

Chaleston Ballroom B, Red Rock, Las Vegas, USA			
Thursday April 21 8:00-8:30	Opening: From Villa Conferences to EMN Meeting	<b>Zhiming M. Wang</b>	
<b>Thursday April 21</b>	<b>VCIAN: Carbon Nanostructures I</b>	<b>Chair: Mark C. Hersam</b>	
8:30-9:00	Terahertz light amplification by stimulated emission of radiation in optically pumped graphene	<b>Taiichi Otsuji</b>	Tohoku University, Japan
9:00-9:30	Band-gap opening in graphene through functionalization with fluorine	<b>Monica F. Craciun</b>	University of Exeter, UK
9:30-10:00	Molecular interaction with epitaxial graphene on SiC(0001)	<b>Han Huang</b>	National University of Singapore, Singapore
10:00-10:15	Molecular interaction with epitaxial graphene on SiC(0001)		
10:00-10:15	<b>Session Break</b>		
<b>Thursday April 21</b>	<b>VCIAN: Carbon Nanostructures II</b>	<b>Chair: Monica F. Craciun</b>	
10:15-10:45	Chemical methods for enhancing the performance of carbon nanoelectronic materials	<b>Mark C. Hersam</b>	Northwestern University, USA
10:45-11:15	Simulation of Graphene Electronic Devices	<b>Jing Guo</b>	University of Florida, USA
11:15-11:30	The Effect of Molecules with a Sulfuric Group on Carbon Nanotubes	<b>Nicolas A. Cordero</b>	University of Burgos, Spain
11:30-14:00	<b>Lunch Break</b>		
<b>Thursday April 21</b>	<b>VCIAN: THz</b>	<b>Chair: Taiichi Otsuji</b>	
14:00-14:30	Quantum cascade lasers with integrated nonlinearity for differencefrequency (THz) and second harmonic (near infrared) generation	<b>Markus C. Amann</b>	Technische Universitaet Muenchen, Germany
14:30-15:00	The Realization of Comb-FTIR at THz frequencies using a NbN Hot-Electron Bolometer	<b>Walter Buchwald</b>	Air Force Research Laboratory/RYHC, USA
15:00-15:15	<b>Session Break</b>		
<b>Thursday April 21</b>	<b>VCIAN: Hybrid Nanostructures</b>	<b>Chair: Vladimir Fomin</b>	
15:15-15:45	Optical phenomena in hybrid nanostructures: Exciton-plasmon interaction, Chirality, and Circular Dichroism	<b>Alexander Govorov</b>	Ohio University, USA
15:45-16:15	Hybrid polyfluorene-based nanocomposite superstructures for near-infraredoptoelectronics	<b>Sylvain Cloutier</b>	University of Delaware, USA
16:15-16:45	The Quantum Theory of the Nonlinear Fano Effect in the Hybrid metal-semiconductor nanostructures	<b>Wei Zhang</b>	IAPCM, China
16:45-17:00	<b>Session Break</b>		
<b>Thursday April 21</b>	<b>VCIAN: Carbon Nanostructures III</b>	<b>Chair: Jing Guo</b>	
17:00-17:30	Applications of Multi-functional Carbon Nanotubes as Base Template	<b>Daniel Chua</b>	National University of Singapore, Singapore
17:30-18:00	Transition metal catalyzed unzipping of carbon nanotubes into narrow graphene ribbons and design of mechanically robust tri-wing graphene nanoribbons	<b>Jinlan Wang</b>	Southeast University, China
18:00-18:15	Radial breathing vibration of double-walled carbon nanotubes subjected to axial pressure	<b>Xiaowen Lei</b>	Shinshu University, Japan

<b>Chaleston Ballroom B, Red Rock, Las Vegas, USA</b>			
<b>Friday April 22</b>	<b>VCIAN: Nanomembranes</b>	<b>Chair: Zhiming M. Wang</b>	
9:00-9:30 (keynote)	Semiconductor Nanomembranes: Sheet Science and Technology	<b>Max G. Lagally</b>	University of Wisconsin-Madison, USA
9:30-10:00 (keynote)	Nanomembranes in good shape	<b>Oliver G. Schmidt</b>	IFW Dresden, Germany
10:00-10:15	<b>Session Break</b>		
<b>Friday April 22</b>	<b>VCIAN: Surface Nanostructures</b>	<b>Chair: Max G. Lagally</b>	
10:15-10:45	Self-organizing Atomic Chains	<b>Harold J.W. Zandvliet</b>	University of Twente, The Netherlands
10:45-11:15	Interaction of organic semiconductor nanostructures	<b>Christian Teichert</b>	University of Leoben, Austria
11:15-11:45	Strain Dependence of Microscopic Parameters and its Effect on Ordering during Epitaxial Growth	<b>Christian Ratsch</b>	University of California, Los Angeles, USA
11:45-12:15	Atomistic view of InAs quantum dot self-assembly during MBE growth	<b>Shiro Tsukamoto</b>	Anan National College of Technology, Japan
12:15-13:30	<b>Lunch Break</b>		
<b>Friday April 22</b>	<b>VCIAN: Patterned Growth</b>	<b>Chair: Christian Ratsch</b>	
13:30-14:00	Semiconductor Quantum Wire-Dot Systems Grown on Patterned Substrates: Structure, Properties and Applications in Nanophotonics	<b>Eli Kapon</b>	Swiss Federal Institute of Technology, Lausanne, Switzerland
14:00-14:30	Site-control of In(Ga)As Quantum Dots using Patterned Substrates, Nano-Jet Probe, and Metal Mask	<b>Nobuhiko Ozaki</b>	Wakayama University, Japan
14:30-15:00	Surface templates fabricated using a focused ion beam for lateral positioning of nanostructures on Si substrates	<b>Jennifer Gray</b>	University of Pittsburgh, USA
15:00-15:15	<b>Session Break</b>		
<b>Friday April 22</b>	<b>VCIAN: Self-Assembly</b>	<b>Chair: Oliver G. Schmidt</b>	
15:00-15:30	Self-Assembled Si and Ge Nanostructures on Atomic Straight Si Steps	<b>Takeharu Sekiguchi</b>	Keio University, Japan
15:45-16:00	STMBE observation of InAs growth in nano hole structures on GaAs(001)	<b>Takashi Toujyou</b>	Anan National College of Technology, Japan
16:00-16:30	Si/Ge quantum dot crystals with small periodicities	<b>Detlev Grützmacher</b>	Institute for Semiconductor Nanoelectronics, Forschungszentrum Jülich, Germany
16:30-17:00	Ge quantum dot arrays grown by ultrahigh vacuum molecular beam epitaxy on the Si (001) surface: Nucleation, morphology and CMOS compatibility	<b>Vladimir A. Yuryev</b>	A.M. Prokhorov General Phys Inst, RAS, Russia
17:00-17:15	<b>Session Break</b>		
<b>Friday April 22</b>	<b>VCIAN: Quantum Dots I</b>	<b>Chair: Jennifer Gray</b>	
17:15-17:45	Atomic structure of submonolayer grown InAs/GaAs quantum dots	<b>Holger Eisele</b>	Technische Universität Berlin, Germany
17:45-18:15	Grazing Incidence X-ray Diffraction Measurements of InAs/GaAs Quantum Dots Using Equipment Available for Laboratories	<b>Kohki Mukai</b>	Yokohama National University, Japan
18:15-18:30	Statistical Comparison of Quantum Dot Nucleation Sites and Surface Reconstruction Domains on InAs/GaAs(001) Wetting Layer	<b>Tomoya Konishi</b>	Anan National College of Technology, Japan
	<b>Conference Banquet</b>		

<b>Chaleston Ballroom B, Red Rock, Las Vegas, USA</b>			
<b>Saturday April 23</b>	<b>VCIAN: Nanowires I</b>	<b>Chair: Eli Kapon</b>	
8:00-8:30	Electronic instabilities, fluctuations, and transport in epitaxial silicide nanowires	<b>Hanno H. Weitering</b>	University of Tennessee/ORNL, USA
8:30-9:00	Functional Imaging of Semiconducting and Oxide Nanowires	<b>Lincoln J. Lauhon</b>	Northwestern University, USA
9:00-9:30	Ga-assisted MBE grown GaAs nanowires and related quantum heterostructures for solar applications	<b>Anna Fontcuberta i Morral</b>	École Polytechnique Fédérale de Lausanne, Switzerland
9:30-10:00	MBE growth of InAs/GaAs Core-Shell Nanowires	<b>Hadas Shtrikman</b>	Weizmann Institute of Science, Israel
10:00-10:15	<b>Session Break</b>		
<b>Saturday April 23</b>	<b>VCIAN: Nanowires II</b>	<b>Chair: Lincoln J. Lauhon</b>	
10:15-10:45	Direct atomic scale imaging and spectroscopy of the interior and exterior of III-V nanowires	<b>Anders Mikkelsen</b>	Lund University, Sweden
10:45-11:15	Bridging wide bandgap nanowires for ultraviolet light detection	<b>Jean-Jacques Delaunay</b>	The University of Tokyo, Japan
11:15-11:45	Nanowires in Novel Device Concepts in the fields of photonics, optoelectronics as well as for sensing: Materials optimization based on simulations and nano-characterization	<b>Silke Christiansen</b>	Max-Planck-Inst for the Science of Light, Germany
11:45-13:30	<b>Lunch Break</b>		
<b>Saturday April 23</b>	<b>VCIAN: Nanowires III</b>	<b>Chair: Hadas Shtrikman</b>	
13:30-14:00	Crystal phase engineering in III-As(-Sb) single nanowires	<b>Philippe Caroff</b>	IEMN, UMR CNRS 8520, Lille1 University, France
14:00-14:30	Coexistence of Vapor-Liquid-Solid and Vapor-Solid-Solid Growth Modes in Pd-Assisted InAs Nanowires	<b>Stefan Heun</b>	NEST, Istituto Nanoscienze-CNR and Scuola Normale Superiore, Italy
14:30-15:00	Progress in site- & density-controlled growth and properties of catalyst-free vertical group-III-arsenide nanowire arrays on Si	<b>Gregor Koblmüller</b>	Technische Universität München, Germany
15:00-15:30	MBE-grown magnetic/non-magnetic heterostructured nanowires	<b>Philip I.K. Sou</b>	Hong Kong University of Science and Technology, Hong Kong
<b>Sunday April 24</b>	<b>VCIAN: Nanowires IV</b>	<b>Chair: Philip I.K. Sou</b>	
10:15-10:45	Spatially arranged ZnO nanowires: developing technologies for future applications	<b>Margit Zacharias</b>	University of Freiburg, Germany
10:45-11:15	Stochastic Resonance and Related Phenomena in GaAs-based Nanowire FET Networks	<b>Seiya Kasai</b>	Hokkaido University, Japan
11:15-11:45	Morphological control of Si nanowire arrays and their applications in solar cells and fate regulations of human mesenchymal stem cells	<b>Ta-Jen Yen</b>	National Tsing Hua University, Taiwan
11:45-12:15	Nanowires for sensing and emission of molecules in biological environments	<b>Magnus Willander</b>	Linköping University, Norrköping, Sweden

Chaleston Ballroom C, Red Rock, Las Vegas, USA			
<b>Thursday April 21</b>	<b>VCIAN: Nanocrystals</b>	<b>Chair: Alexander Govorov</b>	
9:00-9:30	New Quantum Dot Designs and Formation Processes for Active Optoelectronic Devices	<b>Johann Peter Reithmaier</b>	INA, Universitaet Kassel, Germany
9:30-10:00	Mode manipulation and hybridization in resonantly coupled spherical microcavities with semiconductor nanocrystals and J-aggregates	<b>Yury Rakovich</b>	Centro Mixto CSIC-UPV/EHU, Spain
10:00-10:15	Single-molecule spectroscopy study of interfacial charge separation and energy transfer in hybrid systems based on semiconductor quantum dots, fullerenes and conjugated polymers	<b>Mircea Cotlet</b>	Brookhaven National Laboratory, USA
10:15-10:30	<b>Session Break</b>		
<b>Thursday April 21</b>	<b>VCIAN: Nano Wires V</b>	<b>Chair: Johann Peter Reithmaier</b>	
10:30-11:00	Nanophotonics with Plasmonics and Nanowires: Applications to Subwavelength Lasers and Novel Solar Cells	<b>Cun-Zheng Ning</b>	Arizona State University, USA
11:00-11:30	Multifunctional semiconductor nanowire array: wettability control and solar energy conversion	<b>Kijung Yong</b>	POSTECH, South Korea
11:00-12:00	One-Dimensional Phase-Change Nanowires for Memory Application	<b>Xuhui (Jeff) Sun</b>	Soochow University, China
12:00-14:00	<b>Lunch Break</b>		
<b>Thursday April 21</b>	<b>VCIAN: Photovoltaic</b>	<b>Chair: Cun-Zheng Ning</b>	
14:00-14:30	Exploiting interactions among metal, dielectric, and semiconductor nanostructures for photovoltaic devices	<b>Edward T. Yu</b>	The University of Texas at Austin, USA
14:30-15:00	Enhancing solar energy to electricity conversion through nanostructured surfaces	<b>Anastassios Mavrokefalos</b>	Massachusetts Institute of Technology, USA
15:00-15:15	<b>Session Break</b>		
<b>Thursday April 21</b>	<b>VCIAN: Electrons in Nano</b>	<b>Chair: Edward T. Yu</b>	
15:15-15:45	Atom devices based on single-dopants in silicon nanostructures	<b>Michiharu Tabe</b>	Shizuoka University, Japan
15:45-16:15	Donor based quantum dots and single donors in silicon	<b>Michelle Simmons</b>	University of New South Wales, Australia
16:15-16:45	Hybrid Quantum Dots	<b>Clemens Rössler</b>	ETH Zurich, Switzerland
16:45-17:15	Hot electrons on the nanoscale: An electron jet pump and the transition from two to one dimensional scattering	<b>Stefan Ludwig</b>	Ludwig-Maximilians-Universität, Germany
17:15-17:30	<b>Session Break</b>		
<b>Thursday April 21</b>	<b>VCIAN: Magnetics and Spin</b>	<b>Chair: Stefan Ludwig</b>	
17:30-18:00	Mesoscale modelling of complex magnetic nanomaterials	<b>Richard Evans</b>	University of York, UK
18:00-18:30	Structural and magnetic properties of Fe-based nanostructures	<b>Jean-Marc Greneche</b>	Universite du Maine, France
18:30-19:00	Donor Spins in Silicon: Spin Control and Single Spin Readout	<b>Hans Hübl</b>	Walther-Meissner-Institut, Germany
19:00-19:30 (Impact Talk)	Impact of Korean Industries on Nanotechnology Commercialization	<b>Hanjo Lim</b>	Ajou University, Suwon Gyeonggi, South Korea

<b>Chaleston Ballroom C, Red Rock, Las Vegas, USA</b>			
<b>Friday April 22</b>	<b>VCIAN: Light-Matter</b>	<b>Chair: Yong Zhang</b>	
8:15-8:45	Ultrastrong light-matter coupling with intersubband polariton dots	<b>Yanko Todorov</b>	Université Paris Diderot, France
8:45-9:15	Control of Photon Emission Processes in Semiconductor Nanostructures	<b>Ikuo Suemune</b>	Hokkaido University, Japan
9:15-9:45	Properties of Nano-cones Formed on a Surface of Semiconductors by Laser Radiation: Quantum Confinement effect of Electrons, Phonons and Excitons	<b>Arturs Medvids</b>	Riga Technical University, Latvia
9:45-10:15	Tunable Exciton Relaxation in Coupled Quantum Dots	<b>Eric A. Stinaff</b>	Ohio University, USA
10:15-10:30	<b>Session Break</b>		
<b>Friday April 22</b>	<b>VCIAN: Nanoparticles and Atomic Forces</b>	<b>Chair: Curtis R. Taylor</b>	
10:30-11:00	Brittle-Ductile Transition and Order Formation in Assemblies of Polymer-Grafted Nanoparticle Systems	<b>Michael R. Bockstaller</b>	Carnegie Mellon University, USA
11:00-11:30	Bi-magnetic Core Shell nanoparticles	<b>Marta Estrader</b>	Institut català de Nanotecnologia, Spain
11:30-12:00	Nanoporous silica shapes as a result of self-assembly of nanoparticle seeds	<b>Igor Sokolov</b>	Clarkson University, USA
12:00-12:30	How to Sense Atomic Forces	<b>Franz J. Giessibl</b>	University of Regensburg, Germany
12:30-13:30	<b>Lunch Break</b>		
<b>Friday April 22</b>	<b>VCIAN: Oxide</b>	<b>Chair: Marta Estrader</b>	
13:30-14:00	Transparent Electronics: from n- to p-type oxide thin film transistors	<b>Elvira Fortunato</b>	FCT-Universidade Nova de Lisboa, Portugal
14:00-14:30	Low Temperature Physical Synthesis of ZnO Nanostructures	<b>Curtis R. Taylor</b>	University of Florida, USA
14:30-15:00	Ferrimagnetic $\text{Fe}_x\text{Co}_{(2-x)}\text{O}_4$ nanostructures embedded in highly ordered antiferromagnetic $\text{Co}_3\text{O}_4$ mesoporous templates	<b>Albero López Ortega</b>	Universitat Autònoma de Barcelona, Spain
15:00-15:15	The phenomena of phonon confinement, phonon splitting and electron transport in an ensemble of $ \text{V}_2\text{O}_5 \text{VO}_2 $ bi-layered and $\text{VO}_2@ \text{V}_2\text{O}_5 $ core-shell nano-ribbons	<b>Bonex Wakufwa Mwakikunga</b>	CSIR- National Laser Centre, South Africa
15:15-15:30	Photoluminescence and Photo-catalytic Activity of Synthesized Nanocrystals	<b>H.S.Bhatti</b>	Punjabi University, India
15:30-15:45	Ag-catalyzed ultrathin single-crystal ZnO nanobelts and field emission property	<b>XING Guozhong</b>	Nanyang Technological University, Singapore
	<b>Conference Banquet</b>		

<b>Chaleston Ballroom C, Red Rock, Las Vegas, USA</b>			
<b>Saturday April 23</b>	<b>VCIAN: Semiconductor Nanostructures</b>	<b>Chair: Eva Monroy</b>	
8:00-8:30	Optically Probing Spin-Split Bands in Semiconducting Nanostructures	<b>Christopher Stanton</b>	University of Florida, USA
8:30-9:00	Advanced quantum dot structures with manageable photoelectron kinetics	<b>Vladimir Mitin</b>	University at Buffalo, USA
9:00-9:30	Electron localization and the Aharonov-Bohm effect	<b>Vladimir Fomin</b>	IFW-Dresden, Germany
9:30-10:00	Nanoscale Engineering of Electron Interactions	<b>Andrei Sergeev</b>	University at Buffalo, USA
10:00-10:15	Modelling and investigation of optoelectronic properties of isolated and coupled ternary III-As nanostructures	<b>Oliver Marquardt</b>	Tyndall National Institute, Ireland
10:15-10:30	<b>Session Break</b>		
<b>Saturday April 23</b>	<b>VCIAN: Quantum Dots II</b>	<b>Chair: Andrei Sergeev</b>	
10:30-11:00	III-N quantum dots: Growth, performance and new applications	<b>Eva Monroy</b>	CEA-Grenoble, France
11:00-11:30	Many body effects and the role of the carrier distribution in InAs/GaAs quantum dot laser	<b>Peter Smowton</b>	Cardiff University, United Kingdom
11:30-12:00	Engineering novel spin functionality for a single charge confined in a quantum dot molecule	<b>Weiwen Liu</b>	University of Delaware, USA
12:00-12:15	Isotropic and anisotropic biaxial strain-tuning of single semiconductor quantum dots	<b>Johannes D. Plumhof</b>	IFW Dresden, Germany
12:15-13:30	<b>Lunch Break</b>		
<b>Saturday April 23</b>	<b>VCIAN: Biomedical and Photovoltaic Applications</b>	<b>Chair: Igor Sokolov</b>	
13:30-14:00	Characterization and biocompatibility of magnetic nanoparticles for biomedical applications	<b>Asashi Tomitaka</b>	Yokohama National University, Japan
14:00-14:30	Nanostructural Devices for Biomolecule Detection	<b>Fu-Hsiang Ko</b>	National Chiao Tung University, Taiwan
14:30-15:00	Future prospect of magnetic nanoparticles in biomedical field	<b>Yuko Ichiyangi</b>	Yokohama National University, Japan
15:00-15:30	Nanostructured Thin Films for Organic Thin Film Transistors and Photovoltaic Devices	<b>Jian-Bin Xu</b>	The Chinese University of Hong Kong, Hong Kong
<b>Sunday April 24</b>	<b>VCIAN: Plasmons and Metals</b>	<b>Chair: Daniel Schaadt</b>	
8:45-9:15	Plasmonic waveguide-cavity systems for manipulating light at the nanoscale	<b>Georgios Veronis</b>	Louisiana State University, USA
9:15-9:30	Effect of surface plasmons on waveguide and light harvesting	<b>Shengli Zou</b>	University of Central Florida, USA
9:30-9:45	Black and colored metals	<b>Chunlei Guo</b>	Uni of Rochester, USA
9:45-10:00	<b>Session Break</b>		
<b>Sunday April 24</b>	<b>VCIAN: Nano and Energy</b>	<b>Chair: Shengli Zou</b>	
10:00-10:30	Nanoparticles for efficiency enhancement in plasmonic solar cells	<b>Daniel Schaadt</b>	Karlsruhe Institute of Technology, Germany
10:30-11:00	Design and fabrication of ZnO-based type-II heterostructures for photovoltaic applications	<b>Yong Zhang</b>	University of North Carolina at Charlotte, USA
11:00-11:30	Passivation of Nanostructured TiO <sub>2</sub> Interfaces with a Multifunctional PEG-Based Oligomeric Co-adsorbent in Dye-Sensitized Solar Cells	<b>Yong Soo Kang</b>	Hanyang University, Korea
11:30-12:00	Fuel Cell Manufacturing and Commercialization Risks: The promise of Nanotechnology	<b>Slobodan Petrovic</b>	Oregon Institute of Technology, USA

<b>Chaleston Ballroom D, Red Rock, Las Vegas, USA</b>			
<b>Saturday April 23</b>			
<b>VCIAN: Growth and Characterization I</b>		<b>Chair: Katsuhiko Ariga</b>	
8:30-9:00	Growth and characterization of GaN-based dilute magnetic semiconductors and their nanostructures	<b>Shigehiko Hasegawa</b>	Osaka University, Japan
9:00-9:30	Quantum phase transition in superconductor nanocylinders	<b>Alexander Palevski</b>	Tel Aviv University, Israel
9:30-10:00	Electrical properties of C60 delta-doped GaAs, AlGaAs layers	<b>Jiro Nishinaga</b>	Waseda University, Japan
10:00-10:15	Initial growth of MnAs on GaAs (110) and (001)	<b>Motoi Hirayama</b>	Anan National College of Technology, Japan
10:15-10:30	<b>Session Break</b>		
<b>Saturday April 23</b>			
<b>VCIAN: Growth and Characterization II</b>		<b>Chair: Shigehiko Hasegawa</b>	
10:30-11:00	Novel supramolecular way for access to nanotechnology: Hand-operating nanotechnology	<b>Katsuhiko Ariga</b>	National Institute for Materials Science, Japan
11:00-11:30	Phase-Equilibrium-Dominated Vapor-Liquid-Solid Growth Mechanism	<b>Zheng Hu</b>	Nanjing University, China
11:30-12:00	Metallic and Semiconductor Nanostructures in Glasses and Microstructured Fibers: Structural and Optical Properties	<b>Mohamed Bouazaoui</b>	Uni des Sciences et Technologies de Lille, France
12:00-12:15	Crystallization of Ti33Cu67 metallic glass under high current density electrical pulses	<b>Dina V. Dudina</b>	Institute of Solid State Chemistry and Mechanochemistry, Russia
12:15-13:30	<b>Lunch Break</b>		
<b>Saturday April 23</b>			
<b>VCIAN: Growth and Characterization III</b>		<b>Chair: Zheng Hu</b>	
13:30-14:00	Magnetic nanowires for spintronics purposes	<b>Luc Piraux</b>	Université Catholique de Louvain, Belgium
14:00-14:30	Metal-Assisted Hydrofluoric Acid Etching of Silicon	<b>Shinji Yae</b>	University of Hyogo, Japan
14:30-15:00	Silicon Nanostructures Formed by Electroless Etching	<b>Kurt Kolasinski</b>	West Chester University, USA
15:00-15:15	Observation of a metal-to-insulator switching effects and phonon signatures in the nano Fe-Pt alloys produced by UV laser photolysis	<b>S. Nkosi</b>	CSIR- National Laser Centre, South Africa
<b>Sunday April 24</b>			
<b>VCIAN: Characterization and Application I</b>		<b>Chair: Jayasimha Atulasimha</b>	
8:45-9:15	Acoustic and thermal excitations transfer in nanoscale junctions via Ultrasonic Force and Scanning Thermal Microscopy	<b>Oleg Kolosov</b>	Lancaster University, United Kingdom
9:15-9:45	Nanopatterns and Nanomaterials: Synthesis, Characterization, Properties and Applications	<b>Hua Zhang</b>	Nanyang Technological University, Singapore
9:45-10:00	Studies on Sericin/Silk Fibroin Blend Nanofibers for Wound Dressing	<b>Xianhua Zhang</b>	Shinshu University, Japan
10:00-10:15	<b>Session Break</b>		
<b>Sunday April 24</b>			
<b>VCIAN: Characterization and Application II</b>		<b>Chair: Hua Zhang</b>	
10:15-10:45	Electrically Switchable Multiferroic Nanomagnets: a New Paradigm for Low Power Nanomagnetic Computing	<b>Jayasimha Atulasimha</b>	Virginia Commonwealth University, USA
10:45-11:00	Highly sensitive hydrogen sensor based on graphite-InP or -GaN Schottky barrier with electrophoretically deposited Pd nanoparticles	<b>Karel Zdansky</b>	Institute of Photonics and Electronics, Czech Republic
11:00-11:15	Role of Channel Pattern on the Formation of Single-Dopant Transistors	<b>Daniel Moraru</b>	Shizuoka University, Japan