b>Masao Iwamatsu</b> Tokyo City University, Japan
11:10-11:35 AM	C14: Nanoparticle Studies using Synchrotron-based X-ray Techniques of Hard X-ray Photoelectron Spectroscopy and High-energy X-ray Scattering	<b>Osami Sakata</b> National Institute for Materials Science (NIMS), Japan
11:35-12:00 PM	C15: Engineering and scaling the spontaneous magnetization reversal and relaxation slowdown of Faraday induced magnetic relaxation in nano-sized amorphous Ni shells coated on crystalline Au nanoparticles	<b>Wen-Hsien Li</b> National Central University, Taiwan
12:00-13:30 PM	Lunch Break	
<b>Session: Smart Locomotion of Small Objects Chair: Minato Egashira</b>		

13:30 -13:55 PM	C16: Stimuli-responsive Locomotion of Smart Devices through Functionally Cooperating System	<b>Feng Shi</b> Beijing University of Chemical Technology, China
13:55 -14:20 PM	C17: Cooperative Deprotonation Induced Macroscopic Morphological Transformation of Multi-Component Molecular Assembly Actuated by Azobenzene-Photoisomerization	<b>Yoshiyuki Kageyama</b> Hokkaido University, Japan
14:20 -14:45 PM	C18: pH-responsive round-way motions of a smart device through integrating two types of chemical actuator in one smart system	<b>Lingling Yu</b> Beijing University of Chemical Technology, China
14:45-15:45 PM	Poster Session	
<b>Session: Energy Materials III Chair: Javad Mostaghimi</b>		
15:45-16:10 PM	C19: On the design of iron/fibrous nano-carbon composite electrodes for alkaline secondary batteries	<b>Minato Egashira</b> Nihon University, Japan
16:10-16:35 PM	C20: Conductive oxide cluster-surfactant hybrid crystals toward solid electrolyte	<b>Takeru Ito</b> Tokai University, Japan
16:35-17:00 PM	C21: Bulk and composite piezoelectric energy harvesters	<b>Jung-Hyuk Koh</b> Chung-Ang University, Korea
17:30 PM	Dinner Social	



<b>Thursday Nov.5</b> <b>Room D</b>		
7:00-8:00 A M	Breakfast	
<b>Session: Sensors II Chair: Zhijun Liu</b>		
8:00-8:25 AM	D08: Tailoring the plasmonic evanescent wave to detect large and small bioentities at once	<b>Ibrahim Abdulhalim</b> Ben Gurion University, Israel
8:25-8:50 AM	D09: Design and characterization of miniaturized remote current sensors	<b>Cyril Jacquemod</b> Qualiteo, France
8:50-9:15 AM	D10: Synthesis of semiconductive nanowires and their applications on flexible light-sensitive sensors	<b>Hsueh-Shih Chen</b> National Tsing Hua University, Taiwan
9:15-9:40 AM	D11: Converting a total internal reflection sensor from edge into dip detection with theoretically unlimited figure of merit	<b>Ibrahim Watad</b> Ben Gurion University of the Negev, Israel
9:40-10:05 AM	D12: High figure of merit photonic crystal nanoscale sensor for biochemical sensing	<b>Daquan Yang</b> Beijing University of Posts and Telecommunications, China
10:05-10:20 AM	Session Break	
<b>Session: General II Chair: Ibrahim Abdulhalim</b>		
10:20 -10:45 AM	D13: Broadband Nearly Perfect Absorber for Mid-infrared Applications	<b>Zhijun Liu</b> University of Electronic Science and Technology of China, China
10:45-11:10 AM	D14: Practical applications of bioinspired microstructures	<b>Hoon Eui Jeong</b> Ulsan National Institute of Science and Technology (UNIST), Korea
11:10-11:35 AM	D15: Film Growth Monitoring using Electrodeless Quartz Oscillator	<b>Nobutomo Nakamura</b> Osaka University, Japan
11:35-12:00 AM	D16: Recent Advances in the Moiré Technique for Micro- and Nanoscale Deformation Measurement of Materials	<b>Qinghua Wang</b> National Institute of Advanced Industrial Science and Technology (AIST), Japan
12:00-13:30 PM	Lunch Break	
<b>Session: Nanostructures III Chair: Daisuke Hirai</b>		

13:30 -13:55 PM	D17: The thermal stability of thin nanowires	<b>Eugene B. Gordon</b> Institute of Problems of Chemical Physics RAS, Russia
13:55 -14:20 PM	D18: Sol-gel synthesis and characterization of MA <sub>12</sub> O <sub>4</sub> (M = Zn, Mg) spinels doped, co-doped and triply doped nano-phosphor	<b>Setumo Motloung</b> University of the Free State, The Republic of South Africa
14:20 -14:45 PM	D19: Mechanical properties of silicon nanowires: The role of side surface orientation	<b>Xiao Ru Zhuo</b> Inha University, Republic of Korea
14:45-15:45 PM	Poster Session	
<b>Session: General III Chair: Eugene B. Gordon</b>		
15:45-16:10 PM	D20: Rare-metal-free magnetic materials with high coercivity	<b>Daisuke Hirai</b> The University of Tokyo, Japan
16:10-16:35 PM	D21: Luminescence of ns <sup>2</sup> -type center in oxide glasses	<b>Hirokazu Masai</b> Kyoto University, Japan
16:35-17:00 PM	D22: Electronic coupling/communication of $\pi$ -conjugated system with small gold clusters	<b>Katsuaki Konishi</b> Hokkaido University, Japan
17:00-17:25 PM	D23: Gaussian Process based intelligent sampling for measuring nano-structured surfaces on scanning probe microscopy	<b>Lijian Sun</b> Shanghai Jiao Tong University, China
17:30 PM	Dinner Social	

<b>Friday Nov.6</b>		
<b>Room B</b>		
7:00-8:00 A M	Breakfast	
<b>Session: Nanoelectronics II Chair: Shanshan Chen</b>		
8:00-8:25 AM	B20: Flexible bio-electronics applications of carbon nanotube thin films	<b>Yutaka Ohno</b> Nagoya University, Japan
8:25-8:50 AM	B21: Electrical Detection of Millimeter-Wave By Using Magnetic Materials	<b>Koki Mukaiyama</b> Tohoku University, Japan
8:50-9:15 AM	B22: CNT-based thermoelectric devices printed on film substrate	<b>Kouji Suemori</b> National Institute of Advanced Industrial Science and Technology (AIST), Japan
9:15-9:40 AM	B23: Colloidal Quantum Dots: A Path for Solid-State Lighting and Displays	<b>Wengang Bi</b> Hebei University of Technology, China
9:40-10:05 AM	B24: Atomic-scale characterization of iron nitride ultrathin films	<b>Koichiro Ienaga</b> The University of Tokyo, Japan
10:05-10:20 AM	Session Break	
<b>Session: Two-dimensional Materials Chair: Yutaka Ohno</b>		
10:20 -10:45 AM	B25: Raman Measurements of Thermal Transport in Suspended Monolayer and bilayer graphene	<b>Shanshan Chen</b> Xiamen University, China
10:45-11:10 AM	B26: Energetics and Electronic Properties of B and N Defects in Graphene Layered Materials	<b>Yoshitaka Fujimoto</b> Tokyo Institute of Technology, Japan
11:10-11:35 AM	B27: Artificial light-harvesting system in 2D porphyrin assembly	<b>Yohei Ishida</b> Hokkaido University, Japan
11:35-12:00 AM	B28: Epitaxial growth and thermoelectric property of Bi <sub>2</sub> Se <sub>3</sub> /In <sub>2</sub> Se <sub>3</sub> superlattices on mica	<b>Wuyang Ren</b> University of Electronic Science and Technology of China, China
12:00-13:30 PM	Lunch Break	
<b>Session: Micro and Nano Engineering V Chair: Nobuaki Terakado</b>		
14:00 -14:25 PM	B29: Fabrication of Ag Nanowire Transparent Conductive films by Organic Precursor Painting Reduction Method	<b>Yamato Hayashi</b> Tohoku University, Japan

14:25 -14:50 PM	B30: SiO <sub>2</sub> optical window capable of the integration of an image sensor for application of optical modulator	<b>Nguyen Van Toan</b> Tohoku University, Japan
14:50 -15:15 PM	B31: Research of High-Precision Balancing Technology for Spindle of Ultra-Precision Machine Tool	<b>Xuesen Zhao</b> Harbin Institute of Technology, China
15:15-15:30 PM	Session Break	
<b>Session: General IV Chair: Yamato Hayashi</b>		
15:30-15:55 PM	B32: Theory for Ultrafast Carrier Relaxation in the Conduction Band of Semiconductors	<b>Hiromasa Ohnishi</b> National Institute of Technology, Tsuruoka College, Japan
15:55-16:20 PM	B33: Preparation of layer-type SrCuO <sub>2</sub> by rf-magnetron sputtering and its laser-induced structure change to chain-type	<b>Nobuaki Terakado</b> Tohoku University, Japan
16:20-16:45 PM	B34: Recent development of poly(ortho-phenylene) chemistry	<b>Koichiro Mikami</b> Sagami Chemical Research Institute (SCRI), Japan
17:30 PM	Dinner Social	

<b>Friday Nov.6</b>		
<b>Room C</b>		
7:00-8:00 A M	Breakfast	
<b>Session: Energy Materials IV Chair: Tomohisa Kumagai</b>		
8:00-8:25 AM	C22: Coaxial MnO <sub>2</sub> @carbon nanofibers nanocomposites as freestanding electrodes for high-performance electrochemical capacitors	<b>Ying Yang</b> Tsinghua University, China
8:25-8:50 AM	C23: Solution Precursor Plasma Sprayed Superhydrophobic Surface	<b>Javad Mostaghimi</b> University of Toronto, Canada
8:50-9:15 AM	C24: Mechanical generation of spin current	<b>Kazuya Harii</b> Advanced Science Research Center (ASRC), Japan Atomic Energy Agency (JAEA), Japan
9:15-9:40 AM	C25: Synthesis of polyimide nano-particles and application to catalysis	<b>Yuta Nabae</b> Tokyo Institute of Technology, Japan
9:40-10:05 AM	C26: Electrode-electrolyte interface of polymer Li-ion batteries	<b>Miguel Ángel Muñoz</b> CIC energIGUNE, Spain
10:05-10:20 AM	Session Break	
<b>Session: General V Chair: Ying Yang</b>		
10:20 -10:45 AM	C27: The Effects of Guest Atomic Species in Silicon Clathrates on the Thermal Conductivity Studied by using Classical Molecular Dynamics Simulations	<b>Tomohisa Kumagai</b> CRIEPI, Japan
10:45-11:10 AM	C28: Characterization of nanomaterial suspension using pulsed field gradient nuclear magnetic resonance (PFG-NMR) for nano toxicity assessment	<b>Haruhisa Kato</b> National Institute of Advanced Industrial Science and Technology (AIST), Japan
12:00-13:30 PM	Lunch Break	
<b>Session: Energy Materials V Chair: Kohei Yamanoi</b>		
14:00 -14:25 PM	C29: A chemical approach to improving the air-stability of n-type carbon nanotubes	<b>Yoshiyuki Nonoguchi</b> Nara Institute of Science and Technology, Japan
14:25 -14:50 PM	C30: Energy and Environmental devices using Doped Tin Phosphates as a Solid State Electrolyte	<b>Masahiro Nagao</b> Nagoya University, Japan

14:50 -15:15 PM	C31: High-pressure torsion, a new route for synthesizing Mg-based hydrogen storage compounds: Experiments and DFT calculations	<b>Hoda Emami</b> Kyushu University, Japan
15:15-15:30 PM	Session Break	
<b>Session: General VI Chair: Yoshiyuki Nonoguchi</b>		
15:30-15:55 PM	C32: Radiation Resistance and Improved Response Times of ZnO Scintillator after Gamma-Ray Irradiation	<b>Kohei Yamanoi</b> Osaka University, Japan
15:55-16:20 PM	C33: Multiple-probe AFM/KFM for electrical characterization of complex network systems	<b>Yoshitaka Shingaya</b> National Institute for Materials Science (NIMS), Japan
16:20-16:45 PM	C34: Thermoelectric properties of Heusler type Fe <sub>2</sub> VAl thin-films deposited at high-temperature	<b>Satoshi Hiroi</b> Toyota Technological Institute(TTI), Japan
17:30 PM	Dinner Social	

<b>Friday Nov.6</b>		
<b>Room D</b>		
7:00-8:00 A M	Breakfast	
<b>Session: Sensors III Chair: Yi-Shao Liu</b>		
8:00-8:25 AM	D24: Immuno-opto-fluidic biochip for point-of-care transfusion safety	<b>Bruno Wacogne</b> FEMTO-ST Institute UMR CNRS, INSERM, France
8:25-8:50 AM	D25: Application of as grown carbon nanotube to gas sensor	<b>Shuhei Inoue</b> Hiroshima University, Japan
8:50-9:15 AM	D26: The opportunities and challenges of integration of silicon biosensor with polymer microfluidics	<b>Yi-Shao Liu</b> Purdue University, USA
9:15-9:40 AM	D27: Spectral and Angular Self-referenced Plasmonic Biosensor based on Thin Dielectric Grating Combined with Thin Metal Film	<b>Mohammad Awesat</b> Ben Gurion University of the Negev, Israel
9:40-10:05 AM	D28: Role of size and shape of nanostructures in the field gas-sensors	<b>Shahid Hussain</b> Chongqing University, China
10:05-10:20 AM	Session Break	
<b>Session: General VII Chair: Bruno Wacogne</b>		
10:20 -10:45 AM	D29: Interdiffusion and magnetic properties of Co/Cu/Co trilayers produced by high magnetic field annealing	<b>Kai Wang</b> Northeastern University, China
10:45-11:10 AM	D30: Effect of 1 keV ion bombardment on the optical characteristics of sapphire in VUV region	<b>Keisuke Iwano</b> Osaka University, Japan
12:00-13:30 PM	Lunch Break	
<b>Session: General VIII Chair: Seungtae Choi</b>		
14:00 -14:25 PM	D31: High-Resolution Optical Nanoimaging with Tip-Enhanced Raman Spectroscopy	<b>Prabhat Verma</b> Osaka University, Japan
14:25 -14:50 PM	D32: Introducing high gravity field to enhance infiltration of small molecules into polyelectrolyte multilayer	<b>Kun Zhao</b> Beijing University of Chemical Technology, China

14:50 -15:15 PM	D33: Converting Chemical Energy into Electricity through a Functionally Cooperating Device with Diving-Surfacing Cycles	<b>Mengmeng Song</b> Beijing University of Chemical Technology, China
15:15-15:30 PM	Session Break	
<b>Session: General IX Chair: Prabhat Verma</b>		
15:30-15:55 PM	D34: Electromechanical Design and Microfabrication of Relaxor Ferroelectric Polymer-Based Actuators	<b>Seungtae Choi</b> University of Ulsan, Korea
15:55-16:20 PM	D35: Micro- and Nanodevices for cell biology study	<b>Noritada Kaji</b> Nagoya University, Japan
16:20-16:45 PM	D36: Tribological properties of thermally stable ultra-thin organic films	<b>Hirofumi Kondo</b> Dexerials Corporation, Japan
17:30 PM	Dinner Social	



**Thursday Nov.5**

14:45-15:45PM

**Poster Session**

P1	Thermal stability enhancement of perpendicularly magnetized CoFeB/MgO-based free and double recording frames via incorporation of W layer	<b>Jin Pyo Hong</b> Hanyang University, Korea
P2	Characteristics of Small Hybrid Over Current and Temperature Limiting Device Using Shape Memory Alloy and Ceramic Positive Temperature Coefficient	<b>Min-Seok Jeon</b> Korea Testing Laboratory, Material&Components Technology Center, Korea
P3	Ultra-precision cutting of micro acute-angled V-groove arrays	<b>Bing Guo</b> Harbin Institute of Technology, China
P4	Shape Instability Life Prediction of Tempered 40Cr Steel: Damage-Coupled Crystal Plastic Probabilistic Finite Element Method	<b>Yuefeng Li</b> Harbin Institute of Technology, China
P5	Molecular dynamics simulation of high frequency vibration nanoindentation of single crystalline Cu	<b>Zhenjiang Hu</b> Harbin Institute of Technology, China
P6	Anisotropic bending behavior of gold nanowires with tilted twins	<b>Junjie Zhang</b> Harbin Institute of Technology, China
P7	Microfluidics Based-on-Chip Impinger for Airborne Particle Collection	<b>Majid Charmchi</b> University of Massachusetts Lowell, USA
P8	Investigation of Electrical Transport Properties in Heterojunctions Comprising Silicon Substrate and Nanocrystalline Iron Disilicide Films	<b>Nathaporn Promros</b> King Mongkut's Institute of Technology Ladkrabang, Thailand