

<b>Tuesday Jun. 21</b>		
<b>Room A</b>		
7:00-7:50AM	Breakfast	
7:50-8:00AM	Opening Ceremony	
<b>Session: Iron and Iridium based Superconductivity I Chair: Bruno Bêche</b>		
8:00-8:25AM	A01: First-principles study on Iron-based Ladder Compound BaFe <sub>2</sub> S <sub>3</sub>	<b>Ryotaro Arita</b> RIKEN, Japan
8:25-8:50AM	A02: Observation of nematic electronic structure in FeSe	<b>Takahiro Shimojima</b> University of Tokyo, Japan
8:50-9:15AM	A03: Finite wavevector nematic fluctuations an Fe-based superconductors BaFe <sub>2-x</sub> CoxAs <sub>2</sub> revealed by measurements of long-wavelength acoustic phonons	<b>Dmitry Reznik</b> University of Colorado - Boulder, USA
9:15-9:40AM	A04: Electronic correlation effects in iron-pnictides: studied by ARPES	<b>Ming Shi</b> Paul Scherrer Institute, Switzerland
9:40-10:05AM	A05: Pressure Effects of FeSe by Novel Diamond Anvil Cell with Metallic Diamond Electrodes	<b>Yoshihiko Takano</b> NIMS, Japan
10:05-10:20AM	Session Break	
<b>Session: Nanostructured Materials I Chair: Takahiro Shimojima</b>		
10:20 -10:45AM	A06: On the Macroscopic Description of Optical Stress in Metamaterials	<b>Ng Tsz Fai Jack</b> Hong Kong Baptist University, Hong Kong
10:45-11:10AM	A07: A novel deep-UV polymer for nanophotonics: waveguides structures towards cascade of serial micro-resonators for ultra-sensitive detections of glucose	<b>Bruno Bêche</b> Université Rennes 1, campus Beaulieu, France
11:10-11:35AM	A08: Harmonic Structure Design for High Performance Structural Materials	<b>Kei Ameyama</b> Ritsumeikan University, Japan
11:35-12:00PM	A09: Development of Ni based nano-oxyhydrides for hydrogen production	<b>Louise Jalowiecki-Duhamel</b> University of Lille Nord de France, France
12:00-12:25 PM	A10: Plasmonics meets microfluidics: Evaporation induced nanorod assembly on patterned substrates	<b>Stefan Kooij</b> University of Twente, Netherlands
12:30-13:30 PM	Lunch Break	

**Tuesday Jun. 21**

**Room B**

**Session: Complex Oxide Heterostructures I Chair: Hidekazu Mukuda**

13:30-13:55PM	B01: Complexity in multicomponent oxide nanocatalysts	<b>Marco Piumetti</b> Polytechnic University of Turin, Italy
13:55 -14:20PM	B02: Zinc oxide based heterostructures-as highly selective UV detectors	<b>Ewa Przewdzicka</b> Institute of Physics, PAS, Poland
14:20 -14:45PM	B03: Thermal enhancement of magnetic order and giant spin-phonon coupling in multiferroic BiCoO <sub>3</sub>	<b>Claudio Cazorla</b> University of New South Wales, Australia
14:45 -15:10PM	B04: Anisotropic Transport in $\alpha$ -Al <sub>2</sub> O <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures	<b>Dirk Fuchs</b> KIT, Germany
15:10 -15:30PM	Session Break	
<b>Session: Iron and Iridium based Superconductivity II Chair: Ewa Przewdzicka</b>		
15:30 -15:55PM	B05: Origin of the doping dependence of T <sub>c</sub> in the 1111 iron based superconductors	<b>Hidetomo Usui</b> Osaka University, Japan
15:55-16:20PM	B06: Multiple Antiferromagnetic Spin Fluctuations and Novel Evolution of T <sub>c</sub> in La1111 compounds	<b>Hidekazu Mukuda</b> Osaka University, Japan
16:20-16:45PM	B07: Superconducting Critical Current Density and Inhomogeneity in Ce-based oxypnictide	<b>Shen V. Chong</b> Victoria University of Wellington, New Zealand
16:45-17:10PM	B08: Microstructures of the vicinity of film and substrate interface of iron-based superconductors	<b>Ataru Ichinose</b> Electric Power Engineering Research Laboratory, Japan
17:10-17:35PM	B09: Critical Charge Fluctuations and In-gap Collective Modes in Iron Pnictide Superconductors	<b>Verner Kristian Thorsmølle</b> University of California, San Diego, USA
18:00PM	Dinner Social	

**Tuesday Jun. 21**

**Room C**

**Session: Nanostructured Materials II Chair: Silke Behrens**

13:30-13:55PM	C01: Origin of the Anomalous Mass Enhancement of the Subbands in Strongly-Correlated Oxide Quantum Well Structures	<b>Masaki Kobayashi</b> KEK IMSS Photon Factory, Japan
13:55 -14:20PM	C02: Defect formation and optical properties of coaxial GaP/GaNp core/shell Nanowires	<b>Jan Eric Stehr</b> Linköping University, Sweden
14:20 -14:45PM	C03: p-type ZnO and nanostructured ZnO-based homojunctions grown at low temperature	<b>Elżbieta Guziewicz</b> Institute of Physics, PAS, Poland
14:45 -15:10PM	C04: Graphene decorated with colloidal nanoparticles: new opportunities for functional hybrid materials	<b>Chiara Ingrosso</b> Institute for Physical and Chemical Processes, CNR-IPCF, Italy
15:10 -15:30PM	Session Break	
<b>Session: Solar Cells and Photocatalysis I Chair: Pradeep Risikrishna Varadwaj</b>		
15:30 -15:55PM	C05: Scalable photoactive layers for printable organic solar cells	<b>Won Suk Shin</b> KRICT, Korea
15:55-16:20PM	C06: Charge separation pathway on electronically excited states of PCBM/P3HT interfaces	<b>Mikiya Fujii</b> The University of Tokyo, Japan
16:20-16:45PM	C07: Applied Surface Science to Improve Conversion Efficiencies of Crystalline Si Solar Cells	<b>Hikaru Kobayashi</b> Osaka University, Japan
16:45-17:10PM	C08: Enhanced photoelectrochemical properties of V-substituted Fe <sub>2</sub> O <sub>3</sub> thin films fabricated by pulsed laser deposition	<b>Munetoshi Seki</b> The University of Tokyo, Japan
17:10-17:35PM	C09: Epitaxial lift off (ELO) thin film InAs/GaAs quantum dot solar cell: current status and strategies toward 30% efficiency	<b>Tomah Sogabe</b> The University of Electro-Communications, Japan
18:00PM	Dinner Social	

**Tuesday Jun. 21**

**Room D**

**Session: Topological Insulator I Chair: Mauro Cambiaso**

13:55 -14:20PM	D01: Van der Waals epitaxial growth of High quality Bi <sub>2-x</sub> Sb <sub>x</sub> Te <sub>3-y</sub> Se <sub>y</sub> ultrathin film grown by the catalyst free physical vapor deposition	<b>Yoichi Tanabe</b> Tohoku University, Japan
14:20 -14:45PM	D02: Time-Reversal Breaking Weyl Fermions In Magnetic Heuslers	<b>Maia Garcia Vergniory</b> Donostia International Physics Center, Spain
14:45 -15:10PM	D03: Quantum transport in HgTe/CdTe topological insulator structures	<b>Candice Thomas</b> CEA-LETI, MINATEC Campus, France
15:10-15:30PM	Session Break	
<b>Session: General I Chair: Yoichi Tanabe</b>		
15:30 -15:55PM	D04: Interfaces and defects in bulk thermoelectric nanocomposites of layered chalcogenides	<b>Ajay Soni</b> Indian Institute of Technology Mandi, India
15:55-16:20PM	D05: Analysis of interface magnetism by transmission electron microscopy	<b>Yasukazu Murakami</b> Kyushu University, Japan
16:20-16:45PM	D06: Spark plasma sintered MgB <sub>2</sub> superconductor	<b>Peter Badica</b> National Institute of Materials Physics, Romania
16:45-17:10PM	D07: Magnetism and transport in alumina-templated hybrid nanowires	<b>Torsten Pietsch</b> University of Konstanz, Germany
17:10-17:35PM	D08: Semiconductor solid solutions and heterostructures for visible-light photocatalysis: From design to applications	<b>Judy Hart</b> The University of New South Wales, Australia
18:00PM	Dinner Social	

<b>Wednesday Jun. 22</b>		
<b>Room B</b>		
7:00-8:00AM	Breakfast	
<b>Session: Iron and Iridium based Superconductivity III Chair: Veronique Brouet</b>		
8:00-8:25AM	B10: Low temperature Scanning Tunnelling Microscopy investigation of FeTe and FeSe <sub>0.5</sub> Te <sub>0.5</sub> thin films grown on CaF <sub>2</sub> (100) single crystal	<b>Andrea Gerbi</b> SPIN Institute, CNR , Italy
8:25-8:50AM	B11: Electric Double-Layer Transistors Using Iron-Based Layered Compounds	<b>Hidenori Hiramatsu</b> Tokyo Institute of Technology, Japan
8:50-9:15AM	B12: High-pressure study on high-quality single-crystalline FeSe	<b>Yuta Mizukami</b> The University of Tokyo, Japan
9:15-9:40AM	B13: Theory of S <sup>++</sup> Wave Superconductivity in FeSe: Beyond the Migdal-Eliashberg Approximation	<b>Hiroshi Kontani</b> Nagoya University, Japan
9:40-10:05AM	B14: A local-probe perspective on iron-based superconductors: recent results	<b>Toni Shiroka</b> ETH Zürich Höggerberg, Switzerland
10:05-10:20AM	Session Break	
<b>Session: Nanostructured Materials III Chair: Agnieszka Cizman</b>		
10:20 -10:45AM	B15: Nanostructured inorganic particles for thermally conductive polymer composites	<b>Young-Kuk Kim</b> KIMS, Korea
10:45-11:10AM	B16: Diverse microstructures and properties of gold clusters in subnanometer regime	<b>Katsuaki Konishi</b> Hokkaido University, Japan
11:10-11:35AM	B17: Understanding and Controlling Atomic Layer Deposited TiO <sub>2</sub> on Carbon-based Nanomaterials: Synthesis, Structure and Interface	<b>Yucheng Zhang</b> EMPA, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
11:35-12:00PM	B18: On the quest for intrinsic spin lifetimes in bottom-up nanofabricated graphene spin-valves	<b>Bernd Beschoten</b> Physikalisches Institut IIA, RWTH Aachen, Germany
12:00-12:25PM	B19: Thermal properties of graphene filled polymer composites	<b>Shu-Lin Bai</b> Peking University, China
12:30-13:30PM	Lunch Break	

<b>Session: Complex Oxide Heterostructures II Chair: Per Eklund</b>		
13:30-13:55PM	B20: The influence of dielectric interlayer on the electrical behavior of ZnO-based rectifying junctions – modeling and experimental studies	<b>Tomasz Krajewski</b> Institute of Physics, PAS, Poland
13:55 -14:20PM	B21: Self-consistent hybrid functional calculations: Implications for structural and electronic properties of oxide semiconductors	<b>Daniel Fritsch</b> University of Bath, UK
14:20 -14:45PM	B22: Band alignment at corundum-structure $\alpha$ -(Al <sub>x</sub> Ga <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub> / $\alpha$ -Ga <sub>2</sub> O <sub>3</sub> heterostructures	<b>Takayuki Uchida</b> Kyoto University, Japan
14:45-15:35PM	<b>Poster &amp; Session Break</b>	
<b>Session: Nanostructured Materials IV Chair: Tomasz Krajewski</b>		
15:35-16:00PM	B23: Novel thin film nitrides for thermoelectric applications	<b>Per Eklund</b> Linköping University, Sweden
16:00-16:25PM	B24: Precision synthesis and catalysis of coinage metal clusters	<b>Tatsuya Tsukuda</b> The University of Tokyo, Japan
16:25-16:50PM	B25: Novel magnetic porous glass-based ferroelectric-ferromagnetic nanocomposites	<b>Agnieszka Cizman</b> Wrocław University of Technology, Poland
16:50-17:15PM	B26: SERS substrates based on plasmonic nano-fingers on nanowires	<b>Yashna Sharma</b> Indian Institute of Technology, India
18:00PM	Dinner Social	

<b>Wednesday Jun. 22</b>		
<b>Room C</b>		
7:00-8:00AM	Breakfast	
<b>Session: Nanostructured Materials V Chair: Labbé Christophe</b>		
8:00-8:25AM	C10: Fabrication of Gold Core-Satellite Nanostructures and Their Sensing Properties	<b>Kensuke Akamatsu</b> Konan University, Japan
8:25-8:50AM	C11: Morphology Effect on Metal Nanoparticle/Organic Polymer Composite	<b>Hidehiro Sakurai</b> Osaka University, Japan
8:50-9:15AM	C12: Functional plasmonic and hybrid nanoparticles for advanced light manipulation	<b>Dmitry Zuev</b> ITMO University, Russia
9:15-9:40AM	C13: Carbonaceous films composed of simultaneously grown carbon nanotubes and multi-layer nanocrystalline graphene for electronic and optoelectronic applications	<b>Oleg Kononenko</b> Institute of Microelectronics Technology and High Purity Materials, RAS, Russia
9:40-10:05AM	C14: Boosting the Er <sup>3+</sup> photoluminescence in silica by synergistic effect of plasmonic and pre-plasmonic nanostructures	<b>Boris Kalinic</b> University of Padova, Italy
10:05-10:20AM	Session Break	
<b>Session: Solar Cells and Photocatalysis II Chair: Pradeep Risikrishna Varadwaj</b>		
10:20 -10:45AM	C15: Energy conversion and storage by photocromic nano particles	<b>Shuhei Inoue</b> Hiroshima University, Japan
10:45-11:10AM	C16: Integrated silicon thin films performing an high efficiency down-converter systems for commercial Si-based Solar Cells	<b>Labbé Christophe</b> CIMAP, France
11:10-11:35AM	C17: Carbon, Nitrogen Doped TiO <sub>2</sub> Macro/Mesoporous Monoliths with High Visible Light Absorption for Photocatalytic Wastewater Treatment	<b>Paolo Boscaro</b> Institut Charles Gerhardt, ENSCM, France
11:35-12:00PM	C18: Device properties of solar cells with embedded nanostructures	<b>Takeshi Noda</b> National Institute for Materials Science, Japan
12:00-12:25PM	C19: Silicon-Singlet Fission Parallel Tandem Solar Cells	<b>Bruno Ehrler</b> FOM Institute AMOLF, The Netherlands
12:25-12:50PM	C20: Enhanced visible light photocatalytic activity of CdS nano dot/TiO <sub>2</sub> nano rods	<b>Zhengjun Zhang</b> Tsinghua University, China
12:50-14:00 PM	Lunch Break	

<b>Session: Nanofabrication Chair: Vicki J. Keast</b>		
14:00-14:25PM	C21: Nanofabrication with Ultra-Nanocrystalline Diamond	<b>Nicolaie Moldovan</b> Advanced Diamond Technologies, USA
14:25 -14:50PM	C22: Molecular Dynamics simulation of focused Ga ion beam induced nanoscale damage on silicon and its annealing recovery mechanism	<b>Zongwei Xu</b> Tianjin University, China
14:50-15:35PM	<b>Poster &amp; Session Break</b>	
15:35-16:00PM	C23: Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> +d doping change and photoresist-free patterning by means of X-ray nanoprobe	<b>Marco Truccato</b> University of Torino, Italy
16:00-16:25PM	C24: Inorganic oxide nanoparticles : influence of the crystalline size on the optical properties	<b>Manuel Gaudon</b> Université de Bordeaux, ICMCB-CNRS, France
16:25-16:50PM	C25: Large scale fabrication of well ordered spatially and dimensionally controlled inorganic oxides and Si nanopatterns on substrate	<b>Tandra Ghoshal</b> University College Cork, Ireland
16:50-17:15PM	C26: Novel methods of fabricating plasmonic nanostructures	<b>Anuj Dhawan</b> Indian Institute of Technology, India
17:15-17:40PM	C27: Mechanistic Investigation of Planar and Kinked Oxide Nanowires	<b>Tao Wu</b> KAUST, Kingdom of Saudi Arabia
18:00PM	Dinner Social	



<b>Wednesday Jun. 22</b>		
<b>Room D</b>		
7:00-8:00AM	Breakfast	
<b>Session: Solar Cells and Photocatalysis III Chair: Mikiya Fujii</b>		
8:00-8:25AM	D09: Computational Investigation on the Stability Issues of Organic-Inorganic Hybrid Perovskite Solar Cells	<b>Ki-Ha Hong</b> Hanbat National University, Korea
8:25-8:50AM	D10: Designing Organic-Inorganic Photovoltaic Materials using Methylammonium Lead Halide Perovskites for Applications in Solar Cells: Unraveling the Importance of Ultra-Strong Hydrogen Bonding Interactions	<b>Pradeep Risikrishna Varadwaj</b> The University of Tokyo, Japan
8:50-9:15AM	D11: Optimization of BiVO <sub>4</sub> -based electrodes for a solar-driven water-splitting device	<b>Simelys Hernandez</b> Politecnico di Torino, Italy
9:15-9:40AM	D12: A Theoretical Modelling of High-dielectric-constant Donors and Acceptors Based on Periodic Boundary Condition Calculations	<b>Kenji Mishima</b> The University of Tokyo, Japan
9:40-10:05 AM	D13: Enhancement of carrier collection in GaInNAs:Sb solar cells	<b>Naoya Miyashita</b> The University of Tokyo, Japan
10:05-10:20AM	Session Break	
<b>Session: General II Chair: Torsten Pietsch</b>		
10:20 -10:45AM	D14: In situ X-ray Absorption Spectroscopy Investigation of Transition Metal Doped $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> for Solar Water Splitting	<b>Ying Rui Lu</b> National Chiao Tung University, Taiwan
10:45-11:10AM	D15: Evaluation and Development of new oxide semiconductor	<b>Tokiyoshi Matsuda</b> Ryukoku University, Japan
11:10-11:35AM	D16: PLA-b-PEG/magnetite hyperthermic agent prepared by Ugi Four Component Condensation	<b>Fernando Gomes</b> Universidade Federal de Rio de Janeiro, Brasil
11:35-12:00PM	D17: Molecular theory of solvation: A multiscale modeling insight into structure and effective interactions in nanomaterials and nanosystems	<b>Andriy Kovalenko</b> University of Alberta, Canada
12:00-12:25PM	D18: Spin polarization of spin-polarized Dirac-cone surface state at W(110): Influence of linear and circular polarized light	<b>Koji Miyamoto</b> Hiroshima University, Japan
12:30-13:30PM	Lunch Break	

<b>Session: Topological Insulator II Chair: Milind N. Kunchur</b>		
13:30-13:55PM	D19: Spin-pumping on a disordered surface of a topological insulator	<b>Katsuhisa Taguchi</b> Nagoya University, Japan
13:55 -14:20PM	D20: $\theta$ -films optics	<b>Luis Huerta</b> Universidad de Talca, Chile
14:20 -14:45PM	D21: Dirac fermion dynamics in the topological insulators (Sb <sub>1-x</sub> Bix) <sub>2</sub> Te <sub>3</sub>	<b>Kazuki Sumida</b> Hiroshima University, Japan
14:45-15:35PM	<b>Poster &amp; Session Break</b>	
<b>Session: Materials for power generation Chair: Etienne Puyoo</b>		
15:35-16:00PM	D22: Carbon-based catalysts for oxygen reduction reaction in fuel cells	<b>EunAe Cho</b> KAIST, Korea
16:00-16:25PM	D23: Novel Pt-free nanostructured carbon materials with activity in the oxygen reduction reaction for fundamental studies and applications	<b>Paula E. Colavita</b> Trinity College Dublin, Ireland
18:00PM	Dinner Social	

<b>Thursday Jun. 23</b>		
<b>Room B</b>		
7:00-8:25AM	Breakfast	
<b>Session: Iron and Iridium based Superconductivity IV Chair: Shin-ichi Shamoto</b>		
8:25-8:50AM	B27: Superconducting gap structure in CeCu <sub>2</sub> Si <sub>2</sub> and similarities to Fe-based superconductors	<b>Hiroaki Ikeda</b> Ritsumeikan University, Japan
8:50-9:15AM	B28: Anomalous low-energy excitation induced by magnetic impurity in optical conductivity of iron based superconductor	<b>Shigeki Miyasaka</b> Osaka University, Japan
9:15-9:40AM	B29: Orbital-dependent Fermi Surface shrinking as a fingerprint of nematicity in FeSe	<b>Veronique Brouet</b> Université Paris Sud, France
9:40-10:05AM	B30: Thermoelectric properties of Iron-based superconductors	<b>Federico Caglieris</b> University of Genova and CNR-SPIN Institute, Italy
10:05-10:20AM	Session Break	
<b>Session: Iron and Iridium based Superconductivity V Chair: Shigeki Miyasaka</b>		
10:20 -10:45AM	B31: Pressure-induced superconductivity and magnetic fluctuations in CrAs and comparison with Fe-based superconductors	<b>Hisashi Kotegawa</b> Kobe University, Japan
10:45-11:10AM	B32: Neutron-scattering study of the dynamical spin susceptibility in FeSe	<b>Shin-ichi Shamoto</b> Advanced Science Research Center, JAEA, Japan
11:10-11:35AM	B33: Suppression of phase separation and enhanced superconducting transition temperature in FeSe <sub>1-x</sub> Te <sub>x</sub> thin films	<b>Yoshinori Imai</b> University of Tokyo, Japan
11:35-12:00PM	B34: Polarization-Dependent ARPES Study across Antiferromagnetic-Superconducting Phase Boundary of Ba(Fe <sub>1-x</sub> Cox) <sub>2</sub> As <sub>2</sub>	<b>Hitoshi Takita</b> Hiroshima University, Japan
12:00-13:30PM	Lunch Break	
<b>Session: Iron and Iridium based Superconductivity VI Chair: Eun Gook Moon</b>		
13:30-13:55 PM	B35: STM/STS observations on the Iron chalcogenide Fe (Se,Te) and FeTe ~Nano stripe structures~	<b>Akira Sugimoto</b> Hiroshima University, Japan

13:55 -14:20 PM	B36: NMR study on iron-based superconductor LaFeAsO <sub>1-x</sub> H <sub>x</sub> under a pressure of 3.0 GPa	<b>Naoki Fujiwara</b> Kyoto University, Japan
14:20 -14:45PM	B37: Flux Flow of Iron-based Superconductors	<b>Tatsunori Okada</b> University of Tokyo, Japan
14:45 -15:10PM	B38: Nematicity and magnetism in FeSe and other families of Fe-based superconductors	<b>Youichi Yamakawa</b> Nagoya University, Japan
15:10-16:30PM	Session Break	
<b>Session: Iron and Iridium based Superconductivity VII Chair: Naoki Fujiwara</b>		
15:30 -15:55PM	B39: Origin of spin-orbital liquid state in a close J=0 iridate Ba <sub>3</sub> ZnIr <sub>2</sub> O <sub>9</sub>	<b>Sugata Ray</b> Indian Association for the Cultivation of Science, India
15:55-16:20PM	B40: Topological Phase Transitions in Line-nodal Superconductors	<b>Eun Gook Moon</b> KAIST, Korea
16:20-16:45PM	B41: Multiple Dispersion kinks in High-T <sub>c</sub> Cuprate Superconductor	<b>Hiroaki Anzai</b> Osaka Prefecture University, Japan
16:45-17:10PM	B42: Unusual Fermi surface reconstruction in '122' Fe-based superconductor	<b>Kalobaran Maiti</b> Tata Institute of Fundamental Research, India
17:10-17:35PM	B43: Superconductivity in Weyl Semimetal Candidate MoTe <sub>2</sub>	<b>Yanpeng Qi</b> Max Planck Institute for Chemical Physics of Solids, Germany
18:00PM	Dinner Social	

<b>Thursday Jun. 23</b>		
<b>Room C</b>		
7:00-8:25AM	Breakfast	
<b>Session: Nanostructured Materials VI Chair: Mato Knez</b>		
8:25-8:50AM	C28: Applications of electron spectroscopy and density functional theory to nanoplasmonic materials	<b>Vicki J. Keast</b> The University of Newcastle, Australia
8:50-9:15AM	C29: Transparent Magnetics Based on Iron Borate	<b>Janis Kliava</b> Université de Bordeaux, France
9:15-9:40AM	C30: Unveiling the mechanism of compressive deformation of bcc nanopillar through atomistic simulations	<b>Amlan Dutta</b> S. N. Bose National Centre for Basic Sciences, India
9:40-10:05AM	C31: SERS-based biosensor for rapid, label-free, and reproducible detection of cancer biomarkers	<b>Anna Chiara De Luca</b> Institute of Protein Biochemistry, CNR, Italy
10:05-10:20AM	Session Break	
<b>Session: Nanostructured Materials VII Chair: Janis Kliava</b>		
10:20 -10:45AM	C32: Synthesis and Properties of Functional Magnetic Hybrid Materials	<b>Silke Behrens</b> Karlsruhe Institute of Technology, Germany
10:45-11:10AM	C33: Synthesis of Functional Nanostructures by Atomic Layer Deposition	<b>Mato Knez</b> CIC nanoGUNE Consolider, Spain
11:10-11:35AM	C34: Vacuum Nanostructured Field Emitters for Power Conversion Devices	<b>Masayuki Nakamoto</b> Shizuoka University, Japan
11:35-12:00PM	C35: Exfoliation of reduced graphene oxide and nanoscale mapping of electrical conduction in graphene flakes network using conductive AFM	<b>Dodji Amouzou</b> Université catholique de Louvain, Belgium
12:00-13:30PM	Lunch Break	
<b>Session: General III Chair: Tokiyoshi Matsuda</b>		
13:30-13:55 PM	C36: Phosphorus doping of graphite and its applications as energy materials	<b>Iwao Shimoyama</b> Material Science Research Center, JAEA, Japan
13:55 -14:20 PM	C37: Charge distribution in complex $\text{CaFe}_{2+n}\text{O}_{4+n}$ ferrites and structural evolution versus temperature	<b>Denis Pelloquin</b> Laboratoire CRISMAT, CNRS, France

14:20 -14:45PM	C38: The role of interface atomic and electronic structure in half metallic heterostructures	<b>Vlado Lazarov</b> University of York, UK
14:45 -15:10PM	C39: On the irreversible transformation of Ti/TiOx/Ti junctions under electrical stress	<b>Etienne Puyoo</b> Institut des Nanotechnologies de Lyon / INSA-Lyon, France
15:10-15:35PM	C40: Photocatalytic water splitting and CO2 reduction with decorated CdS nanorods	<b>Jacek K. Stolarczyk</b> Ludwig-Maximilians-University Munich, Germany
18:00PM	Dinner Social	

<b>Thursday Jun. 23</b>		
<b>Room D</b>		
7:00-8:25AM	Breakfast	
<b>Session: Topological Insulator III Chair: Aijun Du</b>		
8:25-8:50AM	D24: Metal-insulator transition in a two dimensional Mott insulator by electric field-effect	<b>Kazunori Ueno</b> The University of Tokyo, Japan
8:50-9:15AM	D25: Epitaxial Lead Tin Chalcogenide Topological Crystalline Insulators Controlled by Doping	<b>Gunther Springholz</b> Johannes Kepler Universität, Austria
9:15-9:40AM	D26: Green's functions for the electrodynamics of topological insulators: formalities and applications	<b>Mauro Cambiaso</b> Universidad Andrés Bello, Chile
9:40-10:05AM	D27: Electronic and topological properties of topological insulator thin films from GW calculations	<b>Tobias Förster</b> The University of Münster, Germany
10:05-10:20AM	Session Break	
<b>Session: Topological Insulator IV Chair: Gunther Springholz</b>		
10:20 -10:45AM	D28: Superconductivity in topological half-Heusler compounds	<b>Anne de Visser</b> University of Amsterdam, The Netherlands
10:45-11:10AM	D29: First-principles Prediction of 2D Topological Insulators: New 1T' MoS2 Phase and Diamond-like GaBi Bilayer	<b>Aijun Du</b> Queensland University of Technology, Australia
11:10-11:35AM	D30: Superconductivity at a topological-insulator/chalcogenide interface probed through current-induced depairing	<b>Milind N. Kunchur</b> University of South Carolina, USA
11:35-12:00PM	D31: Weakly-coupled quasi-1D helical modes in disordered 3D topological insulator quantum wires	<b>Joseph Dufouleur</b> IFW Dresden, Germany
12:00-13:30PM	Lunch Break	
<b>Session: Topological Insulator V Chair: Wei-Feng Tsai</b>		
13:30-13:55 PM	D32: p-wave superconductivity, helical supercurrents and Majorana modes in topological insulators	<b>Grigory Tkachov</b> Wuerzburg University, Germany
13:55 -14:20 PM	D33: Manipulating Topological Phases in Honeycomb Structure	<b>Feng-Chuan Chuang</b> National Sun Yat-Sen University, Taiwan

14:20 -14:45 PM	D34: Transition-metal oxide topological Dirac semimetals	<b>Gang Li</b> Technical University of Vienna, Austria
14:45 -15:10PM	D35: Towards the understanding of the origin of charge-current-induced spin voltage signals in the topological insulator Bi <sub>2</sub> Se <sub>3</sub>	<b>Eric De Vries</b> University of Groningen, Netherlands
15:10-16:30PM	Session Break	
<b>Session: Topological Insulator VI Chair: Feng-Chuan Chuang</b>		
15:30 -15:55PM	D36: Chiral p-wave superconductivity in Sb(111) thin films close to Van Hove singularities	<b>Wei-Feng Tsai</b> National University of Singapore, Singapore
15:55-16:20PM	D37: Surface-dependent hybridization and protection of topological states on Bi-chalcogenide materials	<b>Andrew Weber</b> Paul Scherrer Institute, Switzerland
16:20-16:45PM	D38: Surface state photoelectrons in topological insulators: Green's function approach	<b>David Schmeltzer</b> The City College of New York, USA
16:45-17:10PM	D39: Observing Zeeman effect of topological surface state with distinct material dependence	<b>Yingshuang Fu</b> Huazhong University of Science and Technology, China
17:10-17:35PM	D40: Spin-based phenomena in topological insulators: From the ground state to dynamics	<b>Jaime Sánchez-Barriga</b> Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Germany
18:00PM	Dinner Social	



**Wednesday Jun. 22**  
**Poster session (14:45-15:35PM)**

P01	Improvement of Dispersion Characteristics of the Carbon Nano Tubes Ink for Printed Electronic Applications	<b>Jaehyeong Lee</b> Sungkyunkwan University, Korea
P02	Characterization of Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> Thin Films Prepared from Nanoparticles Ink for Low Cost Solar Cell Fabrication	<b>Minha Kim</b> Sungkyunkwan University, Korea
P03	Epitaxial N-TiO <sub>2</sub> Films for Photocatalytic Applications	<b>Andrew Breeson</b> University College London, UK
P04	Defect properties of ZnO nanowires	<b>Jan Eric Stehr</b> Linköping University, Sweden
P05	Spintronic transport in armchair graphene nanoribbon with ferromagnetic electrodes: half-metallic properties	<b>Hongmei Liu</b> Linyi University, China
P06	Strain effect on electronic structure and corrosion potential in $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> Films	<b>Chen Li</b> Linyi University, China
P07	Effects of electron correlation, electron-phonon coupling and spin-orbit coupling on the isovalent Pd substituted superconductor SrPt <sub>3</sub> P	<b>Gang Mu</b> Shanghai Institute of Microsystem and Information Technology, CAS, China
P08	Solvothermally Synthesised Tin Phosphide-based Anodes for Sodium-Ion Battery	<b>Kyu-Nam Jung</b> Energy Efficiency Research Division, KIER, Korea
P09	Effects of Bi <sub>2</sub> O <sub>3</sub> Addition on the Microstructure and Electrochemical Properties of Lithium-Ion Conductive Electrolyte Li <sub>1.4</sub> Al <sub>0.4</sub> Ti <sub>1.6</sub> (PO <sub>4</sub> ) <sub>3</sub> for All-Solid-State Battery	<b>Jong-Won Lee</b> New and Renewable Energy Research Division, KIER, Korea
P10	Direct observation of nano-scale phase transition of GeSbTe thin films by Atomic Force Microscope	<b>Ling Xu</b> Nanjing University, China
P11	Plasmon resonance-induced photoluminescence enhancement of CdTe/CdS quantum dots thin films	<b>Yao Yu</b> Nanjing University, China
P12	Effect of Ag Addition on Pinning Mechanism and Superconducting Properties of K Substituted Bi-2212 Bulk Ceramics	<b>Onur Nane</b> Hakkari University, Turkey
P13	Structural and Magnetic Properties of K <sub>1-x</sub> NaxFe <sub>2-y</sub> Se <sub>2</sub>	<b>Bekir Özçelik</b> Çukurova University, Turkey

