

<b>Sunday Jun. 14</b>		
<b>Room A</b>		
7:00-8:00AM	Breakfast	
<b>Session: Iron and Iridium based Superconductivity I Chair: Rongkun Zheng</b>		
8:00-8:25AM	A01: Carrier doped Mott insulators: iridates vs. cuprates	<b>Seiji Yunoki</b> RIKEN, Japan
8:25-8:50AM	A02: Development of a ferromagnetic component in the superconducting state of Fe-excess $\text{Fe}_{1.12}\text{Te}_{1-x}\text{Se}_x$ by electronic charge redistribution	<b>Wen-Hsien Li</b> National Central University, Taiwan
8:50-9:15AM	A03: Origin of nematic orbital order without magnetization in FeSe	<b>Youichi Yamakawa</b> Nagoya University, Japan
9:15-9:40AM	A04: Superconductivity in the 112-type iron pnictides	<b>Minoru Nohara</b> Okayama University, Japan
9:40-10:05 AM	A05: Our progress on the growth of single crystals of 1111 system	<b>Gang Mu</b> Shanghai Institute of Microsystem and Information Technology, CAS, China
10:05-10:20AM	Session Break	
<b>Session: General I Chair: Seiji Yunoki</b>		
10:20 -10:45AM	A06: Magnetism in Co:ZnO and Co:TiO <sub>2</sub> Single Crystalline Thin Films	<b>Rongkun Zheng</b> The University of Sydney, Australia
10:45-11:10AM	A07: Effect of hole doping on the magnetic state of delafossite CuCrO <sub>2</sub>	<b>Tetsuji Okuda</b> Kagoshima University, Japan
11:10-11:35AM	A08: Novel system to study the element-specific valence electronic structure of wet materials	<b>Yoshihisa Harada</b> University of Tokyo, Japan
11:35-12:00PM	A09: ZnCoO Alloyed Magnetic Semiconductors: Gigantic Ferromagnetism and Anomalous Hall Effect at Room Temperature	<b>Guolei Liu</b> Shandong University, China
12:00-12:25 PM	A10: Giant optical activity in achiral metasurface	<b>Tun Cao</b> Dalian University of Technology, China
12:30-13:30 PM	Lunch Break	

**Sunday Jun. 14**

**Room B**

**Session: Topological Insulators I Chair: Luis Huerta**

13:30-13:55 PM	B01: High-throughput computational search of novel topological materials	<b>Oleg Yazyev</b> Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland
13:55 -14:20 PM	B02: Bulk Rashba semiconductors: Fundamentals and perspectives	<b>Mohammad Saeed Bahramy</b> The University of Tokyo, Japan
14:20 -14:45 PM	B03: Magnetic and non-magnetic dopants on the surface of topological insulators	<b>Maia G. Vergniory</b> Donostia International Physics Center, Spain
14:45 -15:10PM	B04: Engineering of topological surface states by surface- and bulk-doping	<b>Mao Ye</b> Shanghai Institute of Microsystem and Information Technology, CAS, China
15:10 -15:35PM	B05: Dynamical Cross-Correlated Response in Axionic Antiferromagnetic Insulators	<b>Akihiko Sekine</b> Tohoku University, Japan
15:35-15:55PM	Session Break	
<b>Session: Topological Insulators II Chair: Oleg Yazyev</b>		
15:55-16:20PM	B06: Optical properties of Chern-Simons systems	<b>Luis Huerta</b> Universidad de Talca, Chile
16:20-16:45PM	B07: Spin-valleytronics in topological crystalline insulators	<b>Takehito Yokoyama</b> Tokyo Institute of Technology, Japan
16:45-17:10PM	B08: Surface state of superconducting topological crystalline insulator	<b>Tatsuki Hashimoto</b> Nagoya University, Japan
17:10-17:35PM	B09: Transport properties of two dimensional topological insulators	<b>Dario Ferraro</b> Université de Genève, Switzerland
18:00PM	Dinner Social	

**Sunday Jun. 14**

**Room C**

**Session: General II Chair: Tao Hu**

13:30-13:55 PM	C01: Micro-scale magnetic characterization by nanoSQUIDs	<b>Lei Chen</b> Shanghai Institute of Microsystem and Information Technology, CAS, China
13:55 -14:20 PM	C02: Oxide plasmonic engineering for infrared applications	<b>Hiroaki Matsui</b> University of Tokyo, Japan
14:20 -14:45 PM	C03: Direct Detection of Chirality in Superfluid 3He-A	<b>Hiroki Ikegami</b> RIKEN, Japan
14:45 -15:10PM	C04: Electronic structure investigation of energy-related materials by x-ray spectroscopy	<b>Chungli Dong</b> National Synchrotron Radiation Research Center, Taiwan
15:10 -15:35PM	C05: Carrier thermoelectric transport in organic semiconductor based on hopping theory	<b>Nianduan Lu</b> Institute of Microelectronics, Chinese Academy of Sciences, China
15:35-15:55PM	Session Break	
15:55-16:20PM	C06: Design and fabrication of relaxor-ferroelectric single crystal PIMNT/epoxy 2-2 composite based array transducer	<b>Qingwen Yue</b> Shanghai Institute of Ceramics, CAS, China
<b>Session: Iron and Iridium based Superconductivity II Chair: Lei Chen</b>		
16:20-16:45PM	C07: High-Tc superconductivity preserved in half-unit-cell thick $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ with the protection of graphene	<b>Tao Hu</b> Shanghai Institute of Microsystem and Information Technology, CAS, China
16:45-17:10PM	C08: Orbital fluctuations and orders in iron-based superconductors	<b>Seiichiro Onari</b> Okayama University, Japan
17:10-17:35PM	C09: Electronic structure and the physics of BCS-BEC crossover in FeSe	<b>Shigeru Kasahara</b> Kyoto University, Japan
17:35-18:00PM	C10: Direct observation of a Fermi liquid-like normal state in Co-doped $\text{BaFe}_2\text{As}_2$	<b>Erik van Heumen</b> Van der Waals-Zeeman Institute, University of Amsterdam, The Netherlands
18:00PM	Dinner Social	

<b>Sunday Jun. 14</b>		
<b>Room D</b>		
<b>Session: Solar Cells and Photocatalysis I Chair: Yongsheng Yu</b>		
13:30-13:55 PM	D01: Novel hybrid nanostructured photocatalysts and new concept reactors for applications in energy and environment	<b>Joaquim L. Faria</b> Faculdade de Engenharia da Universidade do Porto, Portugal
13:55 -14:20 PM	D02: Bismuth based photocatalysts for indoor air purification	<b>Ying Zhou</b> State Key Laboratory of Oil and Gas Reservoir Geology and Exploitation, Southwest Petroleum University, China
14:20 -14:45 PM	D03: Influence of Nanoscale Morphology on the Charge Generation Dynamics and Photovoltaic Performance in Efficient Polymer/Polymer Blend Solar Cells	<b>Hiroaki Benten</b> Kyoto University, Japan
14:45 -15:10PM	D04: Control of spin-coating process for the optimum morphology of perovskite film to achieve high performance OPV-type perovskite solar cells	<b>Won Ho Jo</b> Seoul National University College of Engineering, Korea
15:10 -15:35PM	D05: Theoretical Study on Mechanisms of Photo-induced Charge Separation in Organic Photovoltaics	<b>Hiroyuki Tamura</b> Tohoku University, Japan
15:35-15:55PM	Session Break	
<b>Session: Nanostructured Materials I Chair: Joaquim L. Faria</b>		
15:55-16:20PM	D06: Solution-phased synthesis of hard magnetic nanoparticles with size and morphology control	<b>Yongsheng Yu</b> Harbin Institute of Technology, China
16:20-16:45PM	D07: Fabrication of the predictable nanoporous Fe-based amorphous electrodes and their catalytic properties	<b>Zhenhua Dan</b> Nanjing Tech University, China
16:45-17:10PM	D08: Plasmonic nanostructure instability by surface diffusion	<b>James W. M. Chon</b> Swinburne University of Technology, Australia
17:10-17:35PM	D09: Acoustic-excitonic coupling for dynamic manipulation of 2D MoS <sub>2</sub> nanoflakes	<b>Amgad Rezk</b> RMIT University, Australia
18:00PM	Dinner Social	

<b>Monday Jun. 15</b>		
<b>Room B</b>		
7:00-8:00AM	Breakfast	
<b>Session: Iron and Iridium based Superconductivity III Chair: Andrew Walter</b>		
8:00-8:25AM	B10: Spin-polarized STM of magnetic order in the iron chalcogenides	<b>Peter Wahl</b> University of St Andrews, UK
8:25-8:50AM	B11: Evolution of phase diagram and related change of Fermi surfaces in iron pnictide superconductor RFe(P,As)(O,F) (R=La, Pr and Nd) observed by transport and ARPES measurements	<b>Shigeki Miyasaka</b> Department of Physics, Osaka University, Japan
8:50-9:15AM	B12: Development of novel iron arsenides with arsenic network structures: 112-type $\text{Ca}_{1-x}\text{La}_x\text{FeAs}_2$ and its related materials	<b>Naoyuki Katayama</b> Department of Applied Physics, Nagoya University, Japan
9:15-9:40AM	B13: Superconductivity and nematicity in FeSe thin film	<b>Yan Zhang</b> International Center for Quantum Materials, Peking University, China
9:40-10:05 AM	B14: Orbital selective metal-insulator transition in superconducting Fe chalcogenides	<b>Zhe Wang</b> Augsburg University, Germany
10:05-10:20AM	Session Break	
<b>Session: Nanostructured Materials II Chair: Peter Wahl</b>		
10:20 -10:45AM	B15: Curved crystals as a method for investigating nano-structured surfaces and their role in electronic interactions	<b>Andrew Walter</b> NSLS II, Photon Sciences directorate, Brookhaven National Laboratory, USA
10:45-11:10AM	B16: Surface-confined polymerization	<b>Giorgio Contini</b> Istituto di Struttura della Materia, CNR, Rome, Italy
11:10-11:35AM	B17: Ab initio modeling of semiconductor alloys for nanostructure-based optoelectronic applications	<b>Pawel Scharoch</b> Wroclaw University of Technology, Poland
11:35-12:00PM	B18: Magnetic monopoles and vortex type patterns in artificial spin ice	<b>Afranio Rodrigues Pereira</b> Universidade Federal de Viçosa, Brazil
12:00-12:25 PM	B19: Emergence and mobility of monopoles in an unidirectional arrangement of magnetic nanoislands	<b>Clodoaldo Irineu Levartoski de Araujo</b> Universidade Federal de Viçosa, Brazil
12:30-14:00 PM	Lunch Break	

<b>Session: Nanostructured Materials III Chair: Xiaoyong Hu</b>		
14:00-14:25 PM	B20: Low Operation Voltage and High Aspect Ratio Transfer Mold Field Emitter Arrays with Position-Controlled Carbon Nanotube	<b>Masayuki Nakamoto</b> Shizuoka University, Japan
14:25 -14:50 PM	B21: A novel one-step route (SOX+I-) for the synthesis of highly-dispersed CoO <sub>x</sub> covered on the channel of nanospherical HMS	<b>Yan Kong</b> Nanjing Tech University, China
14:50 -15:15 PM	B22: Synthesis of metal-oxide and metal-oxide based hybrid Nanostructures	<b>Taleb Mokari</b> Ben-Gurion University of the Negev, Israel
15:15 -15:40PM	B23: Controlling the emission linewidths of site-controlled nanowire GaN quantum dots	<b>Mark Holmes</b> The University of Tokyo, Japan
15:40 -16:05PM	B24: Super-resolution Localization Microscopy on Individual Molecules Interacting with Plasmonic Nanostructures	<b>Haifeng Yuan</b> KU Leuven, Belgium
16:05-16:20PM	Session Break	
<b>Session: Nanostructured Materials IV Chair: Masayuki Nakamoto</b>		
16:20-16:45PM	B25: Nanocomposite material for optical device applications	<b>Xiaoyong Hu</b> Peking University, China
16:45-17:10PM	B26: One-pot synthesis of highly dispersed and thermally stable metallic nanoparticles in mesoporous materials	<b>Xiaoyu Yang</b> Wuhan University of Technology, China
17:10-17:35PM	B27: Energetics, Structures, and Electronic Properties of h-BN Atomic Layers: A Density-Functional Study	<b>Yoshitaka Fujimoto</b> Tokyo Institute of Technology, Japan
18:30PM	Dinner Social	

<b>Monday Jun. 15</b> <b>Room C</b>		
7:00-8:00AM	Breakfast	
<b>Session: Topological Insulators III Chair: Yuefeng Nie</b>		
8:00-8:25AM	C11: Quadratic Fermi Node in a 3D Strongly Correlated Semimetal	<b>Takeshi Kondo</b> University of Tokyo, Japan
8:25-8:50AM	C12: Design of Silicon Photonic Crystal with Z2 Topology Index	<b>Xiao Hu</b> International Center for Materials Nanoarchitectonics, National Institute for Materials Science, Japan
8:50-9:15AM	C13: Correlated topological (Kondo) insulator phase in rare earth hexaborides ReB <sub>6</sub>	<b>Nan Xu</b> Paul Scherrer Institute, Switzerland
9:15-9:40AM	C14: Study of the 2D topological insulators with large energy gap	<b>Dong Qian</b> Shanghai Jiao Tong University, China
<b>Session: Complex Oxide Heterostructures I Chair: Takeshi Kondo</b>		
9:40-10:05 AM	C15: Interplay of Spin-Orbit Interactions, Dimensionality, and Octahedral Rotations in Semimetallic SrIrO <sub>3</sub>	<b>Yuefeng Nie</b> Nanjing University, China
10:05-10:20AM	Session Break	
10:20 -10:45AM	C16: Chemical Ordering Suppresses Large-scale Electronic Phase Separation in Doped Manganites	<b>Jian Shen</b> Department of Physics, Fudan University, China
10:45-11:10AM	C17: Enhancement of perpendicular magnetic anisotropy at the interface between FeCo alloy and MgO revealed by x-ray magnetic circular dichroism	<b>Jun Okabayashi</b> University of Tokyo, Japan
11:10-11:35AM	C18: Tuning ferromagnetism in complex oxide films with capping layer	<b>Jing Xia</b> University of California, Irvine, USA
11:35-12:00PM	C19: Electro-Magnetic Properties Control of Functional Oxides by Pseudo Solid-State Electrochemistry	<b>Takayoshi Katase</b> Hokkaido University, Japan
12:30-14:00 PM	Lunch Break	

<b>Session: Topological Insulators IV Chair: Hidekazu Mukuda</b>		
14:00-14:25 PM	C20: Z2 Topology in nonsymmorphic crystalline insulators: Mobius twist in surface state	<b>Masatoshi Sato</b> Nagoya University, Japan
14:25 -14:50 PM	C21: Time- and angle-resolved two-photon photoemission study of the topological insulator Sb <sub>2</sub> Te <sub>3</sub>	<b>Kenta Kuroda</b> Philipps-Universität Marburg, Germany
14:50 -15:15 PM	C22: Incorporation of Mn into Bi <sub>2</sub> Se <sub>3</sub> three-dimensional topological insulator	<b>Agnieszka Wolos</b> Instytut Fizyki PAN, Poland
15:15 -15:40PM	C23: Characterization and transport properties in topological insulator	<b>Zhenhua Wang</b> Shenyang National Laboratory for Materials Scienc, Chinese Academy of Sciences, China
15:40 -16:05PM	C24: Electronic properties of topological defects in a chiral p-wave superconductor	<b>Adrien Bouhon</b> Institute for Theoretical Physics, Materials Theory and ETH Zurich, Uppsala University, Sweden
16:05-16:20PM	Session Break	
<b>Session: Iron and Iridium based Superconductivity IV Chair: Kenta Kuroda</b>		
16:20-16:45PM	C25: Novel phase diagram of superconductivity and antiferromagnetism in iron-pnictide superconductors	<b>Hidekazu Mukuda</b> Osaka University, Japan
16:45-17:10PM	C26: Orbital ordering and additional ultrafast minority carriers in FeSe superconductor studied by mobility spectrum analysis	<b>Yoichi Tanabe</b> Tohoku University, Japan
17:10-17:35PM	C27: Manipulation of Gap Nodes by Uniaxial Strain in Iron-Based Superconductors	<b>Jian Kang</b> University of Minnesota, USA
17:35-18:00PM	C28: Ba <sub>2</sub> IrO <sub>4</sub> : Carrier doping effect on the spin-orbit Mott state	<b>Masaaki Isobe</b> National Institute for Materials Science (NIMS), Japan
18:30PM	Dinner Social	



<b>Monday Jun. 15 Room D</b>		
7:00-8:00AM	Breakfast	
<b>Session: Solar Cells and Photocatalysis II Chair: Koichi Yamashita</b>		
8:00-8:25AM	D10: PbS colloidal quantum dot/ZnO nanowires-based solar cells yielding high efficiency in the near infrared region	<b>Takaya Kubo</b> RCAST, University of Tokyo, Japan
8:25-8:50AM	D11: Multilayerization of Organophotocatalyst Films that Efficiently Utilize Natural Sunlight in a One-pass-flow Water Purification System	<b>Keiji Nagai</b> Tokyo Institute of Technology, Japan
8:50-9:15AM	D12: Theoretical Study of Surface Complexes Between TiO <sub>2</sub> and HeteroTCNQs Showing Interfacial Charge-Transfer Transitions Designed by Redox Potential	<b>Ryota Jono</b> University of Tokyo, Japan
9:15-9:40AM	D13: A Theoretical Modelling of High-dielectric-constant Donors and Acceptors in Organic Thin Film Solar Cells	<b>Kenji Mishima</b> University of Tokyo, Japan
9:40-10:05 AM	D14: Optical properties of (GaN) <sub>1-x</sub> (ZnO) <sub>x</sub> thin films in the full compositional range synthesized by low temperature epitaxial growth	<b>Yasushi Hirose</b> University of Tokyo, Japan
10:05-10:20AM	Session Break	
<b>Session: Solar Cells and Photocatalysis III Chair: Koichi Yamashita</b>		
10:20 -10:45AM	D15: SnO <sub>2</sub> and TiO <sub>2</sub> transparent conductive thin films for solar cell application	<b>Shoichiro Nakao</b> Kanagawa Academy of Science and Technology, Japan
10:45-11:10AM	D16: A gel electrolyte with an inverse opal structure and its effects on the performance of quasi-solid-state dye-sensitized solar cells	<b>Shuai Zhang</b> Changzhou University, China
11:10-11:35AM	D17: Theoretical analyses of electronic coupling in recombination dynamics at interfaces of organic solar cells	<b>Mikiya Fujii</b> University of Tokyo, Japan
11:35-12:00PM	D18: Chemical solutions for the working and environmental issues in mixed organic-inorganic perovskites: a density functional based investigation	<b>Giacomo Giorgi</b> University of Tokyo, Japan
12:00-12:25 PM	D19: A theoretical study on charge transfer type excitons at PTB/PCBM interfaces of organic solar cells	<b>Azusa Muraoka</b> Japan Women's University, Japan
12:30-14:00 PM	Lunch Break	

<b>Session: General III Chair: Satoshi Taguchi</b>		
14:00-14:25 PM	D20: Novel chemistry of matter under high pressure	<b>Maosheng Miao</b> California State University Northridge, USA
14:25 -14:50 PM	D21: Dimensional control of designer correlated electron systems	<b>Phil King</b> University of St. Andrews, UK
14:50 -15:15 PM	D22: Electronic structures of real graphenes	<b>Chan-Cuk Hwang</b> Pohang Accelerator Laboratory (PAL), Korea
15:15 -15:40PM	D23: Sol-Gel Ink Development and Electronic Device Fabrication for Printed Electronics	<b>Tohru Sugahara</b> Osaka University, Japan
<b>Session: Microfluidics and Nanofluidics Chair: Maosheng Miao</b>		
15:40-16:05PM	D24: Gaseous flow past an array of cylinders with thin gaps and its application to Knudsen compressor	<b>Satoshi Taguchi</b> University of Electro-Communications, Japan
16:05-16:20PM	Session Break	
16:20-16:45PM	D25: Directional Liquid Flow on Programmed Asymmetric Structures	<b>Hyunsik Yoon</b> Seoul National University of Science & Technology, Korea
16:45-17:10PM	D26: Enabling Ti-based fluidics: Nanostructured TiO <sub>2</sub> on microstructures	<b>Zuruzia Abu Samah</b> Institut Teknologi Brunei, Brunei Darussalam
17:10-17:35PM	D27: Synthesis of polymeric porous membranes with advanced features using slit channel lithography	<b>Dae Kun Hwang</b> Department of Chemical Engineering, Ryerson University, Canada
18:30PM	Dinner Social	

<b>Tuesday Jun. 16</b>		
<b>Room B</b>		
7:00-8:00AM	Breakfast	
<b>Session: Iron and Iridium based Superconductivity V Chair: Ichiro Tsukada</b>		
8:00-8:25AM	B28: Orbital order in FeSe detected by angle-resolved photoemission spectroscopy	<b>Takahiro Shimojima</b> University of Tokyo, Japan
8:25-8:50AM	B29: Mixed modes and vortex dynamics in time-reversal symmetry breaking multiband superconductors	<b>Mikhail Silaev</b> Royal Institute of Technology, Sweden
8:50-9:15AM	B30: Progress in thin films and devices of iron-based layered materials	<b>Hidenori Hiramatsu</b> Tokyo Institute of Technology, Japan
9:15-9:40AM	B31: ARPES study of the electronic structure evolution in superconducting FeSe under orthorhombic distortion	<b>Timur Kim</b> Diamond Light Source, UK
<b>Session: Topological Insulators V Chair: Takahiro Shimojima</b>		
9:40-10:05 AM	B32: Weyl semimetals without inversion symmetry and parametric gap closing	<b>Shuichi Murakami</b> Tokyo Institute of Technology, Japan
10:05-10:20AM	Session Break	
10:20 -10:45AM	B33: Topological Odd Parity Superconductivity of Doped Topological Insulators	<b>Takeshi Mizushima</b> Osaka University, Japan
10:45-11:10AM	B34: Low energy electrodynamics of topological insulator thin films	<b>Liang Wu</b> Johns Hopkins University, USA
11:10-11:35AM	B35: Spin Dynamics and Scattering Mechanism in Surface and Bulk States of Topological Insulators: Hybridization and Weak Coupling Effects	<b>Alberto Crepaldi</b> Elettra-Sincrotrone Trieste S.C.p.A. , Italy
11:35-12:00PM	B36: Quantum transport of surface Dirac states in 3D topological insulator thin film $(\text{Bi}_{1-x}\text{Sb}_x)_2\text{Te}_3$	<b>Ryutaro Yoshimi</b> University of Tokyo, Japan
12:30-14:00 PM	Lunch Break	

<b>Session: Nanofabrication Chair: Bin Chen</b>		
14:00-14:25 PM	B37: An integrated MEMS O <sub>2</sub> sensor based on the nanostructured TiO <sub>2</sub> film	<b>Hairong Wang</b> Xi'an Jiaotong University, China
14:25 -14:50 PM	B38: Microstructure-controlled fabrication of electrodes of solid oxide fuel cells	<b>Keisuke Nagato</b> The University of Tokyo, Japan
14:50 -15:15 PM	B39: Metal nano patterning with pseudoplastic nanoparticles fluids	<b>Zhiyong Duan</b> Physical Engineering College, Zhengzhou University, China
15:15 -15:40PM	B40: Fabrication of nanopatterns on silicon surface by combining AFM-based scratching and RIE methods	<b>Yanquan Geng</b> Harbin Institute of Technology, China
15:40 -16:05PM	B41: Nanophotonics enabled optical memory: a new paradigm for big data storage	<b>Yaoyu Cao</b> Swinburne University of Technology, Australia
16:05-16:20PM	Session Break	
16:20-16:45PM	B42: In-situ fabrication of one-dimensional nanowires for high-performance lithium ion batteries	<b>Jiangan Wang</b> Northwestern Polytechnical University, China
<b>Session: Nanomedicine and Nanobiology Chair: Hairong Wang</b>		
16:45-17:10PM	B43: Absorption enhancement of blood for Nd:YAG laser by gold nanoparticles	<b>Bin Chen</b> Xi'an Jiaotong University, China
17:10-17:35PM	B44: Exploiting the synergies of carbon and inorganic functional nanomaterials	<b>Gerard Tobias</b> ICMAB-CSIC, Spain
17:35-18:00PM	B45: Dissipation in sub-nanometre hydration layers	<b>Liran Ma</b> Tsinghua University, China
18:00-18:25PM	B46: Production and surface engineering of Nanorubies for ultrasensitive biomolecular imaging	<b>Varun Sreenivasan</b> Macquarie University, Australia
18:30PM	Dinner Social	

<b>Tuesday Jun. 16</b>		
<b>Room C</b>		
7:00-8:00A M	Breakfast	
<b>Session: Complex Oxide Heterostructures II Chair: Sam Zhang</b>		
8:00-8:25AM	C29: Control of physical properties of functional oxides by a gate with Electric Double Layer Dielectric	<b>Arup Kumar Raychaudhuri</b> S.N.Bose National Center for Basic Sciences, India
8:25-8:50AM	C30: Charge- and strain-mediated magnetoelectric coupling in oxide film/PMN-PT heterostructures	<b>Ren-Kui Zheng</b> Shanghai Institute of Ceramics, CAS, China
8:50-9:15AM	C31: Effect of spin-orbit coupling induced by electric field in liquid-gated SrTiO <sub>3</sub> surfaces	<b>Tsutomu Nojima</b> Tohoku University, Japan
9:15-9:40AM	C32: Mesoscopic scale electron transport at the interface of perovskite oxides	<b>Xuan Gao</b> Case Western Reserve University, USA
9:40-10:05 AM	C33: Gate-tunable electrical, optical, and structural properties in VO <sub>2</sub> thin films	<b>Masaki Nakano</b> The University of Tokyo, Japan
10:05-10:20AM	Session Break	
<b>Session: Solar Cells and Photocatalysis IV Chair: Arup Kumar Raychaudhuri</b>		
10:20 -10:45AM	C34: Engineering the Nanostructured Materials for Dye-Sensitized Solar Cells and Quantum Dot Solar Cells	<b>Sam Zhang</b> Nanyang Technological University, Singapore
10:45-11:10AM	C35: Photocatalytic conversion of CO <sub>2</sub> by H <sub>2</sub> O as an electron donor	<b>Kentaro Teramura</b> Kyoto University, Japan
11:10-11:35AM	C36: PbS Quantum Dots Capped with Amorphous ZnS for Bulk Heterojunction Solar Cells	<b>Lidong Sun</b> Chongqing University, China
11:35-12:00PM	C37: Efficient flexible organic solar cells with the ITO free metal transparent electrode	<b>Chunfu Zhang</b> State Key Laboratory of Wide Band Gap Semiconductor Technology, Xidian University, China
12:30-14:00 PM	Lunch Break	

<b>Session: Defects in Electronic and Photonic Materials Chair: Ichiro Tsukada</b>		
14:00-14:25 PM	C38: The influence of defect states on electrical properties of rectifying junctions based on ZnO	<b>Tomasz Krajewski</b> Institute of Physics, Polish Academy of Sciences, Poland
14:25 -14:50 PM	C39: Oxide based resistive switching memory and it's physical mechanism	<b>Lin Chen</b> School of Microelectronics, Fudan University, China
14:50 -15:15 PM	C40: Modification of ZnO surfaces by W segregation and their gas sensing properties	<b>Taku Suzuki</b> National Institute for Materials Science, Japan
15:15 -15:40 PM	C41: Comparison of paramagnetic defects in Oxide semiconductors evaluated by ESR	<b>Tokiyoshi Matsuda</b> Ryukoku University, Japan
<b>Session: Iron and Iridium based Superconductivity VI Chair: Tomasz Krajewski</b>		
15:40-16:05PM	C42: TEM observation of iron-chalcogenide superconductor thin films	<b>Ichiro Tsukada</b> Central Research Institute of Electric Power Industry, Japan
16:05-16:20PM	Session Break	
16:20-16:45PM	C43: Vortex-induced electronic modulations in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+d}$ probed by STM/STS	<b>Tadashi Machida</b> RIKEN Center for Emergent Matter Science, Japan
16:45-17:10PM	C44: Nematic effect on spin excitations of $\text{FeSe}_{0.5}\text{Te}_{0.5}$ and FeSe	<b>Shin-ichi Shamoto</b> ASRC, Japan Atomic Energy Agency, Japan
17:10-17:25PM	C45: Superconductivity in transition metal alloys: multi-orbital view on iron-pnictides and cuprates	<b>Hirofumi Sakakibara</b> RIKEN, Japan
18:30PM	Dinner Social	

<b>Tuesday Jun. 16</b>		
<b>Room D</b>		
7:00-8:00AM	Breakfast	
<b>Session: General IV Chair: Sunao Shimizu</b>		
8:00-8:25AM	D28: Luminescence enhancement in cholesteric liquid crystalline microcapsules	<b>Yoshiaki Uchida</b> Osaka University, Japan
8:25-8:50AM	D29: Magneto-Quantum Transport in Ti-Cleaned Single-Layer Graphene	<b>Akira Fujimoto</b> Osaka Institute of Technology, Japan
8:50-9:15AM	D30: p-type ZnO films and ZnO homojunction for novel electronic applications	<b>Dmytro Snigurenko</b> Institute of Physics, Polish Academy of Sciences, Warsaw, Poland
9:15-9:40AM	D31: Encapsulation of Aconitine in self-assembled licorice protein nanoparticles reduces the toxicity in vivo	<b>Lijing Ke</b> Shanghai Institutes for Biological Sciences of Chinese Academy of Sciences-Zhejiang Gongshang University, China
<b>Session: Nanostructured Materials V Chair: Akira Fujimoto</b>		
9:40-10:05AM	D32: Field effect control of thermoelectric transport in low dimensional electrons	<b>Sunao Shimizu</b> RIKEN Center for Emergent Matter Science (CEMS), Japan
10:05-10:20AM	Session Break	
10:20-10:45AM	D33: Chemical and mechanical nanoengineering of (epitaxial) graphene	<b>Marko Kralj</b> Institute of Physics, Croatia
10:45-11:10AM	D34: Enhancement of reaction area of molybdenum trioxide nanorods via sol-gel driven method and its gas sensing property	<b>Shuren Cong</b> Osaka University, Japan
11:10-11:35AM	D35: Nanowires Alignment on Micrometer Scale Hydrophilic Patterns by Blade-coating Method	<b>Yong He</b> Kyushu University, Japan
12:30-14:00PM	Lunch Break	