

**Collaborative Conference on 3D & Materials Research (CC3DMR) 2013**

**Time: 24 – 28 June, 2013**

**Venue: Ramada Jeju, Korea**

**DAY 1 (Monday 24 June)**

<b>Ball Room 1 (CC3DMR 2013 Conference Room 1, 2<sup>nd</sup> floor)</b>			
<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Eun-Soo Kim</b>
08:30-09:00	001	<b>Lambertus Hesselink</b>	Differential Phase Contrast 3-D X-ray Imaging
09:00-09:30	002	<b>H. Takagi</b>	Magnetophotonic Microcavity for Holographic Three-dimensional Display
09:30-10:00	004	<b>Daniel P. K. Lun</b>	Fast Fringe Projection Profilometry with Absolute Phase Marker Retrieval
10:00-10:30	<i>Session Break</i>		
			<b>Chair: H. Takagi</b>
10:30-11:00	007	<b>Shuichi Utsugi</b>	Stereo Camera Range Finder with a Slit-like Window for Visual Aid
11:00-11:30	009	<b>Seung-Cheol Kim</b>	Accelerated CGH generation of 3-D video images using motion-compensated principal fringe patterns of the N-LUT
11:30-12:00	011	<b>Rogério Seiji Higa</b>	The use of light field cameras in surveillance applications
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Nam Kim</b>
13:30-14:00	012	<b>Hartmut Mueller</b>	Non-contact generating of 3D replicas – virtual and tangible
14:00-14:30	014	<b>Min-Chul Park</b>	Color Assessment by Light Source and Spatial Light Modulator for Digital Holography
14:30-15:00	015	<b>Shih-Shuo Tung</b>	Depth Estimation from A Single Image of A Conventional Camera
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Min-Chul Park</b>
15:30-16:00	017	<b>Nam Kim</b>	Holographic optical element for head mounted display
16:00-16:30	019	<b>Yoshio Hayasaki</b>	Three-dimensional position measurement of nanoparticles
16:30-17:00	021	<b>Gerard J. Kim</b>	3D Object Selection in Mobile Auto-stereoscopic Display while Moving
17:00-17:30	023	<b>P.W.M. Tsang</b>	A Study on the Wave Recording Plane Framework in the Enhancement and Processing of Digital Holograms
18:00-Night	<i>Conference Reception</i>		

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<b>Ball Room 2 (CC3DMR 2013 Conference Room 2, 2<sup>nd</sup> floor)</b>			
<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Chihiro Maeda</b>
08:30-09:00	25	<b>Jeong Ik Lee</b>	3-D biomimetic hybrid cellular spheroids from commercial cell lines
09:00-09:30	27	<b>Man-kit Leung</b>	Designs of Triarylamine Derivatives and their Applications for Optoelectronics
09:30-10:00	29	<b>Meital Rechtes</b>	Co-Assembly of Short Peptide into Biomolecular Necklaces
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Meital Rechtes</b>
10:30-11:00	30	<b>Changsik Song</b>	Functional $\pi$ -Electronic Materials: $\pi$ -Conjugated Polymers and Carbon Nanotubes for Molecular Actuators, Sensors, and Novel Conduits
11:00-11:30	31	<b>Chihiro Maeda</b>	Synthesis of Carbazole-Based Porphyrinoids
11:30-12:00	33	<b>Takahiro Muraoka</b>	Discrete PEGs with Distinctive Functions
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Tamaki Nakano</b>
13:30-14:00	34	<b>Il Kim</b>	Biocompatible PEG Hydrogels with Degradable Phosphoester and Phosphoamide Linkers and Their Applications
14:00-14:30	36	<b>To Ngai</b>	Design, Synthesis and Application of Microgel Particles with Tailored Morphologies
14:30-15:00	37	<b>Paul D. Thornton</b>	Polypeptidic Modification by NCA Polymerisation to Afford Stimuli-Responsive Materials
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Il Kim</b>
15:30-16:00	39	<b>Sung Gap Im</b>	Tailoring surface properties of non-traditional substrates with vapor deposited polymer coatings
16:00-16:30	41	<b>Tamaki Nakano</b>	Synthesis and Structure of CPL-Emitting Chiral Polymers
16:30-17:00	42	<b>Masa-aki Wakita</b>	Use of polymerized lipid assembly for selective adsorption
17:00-17:30	44	<b>Ken Nakajima</b>	Nano-palpatation AFM and its application to polymeric nano-materials
18:00-Night	<i>Conference Reception</i>		

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<b>Ball Room 3 (CC3DMR 2013 Conference Room 3, 2<sup>nd</sup> floor)</b>			
<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Hiroshi Nakajima</b>
08:30-09:00	46	<b>Masahiro Yamashita</b>	Quantum Molecular Spintronics Based on Multiple-Decker Phthalocyaninato Lanthanide(III) Single-Molecule Magnets
09:00-09:30	48	<b>Nian Lin</b>	Modulating Single-molecule Electronic Structures via Metal Atoms
09:30-10:00	49	<b>Akira Yagishita</b>	Photoelectron Diffraction from Single Oriented Molecules
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Masahiro Yamashita</b>
10:30-11:00	52	<b>Hiroshi Nakajima</b>	Dynamic Control of Inter-proteins Interaction for Protein Based Signal Transduction System
11:00-11:30	55	<b>Xuefeng Guo</b>	Molecular Electronic Devices Using Carbon Nanomaterials-based Electrodes
11:30-12:00	57	<b>Gaku Fukuhara</b>	Supramolecular oligosaccharide-sensing with curdlan hosts
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Tae-Young Yoon</b>
13:30-14:00	59	<b>Takeharu Haino</b>	Molecular Recognition-Directed Supramolecular Polymerization of Functional Molecules
14:00-14:30	60	<b>Juyoung Yoon</b>	Recent Progress on Fluorescent and Colorimetric Chemosensors
14:30-15:00	61	<b>Yong-Rok Kim</b>	Highly Sensitive Electrochemical Detection of Estrogen Hormone in Different Phases Using an Immuno-biosensor
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Juyoung Yoon</b>
15:30-16:00	63	<b>Shoko Kume</b>	Molecular Motion Designing toward Controlled Electron Transfer and Photophysics of Coordination Compound
16:00-16:30	65	<b>Tae-Young Yoon</b>	Real-time single-molecule co-immunoprecipitation analyses cancer-specific cell signaling dynamic
16:30-17:00	66	<b>Ioan Bâldea</b>	Transition Voltage Spectroscopy: An Appealing Tool of Investigation in Molecular Electronics
17:00-17:30	68	<b>Hirofumi Yoshikawa</b>	Development of Molecular Cluster Batteries
18:00-Night	<i>Conference Reception</i>		

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**Woodo (CC3DMR 2013 Conference Room 4, 2<sup>nd</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Leeyih Wang</b>
08:30-09:00	70	<b>Tom Gregorkiewicz</b>	Efficient carrier multiplication by Si nanocrystals in SiO <sub>2</sub>
09:00-09:30	71	<b>Seigo Ito</b>	Printed Full-Inorganic Solar Cells
09:30-10:00	73	<b>Ming-Kwei Lee</b>	Efficiency Enhancement of Solar Cell with Aqueous Solution Deposited ZnO Nanotip Array
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Tom Gregorkiewicz</b>
10:30-11:00	75	<b>Jeonghoon Yoo</b>	Systematic Design Approach of the Thin Film Solar Cells
11:00-11:30	77	<b>Leeyih Wang</b>	Facile Approaches to Enhancing the Morphological Stability of the Donor/Acceptor Composites in Polymer Solar Cells
11:30-12:00	79	<b>Dong-Wook Kim</b>	Efficient Light and Carrier Management using Patterned c-Si Photovoltaic Devices
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: S. Y. Kim</b>
13:30-14:00	80	<b>Tae-Sik Yoon</b>	Nonvolatile Memory Devices with Nanoparticle Assembly
14:00-14:30	81	<b>Shi-Jin Ding</b>	Electrical Programmable and Light Erasable IGZO-based TFT Memory Devices with gate stacks of Al <sub>2</sub> O <sub>3</sub> / AlZnO/ Al <sub>2</sub> O <sub>3</sub>
14:30-14:45	84	<b>Fu-Hai Li</b>	Study of the Effect of Cell-to-Cell Space Region and Cell Geometry on RTN in NAND Flash Memory
14:45-15:00	85	<b>K. J. Baek</b>	In situ Observation of Switching Process of Phase Change Random Access Memory Devices in TEM
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Tae-Sik Yoon</b>
15:30-16:00	87	<b>Clément Barraud</b>	Transport in BN/graphene heterostructures
16:00-16:30	89	<b>S. Y. Kim</b>	Doping method on graphene with inorganic and organic materials
16:30-17:00	91	<b>S. -R. Eric Yang</b>	Novel electronic properties of a graphene antidot, parabolic dot, and armchair ribbon
17:00-17:30	92	<b>Razali Ismail</b>	The Effect of Uniaxial Strain on Graphene Nanoribbon Carrier Statistic
18:00-Night	<i>Conference Reception</i>		

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<b>Chooja (CC3DMR 2013 Conference Room 5, 2<sup>nd</sup> floor)</b>			
<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Eun-Bum Cho</b>
08:30-09:00	93	<b>Yishay Feldman</b>	Inorganic fullerene-like nanoparticles and nanotubes twenty years after
09:00-09:30	95	<b>Qing Zhang</b>	Carbon Nanotubes Functionalized by Dichlorocarbene
09:30-10:00	96	<b>Rainer Friedlein</b>	Electronic structure and chemistry of epitaxial silicene on zirconium diboride substrates
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Yishay Feldman</b>
10:30-11:00	97	<b>Alan Man Ching Ng</b>	Nanomaterials photocatalysis
11:00-11:30	98	<b>K. Haenen</b>	Doped Nanocrystalline Chemical Vapor Deposited Diamond
11:30-12:00	99	<b>Eun-Bum Cho</b>	Functionalized Mesoporous Silica and Organosilica for Bio- and Catalytic Application
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Fumitaro Ishikawa</b>
13:30-14:00	102	<b>Tetsuji Sekitani</b>	Site-Specific Photochemical Reactions of Self-Assembled Monolayer
14:00-14:30	103	<b>Bashir Ahmmad</b>	Nano- and Micro-structured Photocataysts for Solar Energy Conversion
14:30-15:00	105	<b>Makoto Umeki</b>	A Gradient-System Approach to Pattern Formation of Vortex Crystal
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Tetsuji Sekitani</b>
15:30-16:00	106	<b>M. P. Pileni</b>	Modulating the Chemical and Physical Properties of nanocrystals and supracrystals through atoms and nanocrystals assembling: New Challenges.
16:00-16:30	107	<b>Fumitaro Ishikawa</b>	Low-dimensional dilute nitride semiconductor heterostructures with delta-doping and nanowires
16:30-17:00	109	<b>Aleksandra Djurišić</b>	Wide band gap semiconductor nanomaterials – growth, properties, and applications
17:00-17:30	110	<b>A. V. Chumak</b>	Nanostructured magnetic metamaterials - magnonic crystals
18:00-Night	<i>Conference Reception</i>		

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**Mara (CC3DMR 2013 Conference Room 6, 2<sup>nd</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: M. Ishizaki</b>
08:30-09:00	112	<b>Akira Miyamoto</b>	Multiscale, Multiphysics Computational Chemistry Methods for Industrial Innovations
09:00-09:30	114	<b>Noriyoshi Matsumi</b>	Organoboron Ion-gel Electrolytes as Lithium Ion Transport Media
09:30-10:00	116	<b>Qian Miao</b>	N-Heteropentacenes: From Molecules to Solution-Processed Organic Semiconductors
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Akira Miyamoto</b>
10:30-11:00	117	<b>Yusuke Ide</b>	Photocatalytic Organic Synthesis using New Materials and under Controlled Reaction Environments
11:00-11:30	118	<b>Bungo Ochiai</b>	Organic-Inorganic Hybrid Materials Based on Abundant Resources
11:30-12:00	120	<b>M. Ishizaki</b>	Function and Property control of Prussian Blue Nanoparticles by the Surface Modification
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Cher Ming Tan</b>
13:30-14:00	122	<b>Eng Soon TOK</b>	Architecture of Si and Si-Co Clusters on Si(111) Surface
14:00-14:30	123	<b>Sho Fujii</b>	Nanomaterial assembly by small bubbles
14:30-15:00	125	<b>Kenta Arima</b>	Nanoscale Interaction of Water with Germanium Surfaces: Wetting, Etching and Machining properties
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Sho Fujii</b>
15:30-16:00	128	<b>Takashi TANI</b>	Fabrication of Novel Cell Chips Using In-Situ Surface Modification
16:00-16:30	130	<b>K. Okano</b>	High-sensitivity photodetector using amorphous selenium and nitrogen-doped diamond
16:30-17:00	131	<b>Cher Ming Tan</b>	Modeling of Gate-All-Around Silicon Nanowire FET under ESD Stress
17:00-17:15	134	<b>Sarifah Fauziah Syed Draman</b>	Nanocomposites of cellulose-based adhesive, toluenesulfanic acid-doped polypyrrole and ceramic filler prepared via colloidal dispersion
17:15-17:30	136	<b>Daisuke. Tanaka</b>	Switching Property of a Porphyrin Based Tb <sup>III</sup> Double-decker Complex
18:00-Night	<i>Conference Reception</i>		

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**Biyang (CC3DMR 2013 Conference Room 7, 2<sup>nd</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Sangiliyandi Gurunathan</b>
08:30-09:00	137	<b>Toshiaki Enoki</b>	Role of Edge Geometry and Chemical Structure in the Electronic Structure of Graphene Nanostructures
09:00-09:30	139	<b>Ping Sheng</b>	Large Scale Mesoscopic Transport in Nanostructured Graphene
09:30-10:00	142	<b>Jongbae Hong</b>	Understanding Tunneling Conductances of Multi-layer Graphenes
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Jongbae Hong</b>
10:30-11:00	143	<b>Kibog Park</b>	Low-Temperature Formation of Epitaxial Graphene on Hexagonal SiC Induced by Electron Beam Irradiation
11:00-11:30	145	<b>Ryo Nouchi</b>	Electrode-contact effects on graphene field-effect transistors
11:30-11:45	147	<b>Sangiliyandi Gurunathan</b>	Green chemistry approach for the synthesis of biocompatible graphene and their potential biomedical applications
11:45-12:00	148	<b>Jeff Gelb</b>	Material Investigations from 3D to 4D: The Rise of Laboratory X-ray Microscopy
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: David D. O'Regan</b>
13:30-14:00	149	<b>Chao-Hung Du</b>	Study of the electronic modulations in CMR material using resonant x-ray scattering
14:00-14:30	150	<b>Emad Oveisi</b>	Smaller is stronger: A synergetic approach using TEM, in-situ Laue, and computation
14:30-15:00	152	<b>Nicholas D.M. Hine</b>	Semiconductor and Metal-Oxide Nanocrystal Simulations with Linear-Scaling PAW DFT
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Chao-Hung Du</b>
15:30-16:00	153	<b>Duc Nguyen-Manh</b>	First-Principles Modeling of Phase Stability and Radiation Defects in Materials for Fusion Reactors
16:00-16:30	155	<b>Masaaki Nakayama</b>	Radiation of terahertz electromagnetic waves from coherent longitudinal optical phonons in multiple quantum wells
16:30-17:00	157	<b>David D. O'Regan</b>	Modelling dynamically correlated materials in realistic nanostructures: DFT strategies and linear-scaling approaches
17:00-17:30	160	<b>Gehad Sadiek</b>	Robustness of thermal entanglement in spin systems
18:00-Night	<i>Conference Reception</i>		

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**Hanra (CC3DMR 2013 Conference Room 8, 8<sup>th</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: T. Tanaka</b>
08:30-09:00	161	<b>Takeshi Kawae</b>	Fabrication of BiFeO <sub>3</sub> /p-diamond hetero structure for power device applications
09:00-09:30	163	<b>Kiyoto Kamagata</b>	Exploring The Energy Landscape of Denatured Protein Using Time-series Detection of Fluorescence of Free Single Molecules
09:30-10:00	165	<b>Katsuhiko Kanaizuka</b>	Construction of photo-responsive devices using functional molecules on ITO electrodes
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Kiyoto Kamagata</b>
10:30-11:00	166	<b>T. Kakeshita</b>	Giant strain in some ferromagnetic shape memory alloys and an antiferromagnetic oxide CoO single crystal
11:00-11:30	167	<b>T. Tanaka</b>	Micromagnetic simulation of microwave-assisted magnetic recording process
11:30-12:00	169	<b>T. Terai</b>	Strong-correlation among spin, orbital and lattice distortion in layered perovskite manganite La <sub>2-2x</sub> Sr <sub>1+2x</sub> Mn <sub>2</sub> O <sub>7</sub> ( x = 0.307)
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Yoichi Takanishi</b>
13:30-14:00	171	<b>Yu-Hui Tang</b>	Spin Transport Properties in Semiconductor-based Magnetic Tunnel Junctions
14:00-14:30	172	<b>Masahiko Higuchi</b>	Pair Density Functional Theory
14:30-15:00	174	<b>Toshiki Yamada</b>	Single molecule spectroscopy for quantum dots and organic molecules under various ambient conditions
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Toshiki Yamada</b>
15:30-16:00	176	<b>Yoichi Takanishi</b>	Structure analysis of Smectic C* variant phases appearing between ferroelectric and antiferroelectric phases by resonant X-ray scattering
16:00-16:30	178	<b>Jing-Sheng Chen</b>	Room temperature stabilization of (001) textured tetragonal phase in oxygen deficient SrRuO <sub>3</sub> thin film
16:30-17:00	179	<b>K.-H. Chew</b>	Interface Intermixing in Ferroelectric Superlattices with alternating Negative and Positive Interface Charges
17:00-17:30	181	<b>Norifumi Fujimura</b>	Light-induced phenomena of strongly correlated ferroelectric thin films
18:00-Night	<i>Conference Reception</i>		



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<b>Ara (CC3DMR 2013 Conference Room 9, 8<sup>th</sup> floor)</b>			
<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Yasuhiro Ohki</b>
08:30-09:00	182	<b>Sheng Wang</b>	Doping-free carbon nanotube optoelectronic devices
09:00-09:30	183	<b>Christian A. Nijhuis</b>	One Carbon Matters: the Role of van der Waals Forces in the Performance of Molecular Diodes
09:30-10:00	184	<b>Takahiro Ohkubo</b>	Characteristics of restricted nanosolution formed in carbon nanospace
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Sheng Wang</b>
10:30-11:00	187	<b>H. Tanaka</b>	Experimental Realization of Spin-1/2 Triangular-Lattice Heisenberg Antiferromagnets
11:00-11:30	189	<b>Masahiko Yamaguchi</b>	Molecular Thermal Hysteresis in the Helix-dimer/random-coil Structural Changes of Sulfonamido Helicene Oligomers
11:30-12:00	190	<b>Yasuhiro Ohki</b>	Synthesis and Characterization of Iron-Sulfur Cluster Molecules Mimicking the Nitrogenase Metallo-Clusters
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Yuan-Hua Lin</b>
13:30-14:00	192	<b>Kentaro Kawai</b>	Efficient and Scalable Liquid Handling in Micro/Nano-fluidic System for biomedical applications
14:00-14:30	194	<b>Jiang Xia</b>	Protein-nanoparticle Hybrid Assembly for Biocatalysis
14:30-15:00	196	<b>K. Ichimura</b>	Charge Order Fluctuation in Organic Conductors
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Jiang Xia</b>
15:30-16:00	198	<b>Yuan-Hua Lin</b>	Electrical and Magnetic Behaviours Observed in Nanostructured NiO Films
16:00-16:30	199	<b>Y. Rosenwaks</b>	Nanowires Go Electrostatic
16:30-17:00	201	<b>Sung-Jin Kim</b>	Photoluminescent nanographitic/nitrogen-doped graphitic hollow shells as a potential candidate for biological applications
17:00-17:30	202	<b>Sarani Zakaria</b>	Characterisation of Cellulose Hydrogel with Nano Iron Oxide From Kenaf Core Via Pre-Cooled Method
18:00-Night	<i>Conference Reception</i>		

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**Ora (CC3DMR 2013 Conference Room 10, 8<sup>th</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Namkyoo Park</b>
08:30-09:00	203	<b>Jun Yamamoto</b>	Anomalous Critical Phenomena in the Mixture of Cholesteric and Smectic Blue Phases
09:00-09:30	205	<b>Tetsuo Tsuchiya</b>	Low Temperature Growth of Oxide Thin film by Photo Induced Chemical Solution Process
09:30-10:00	207	<b>Shinji Kajimoto</b>	Photo-synthesis of gold nanoparticles in dynamic phase separating media and aqueous solutions
10:00-10:30	<b>Session Break</b>		
			<b>Chair: Jun Yamamoto</b>
10:30-11:00	209	<b>Ruey-Bing (Raybeam) Hwang</b>	Extraordinary Properties of Electromagnetic Synthetic Dielectrics
11:00-11:30	211	<b>Namkyoo Park</b>	Anisotropic meta-atom of decoupled and toward top-down design of metamaterials: dielectric and metallic implementations
11:30-12:00	213	<b>Minoru Osada</b>	Smart High-k Nanodielectrics Using Oxide Nanosheets
12:00-13:30	<b>Lunch Break</b>		
			<b>Chair: S. Takeshita</b>
13:30-14:00	215	<b>Kam Sing Wong</b>	Fabrication of 2- and 3-dimensional photonic crystals by single beam holographic lithography
14:00-14:30	217	<b>Masahiko Kondow</b>	Development for photonic crystal laser with AlO <sub>x</sub> cladding layer
14:30-15:00	219	<b>Tsuyoshi Okuno</b>	Thiosilicate Phosphor materials for silicon photonics
15:00-15:30	<b>Session Break</b>		
			<b>Chair: Kam Sing Wong</b>
15:30-16:00	221	<b>S. Takeshita</b>	Development and Applications of Colloidal Nanophosphors
16:00-16:30	223	<b>Zvicka Deutsch</b>	Band-gap engineered colloidal double quantum dots
16:30-17:00	225	<b>Sungjee Kim</b>	Assembled Quantum Dots
17:00-17:30	226	<b>Nobuhiro Tsumori</b>	Spectroscopy and Emission Energy Control of Individual InAs Quantum Dots Using a Phase Change Optical Mask
18:00-Night	<b>Conference Reception</b>		

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<b>Ball Room 1 (CC3DMR 2013 Conference Room 1, 2<sup>nd</sup> floor)</b>			
<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: J. H. Han</b>
08:30-09:00	227	<b>William Milne</b>	Graphene for Field Emission Applications
09:00-09:30	229	<b>Gunn Kim</b>	Ab initio study of graphitic carbon nanostructures on hexagonal boron nitride sheets
09:30-10:00	231	<b>Jyh-Myng Zen</b>	Application and characterization of chemical functionality on carbon surfaces
10:00-10:30	<b>Session Break</b>		
			<b>Chair: Gunn Kim</b>
10:30-11:00	232	<b>J. H. Han</b>	Carbon Nano-Fiber Reinforced Al Matrix Composites Fabricated by Melt Stirring
11:00-11:30	233	<b>Kei Murakoshi</b>	Preparation and Characterization of Nano-Carbon Materials under Electrochemical Potential Control
11:30-12:00	235	<b>Hiroyuki Shima</b>	Morphological impact on nanocarbon physics
12:00-13:30	<b>Lunch Break</b>		
			<b>Chair: Jong-Soo Rhyee</b>
13:30-14:00	236	<b>Jianguo Huang</b>	Replication and surface modification of natural cellulose substances: a shortcut to functional nanostructured materials
14:00-14:30	238	<b>JitKang Lim</b>	Colloidal Stability and Magnetophoresis of Surface Functionalized Magnetic Nanoparticles
14:30-15:00	239	<b>Masato Kotsugi</b>	Magnetic property and electronic structure of L10-FeNi studied by synchrotron radiation
15:00-15:30	<b>Session Break</b>		
			<b>Chair: Jianguo Huang</b>
15:30-16:00	241	<b>Junichi Takahara</b>	Thermal Radiation Control by Nanostructures
16:00-16:30	243	<b>Jong-Soo Rhyee</b>	Charge density wave and low dimensionality in thermoelectric materials
16:30-17:00	244	<b>Takashi Yatsui</b>	Dressed photon and phonon assisted process and their applications
17:00-17:30	245	<b>Shinya Koshihara</b>	Search for a hidden phase in strongly correlated systems and the role of ultrafast dynamical structural probing
18:00-Night	<b>Dinner and Activities Recommended</b>		

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<b>Ball Room 2 (CC3DMR 2013 Conference Room 2, 2<sup>nd</sup> floor)</b>			
<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Y. Yeshurun</b>
08:30-09:00	246	<b>Akihiko Tsuda</b>	Acoustic Alignments of Nanofibers by Audible Sound
09:00-09:30	248	<b>T. NAGAO</b>	Oxide Nanowire-Based Light-Harvesting Heterostructures and Their Applications
09:30-10:00	249	<b>Lei Zhou</b>	Metasurfaces to control electromagnetic waves
10:00-10:30	<b>Session Break</b>		
			<b>Chair: T. NAGAO</b>
10:30-11:00	250	<b>Kuan-Jiuh Lin</b>	Antireflective and Electrochromic TiO <sub>2</sub> Nanowire Electrodes for Smart Glass
11:00-11:30	251	<b>Andrea Li Bassi</b>	Nanostructured Oxide Surfaces for Advanced Light Harvesting: from Individual Clusters to Functional Hierarchical Films
11:30-12:00	253	<b>Y. Yeshurun</b>	Field-induced enhancement of superconductivity in granular YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> nano wires
12:00-13:30	<b>Lunch Break</b>		
			<b>Chair: S. Mizukam</b>
13:30-14:00	254	<b>Johnny C. Ho</b>	Stoichiometric Effect on Electrical, Optical, and Structural Properties of Composition-Tunable In <sub>x</sub> Ga <sub>1-x</sub> As Nanowires
14:00-14:30	255	<b>S. Miyasaka</b>	Two T <sub>c</sub> -rising mechanisms revealed by transport properties in iron pnictide superconductors
14:30-15:00	256	<b>Norikazu Tomita</b>	Visualization of quantum fluctuations due to electron-electron and electron-phonon interactions
15:00-15:30	<b>Session Break</b>		
			<b>Chair: Johnny C. Ho</b>
15:30-16:00	259	<b>S. Mizukam</b>	Magnetic Tunnel Junctions with Mn-based Magnetic Alloys for Spin-Torque Applications
16:00-16:30	261	<b>K S Chan</b>	Spin Current Generation in Graphene
16:30-17:00	262	<b>Takayuki Iwasaki</b>	Single-Crystal and Twisted Graphene Layers on Metal Films
17:00-17:30	264	<b>Yu Shiratsuchi</b>	Switchable exchange bias for future spinelectronics
18:00-Night	<b>Dinner and Activities Recommended</b>		

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<b>Ball Room 3 (CC3DMR 2013 Conference Room 3, 2<sup>nd</sup> floor)</b>			
<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Jong Chang Yi</b>
08:30-09:00	265	<b>Qiang Wu</b>	Growth Mechanism, Controllable Synthesis and Field Emission Properties of AlN-Based Nanostructures
09:00-09:30	267	<b>Takanari Togashi</b>	One-step synthesis of metal oxide nanoparticle assembled materials in hydrothermal condition
09:30-10:00	268	<b>Boen Houng</b>	Densification Behavior of Impurity Doped TiO <sub>2</sub> and The Film Properties
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Qiang Wu</b>
10:30-11:00	269	<b>Jong Chang Yi</b>	Anisotropic optical properties of quantum dot arrays fabricated by edge defined nanowires <sup>1</sup>
11:00-11:30	270	<b>Thierry Verbiest</b>	Nonlinear optical imaging of complex organized materials
11:30-12:00	271	<b>Kazuyuki Sakamoto</b>	Valley filter by peculiar Rashba spin
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Emad Oveisi</b>
13:30-14:00	273	<b>Raed Abu-Reziq</b>	Nanomaterials for Bridging Between Homogeneous and Heterogeneous Catalysis
14:00-14:30	274	<b>David Fuks</b>	<i>Ab initio</i> Study of Adsorption Phenomena in Catalysis on Regular Surfaces and Grain Boundaries of Ionic Solids
14:30-15:00	275	<b>Jonghwa Eom</b>	Out-of-plane spin transport in NiFe/graphene/NiFe junctions
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Jonghwa Eom</b>
15:30-16:00	276	<b>Sang-Eon Park</b>	Catalytic Application of Periodic Mesoporous Organic Silica (PMO) having Porphyrin Moiety
16:00-16:30	277	<b>Hirokazu Kobayashi</b>	Correlation between molecular dynamics of organic radicals in 1-D organic nanochannels and spin-spin interaction of 1-D organic-radical molecular chains
16:30-17:00	279	<b>Takeo Suga</b>	Functional Block Copolymer Design for Organic Resistive Memory
17:00-17:30	280	<b>Dar-Fu Tai</b>	A highly strain materials based on cyclic peptide
18:00-Night	<i>Dinner and Activities Recommended</i>		

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<b>Woodo (CC3DMR 2013 Conference Room 4, 2<sup>nd</sup> floor)</b>			
<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Ikuo Suemune</b>
08:30-09:00	281	<b>Masato Kobayashi</b>	Development of efficient quantum chemical calculation methods for nano material research
09:00-09:30	283	<b>Hiroyuki Hirayama</b>	Quantum interference of the Rashba-induced spin-split two-dimensional surface state electrons
09:30-10:00	285	<b>Yossi Paltiel</b>	Hybrid approach to room temperature quantum material and devices
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Masato Kobayashi</b>
10:30-11:00	287	<b>Zhenyang Zhong</b>	Unique properties of controlled GeSi islands on patterned Si substrates
11:00-11:30	289	<b>Lode Pollet</b>	Quantum Monte Carlo simulations of supersolid Helium
11:30-12:00	290	<b>Ikuo Suemune</b>	Fabrication and Characterization of Semiconductor Nanostructures for Their Quantum Information Applications
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Jongwook Park</b>
13:30-14:00	292	<b>Eun Chul Cho</b>	Synthesis and Biomedical Application of Gold Nanoparticles
14:00-14:30	294	<b>Fei Zeng</b>	Adjustable resistive switching mechanisms of metal/PEDOT:PSS memristor and simulations to biological synapse
14:30-15:00	296	<b>Hung-Wing Li</b>	Influence of Nanoparticles on Alzheimer's Disease Amyloid Fibrillation
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Lode Pollet</b>
15:30-16:00	297	<b>Osamu Kojima</b>	Optical characteristics of quantum dot ensembles grown by using the strain compensation technique
16:00-16:30	298	<b>Hsiao-Wen Zan</b>	Vertical Organic Transistor/Diode for OLED Driving and for Breath Ammonia Detection
16:30-17:00	300	<b>Hsin-Fei Meng</b>	Unmodified small-molecule organic light-emitting diodes and polymer solar cell by blade coating
17:00-17:30	301	<b>Jongwook Park</b>	Highly Efficient New Emitters Based on New Concepts for Blue Fluorescence OLEDs
18:00-Night	<i>Dinner and Activities Recommended</i>		

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**Chooja (CC3DMR 2013 Conference Room 5, 2<sup>nd</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Dae-Eun Kim</b>
08:30-09:00	303	<b>Yasufumi Enami</b>	High Confinement and Efficient Poling in TiO <sub>2</sub> /Electro-Optic Polymer/TiO <sub>2</sub> Multilayer Slot Waveguide Modulators
09:00-09:30	305	<b>Wen-Hsien Li</b>	Tuning the Transport Characteristics of Multi-component Nanoparticle Compacts
09:30-10:00	307	<b>Yu-Lun Chueh</b>	ZnO thin film memristor: from homojunction diode to complementary 1D1R application and bias polarity-induced transformation of filamentary and homogeneous resistive switching with controllable multistate
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Yasufumi Enami</b>
10:30-11:00	309	<b>Dae-Eun Kim</b>	Nanotribology of Thin Films
11:00-11:30	310	<b>Raman Vedarjan</b>	Porous TiO <sub>2</sub> Nanocomposites Coated Stainless Steel for Biomedical Application
11:30-12:00	312	<b>C.- L. Cheng</b>	Nanodiamond as Hemoglobin based Artificial Blood Substitutes
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Yasufumi Fujiwara</b>
13:30-14:00	313	<b>S. Murakami</b>	Topological magnonic crystals and chiral edge modes
14:00-14:30	315	<b>Teuoki Tago</b>	Size-controlled synthesis of zeolite crystals and their applications
14:30-15:00	317	<b>L. Li</b>	Magnetism of Iron Oxide Nanoparticles and Magnetic Bio-Detection
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Teuoki Tago</b>
15:30-16:00	318	<b>K.Rhie</b>	Large perpendicular anisotropy grown on top of amorphous buffer layer
16:00-16:30	319	<b>Mustafa Ürgen</b>	Electrochemical routes for the production of nano wires and nano functional surfaces
16:30-17:00	320	<b>Yasufumi Fujiwara</b>	Eu-doped GaN and its application to nitride-based red light-emitting diodes
17:00-17:30	322	<b>Kyeongjae Cho</b>	Rational Design of Diesel Oxidation Catalysts from Mn-Mullite Minerals
18:00-Night	<i>Dinner and Activities Recommended</i>		

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**Mara (CC3DMR 2013 Conference Room 6, 2<sup>nd</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Hiroshi Katagiri</b>
08:30-09:00	323	<b>Ruri Hidema</b>	Anisotropic structures induced by polymers in two-dimensional turbulent flows
09:00-09:30	326	<b>S. Kar-Narayan</b>	Polymer based nano-piezoelectric generators for energy harvesting applications
09:30-10:00	327	<b>Shlomo Yitzchaik</b>	White Light and Heat Sensitive Pyridine Derived Polymer Blend
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Ruri Hidema</b>
10:30-11:00	328	<b>Hiroshi Katagiri</b>	Synthesis, Structure, and Transport Properties of Azulene-Based Oligomers
11:00-11:30	330	<b>Sumio Ishihara</b>	Electric polarization, polar collective excitation and superconductivity in correlated electrons of organic material
11:30-12:00	332	<b>Mohamed Mahmoud Nasef</b>	Alternative microfibrinous polymer adsorbents for environmental remediation by radiation induced grafting and selective functionalization
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Ching-Lieh Li</b>
13:30-14:00	334	<b>Satoshi Uda</b>	Control of Nucleation and Growth of Inorganic and Organic Materials by A High Electric Field Sustained in An Electric Double Layer
14:00-14:30	336	<b>Rusli Daik</b>	Thermally Conductive Nanocomposites of Surfactant-doped Polypyrrole and Chloroprene Rubber
14:30-15:00	338	<b>Sirikalaya Suvachittanont</b>	Innovative Production of Cellulose Sponge from Waste Paper to Absorb Ink Solvent
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Rusli Daik</b>
15:30-16:00	340	<b>Akira Takahashi</b>	Dynamics of Photoinduced Phase Transition in Dimer Mott Insulators
16:00-16:30	341	<b>Ching-Lieh Li</b>	An overview of open-ended coaxial line probe for the electromagnetic property measurements
16:30-17:00	343	<b>Kyoichi Sawabe</b>	Property of small Ag clusters governed by the topology of molecular orbital composed of s orbitals
17:00-17:30	346	<b>Xianmao Lu</b>	Tuning magnetic nanoparticles as forward osmosis draw solutes for water desalination
18:00-Night	<i>Dinner and Activities Recommended</i>		



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**Biyang (CC3DMR 2013 Conference Room 7, 2<sup>nd</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Jong-Heun Lee</b>
08:30-09:00	347	<b>Nobuhiko Nakano</b>	A design of CMOS LSI for bio-sensing and brain machine interface
09:00-09:30	349	<b>Yoshiko Miura</b>	Glycopolymer Interface for Bio-Functional Materials
09:30-10:00	350	<b>Hye Jin Lee</b>	Ultrasensitive Surface Bioaffinity Sensors with Biofunctionalized Gold and Silver Nanoparticles for Biotechnology and Environmental Applications
10:00-10:30	<b>Session Break</b>		
			<b>Chair: Nobuhiko Nakano</b>
10:30-11:00	351	<b>Kengo Shimanoe</b>	Awaiting Solution toward New Generation of Semiconductor Gas Sensors
11:00-11:30	355	<b>Jong-Heun Lee</b>	High performance oxide semiconductor gas sensors using one-dimensional hetero-nanostructures
11:30-12:00	357	<b>Yukio Kawano</b>	Graphene-Based Terahertz and Infrared Spectrometer
12:00-13:30	<b>Lunch Break</b>		
			<b>Chair: Joseph Chang</b>
13:30-14:00	358	<b>Tom Underwood</b>	Characterizing Atomic Environments in Disordered Alloys by Electron Spectroscopy using a Charge-transfer Model
14:00-14:30	359	<b>H. F. Ding</b>	Atom Positioning: From Self Assembly to Quantum Control
14:30-15:00	360	<b>Jonathan Berson</b>	A Novel Approach to Nanofabrication by Surface Self-Assembly and Molecular Nanoionics
15:00-15:30	<b>Session Break</b>		
			<b>Chair: Tom Underwood</b>
15:30-16:00	362	<b>Joseph Chang</b>	Printed Electronics on Flexible Substrates: Challenges and Applications
16:00-16:30	363	<b>Ibrahim Abdullah</b>	Reinforcement of Acrylated Epoxidised Natural Rubber with in-situ Generated Silic
16:30-17:00	364	<b>Eunyoung Kim</b>	Conjugated polymers for flexible energy harvesting devices
17:00-17:30	365	<b>Zhaosheng Li</b>	Current state of promising photoelectrode materials for solar hydrogen production via water splitting
18:00-Night	<b>Dinner and Activities Recommended</b>		

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**Hanra (CC3DMR 2013 Conference Room 8, 8<sup>th</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Yousuke Ooyama</b>
08:30-09:00	367	<b>Ming-Way Lee</b>	New Semiconductor Nanoparticle Materials as Broadband Sensitizers for Solar Cells
09:00-09:30	369	<b>Hsieh-Cheng Han</b>	The Effects of Fluorine-contained Molecules on Improving the Anomalous S-shape I-V curve in polymer solar cell
09:30-10:00	370	<b>Fan Bin</b>	Mass production of organic solar cells with polymethine dyes
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Ming-Way Lee</b>
10:30-11:00	371	<b>Yousuke Ooyama</b>	Development of D- $\pi$ -A Dye Sensitizers with Pyridyl Group for High-Performance Dye-Sensitized Solar Cells
11:00-11:30	373	<b>Hwan Kyu Kim</b>	Molecular Design Criteria on Organic Semiconductors for High Efficiency Organic Dye-sensitized Solar Cells
11:30-12:00	374	<b>Jianyong Ouyang</b>	Carbon Nanomaterials for High-Performance Dye-Sensitized Solar
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Hyung Joon Kim</b>
13:30-14:00	375	<b>Nobuyasu Adachi</b>	Preparation and Magnetic Properties of Bismuth Iron Garnet for High Resolution Magneto-optical Imaging
14:00-14:30	377	<b>Naoshi Ikeda</b>	Magneto Electric Interaction in Polar Charge Ordered Material $\text{LuFe}_2\text{O}_4$
14:30-15:00	379	<b>James Lloyd-Hughes</b>	Ultrafast spectroscopy of magnetoelectric multiferroics
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Nobuyasu Adachi</b>
15:30-16:00	381	<b>Hyung Joon Kim</b>	New transparent oxides (Ba,La)SnO <sub>3</sub> with high electrical mobility at room temperature
16:00-16:30	383	<b>J. F. Lopez-Barbera</b>	Magnetoplasmonic Effects in Tailored Pure Ferromagnetic Nanostructures
16:30-17:00	385	<b>Seiichiro Onari</b>	Orbital order and fluctuations in iron-based superconductors
17:00-17:15	387	<b>Yong Seok Kim</b>	A highly conductive anode of Sb-doped SnO <sub>2</sub> nanofibers for high-performance Li-ion batteries
17:15-17:30	389	<b>Xiaoyan Liu</b>	Hierarchical Titania Coated Carbon Nanofibrous Material Derived from Natural Cellulose Substance
18:00-Night	<i>Dinner and Activities Recommended</i>		

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**Ara (CC3DMR 2013 Conference Room 9, 8<sup>th</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Jong-Lam Lee</b>
08:30-09:00	390	<b>Akira SAITO</b>	Applications of Photon-Matter Interaction in Interdisciplinary Fields: From the mystery of the butterfly's color To the elemental analysis @ 1 nm order
09:00-09:30	393	<b>Chi-Feng Lin</b>	Donor engineering of planar heterojunction organic photovoltaic device with high open circuit voltage
09:30-10:00	394	<b>Roie Yerushalmi</b>	Post-Growth Surface Doping of Silicon Nanostructures
10:00-10:30	<b>Session Break</b>		
			<b>Chair: Akira SAITO</b>
10:30-11:00	395	<b>Jong-Lam Lee</b>	Design of large scale light extraction structures for organic light emitting diodes
11:00-11:30	397	<b>Xiulan Hu</b>	Aqueous Solution Synthesis and Characterization of Semiconductor Functional Materials
11:30-12:00	398	<b>Daniele Chiappe</b>	Structural and chemical stabilization of epitaxial silicene
12:00-13:30	<b>Lunch Break</b>		
			<b>Chair: Maohai Xie</b>
13:30-14:00	400	<b>X. Moya</b>	Electrocaloric and barocaloric effects in multicaloric BaTiO <sub>3</sub>
14:00-14:30	401	<b>Mohamed Chaker</b>	Barium Strontium Titanate Thin Films for Tunable Microwave Device Applications
14:30-15:00	402	<b>Kunihisa Tashiro</b>	Magnetic energy harvesting – power from environmental magnetic field
15:00-15:30	<b>Session Break</b>		
			<b>Chair: Mohamed Chaker</b>
15:30-16:00	404	<b>Maohai Xie</b>	Growth and Anisotropic Surface States of High-Index Topological Insulator Thin Films
16:00-16:30	406	<b>K. Miyamoto</b>	Peculiar spin texture of Topological insulators and Rashba systems probed by spin- and angle-resolved photoemission spectroscopy
16:30-17:00	408	<b>Chih Wei Luo</b>	Ultrafast dynamics in topological insulators
17:00-17:15	409	<b>Stephanie Kong Lee Keong</b>	Redox Copolymerization of Acrylonitrile and Styrene: Synthesis, Characterization, and thermal properties
17:15-17:30	410	<b>Chandra Liza</b>	Effect of Photo Degradation Using Xenon Arc on Morphological Structure of Linier Low Density Polyethylene-Starch-Clay Nanocomposite of Plastic Degradable Film
18:00-Night	<b>Dinner and Activities Recommended</b>		

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**Ora (CC3DMR 2013 Conference Room 10, 8<sup>th</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Vijay Narayan</b>
08:30-09:00	411	<b>Yen-Peng Ho</b>	Selective Proteotypic Peptide Analysis of Pathogens Using Magnetic Nanoparticles and Mass Spectrometry
09:00-09:30	412	<b>Lior Embon</b>	Investigation of nano-scaled magnetic phenomena using a novel SQUID-on-tip based scanning microscope
09:30-10:00	413	<b>H. Matsuyama</b>	Spin-polarized scanning tunneling microscopy operating in modulating tip magnetization mode
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Yen-Peng Ho</b>
10:30-11:00	415	<b>Vijay Narayan</b>	Thermoelectric Properties of Interacting Two-Dimensional Electron Systems
11:00-11:30	416	<b>Koichiro Yaji</b>	Spin-polarized metallic surface-state bands on germanium surfaces
11:30-12:00	418	<b>A. Sawada</b>	Phase Transition from Quantum Hall State to Insulator State Evoked from Nuclear Polarization by Current Pumping
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Dongyan Xu</b>
13:30-14:00	422	<b>Muhammad Abbas Ahmad Zaini</b>	In-depth studies of cattle-manure-compost activated carbons
14:00-14:30	423	<b>Jun Ding</b>	“Unexpected” ferromagnetic and multiferroic behaviors in ZnO-based materials
14:30-15:00	425	<b>Koji Kita</b>	Voltage Control of Magnetic Anisotropy of Ferromagnetic/Dielectric Stacks
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Jun Ding</b>
15:30-16:00	428	<b>Tsuyoshi Takami</b>	Peculiar Physical Properties Observed in Functional Cobalt Oxides
16:00-16:30	429	<b>Ryuji Okazaki</b>	Optically-Controlled Thermoelectric Properties in Oxide Materials
16:30-17:00	430	<b>Shigetoshi Ohshima</b>	Fabrication of Low Rs YBCO Thin Films under a High DC Magnetic Field and Its Application to NMR Pick-up Coils
17:00-17:30	432	<b>Dongyan Xu</b>	Thermal Transport in Nanostructured Thermoelectric Materials
18:00-Night	<i>Dinner and Activities Recommended</i>		

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**Ball Room 1 (CC3DMR 2013 Conference Room 1, 2<sup>nd</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Yasuhiro Koike</b>
08:30-09:00	433	<b>Masatoshi Murase</b>	Towards an integrated perspective of life itself
09:00-09:30	434	<b>Ting-Yu Liu</b>	A Nanotechnology Platform Based on Surface-Enhanced Raman Spectroscopy for Rapid Detection of Microbes
09:30-10:00	436	<b>Bing Yan</b>	Toward A Possible Human Control of the Emerging Nanotoxicity
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Masatoshi Murase</b>
10:30-11:00	437	<b>Yasuhiro Koike</b>	Novel Photonics Polymer for New Generation Information Technology
11:00-11:30	440	<b>Masayoshi Higuchi</b>	Electro- and Photo-Chemical Properties of Organic-Metallic Hybrid Polymer Films
11:30-12:00	442	<b>Toshihiro Kawakatsu</b>	Dynamics of complex domains in polymer-surfactant systems
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Yumi H. Ikuhara</b>
13:30-14:00	444	<b>Hitoshi Ogihara</b>	Spraying Nanoparticle Suspensions to Prepare Transparent Superhydrophobic Films
14:00-14:30	446	<b>Hiroshi Uyama</b>	Fabrication of Functional Porous Polymeric Materials by Phase Separation
14:30-15:00	448	<b>Yasuo Tomita</b>	Photopolymerizable Nanocomposite Materials for Photonic Applications
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Hitoshi Ogihara</b>
15:30-16:00	450	<b>Yumi H. Ikuhara</b>	Chemical processing of Li battery- related crystals and the microstructures
16:00-16:30	452	<b>J. M. Xue</b>	Ultrasmall Fe <sub>3</sub> O <sub>4</sub> -carbon nanocomposites for Superior High Rate Battery Applications
16:30-17:00	453	<b>Keisuke Tominaga</b>	Characterization of Condensed Material by Terahertz Radiation Spectroscopy
17:00-17:30	455	<b>Masaharu Oshima</b>	Electronic structures of green nano-devices revealed by synchrotron radiation nano-spectroscopy: from Li ion battery to graphene FET
17:30-17:45	458	<b>Chung-Kuan Lin</b>	Electron Transport and The Realization of FET Devices on Novel Granular Carbon Materials
18:00-Night	<i>Conference Banquet</i>		

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**Ball Room 2 (CC3DMR 2013 Conference Room 2, 2<sup>nd</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Cinzia Casiraghi</b>
08:30-09:00	460	<b>Zhenyu Li</b>	Mechanims of Graphene Growth on Metal Surfaces
09:00-09:30	461	<b>Tung-Yuan Yung</b>	The Decorated Graphene Sheets with Nanoparticles for Energy Applications
09:30-10:00	462	<b>Hsiang-Chen Chui</b>	Surface-enhanced Raman Scattering of Suspended Monolayer Graphene
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Zhenyu Li</b>
10:30-11:00	465	<b>Cinzia Casiraghi</b>	Raman Spectroscopy of Strained and Defected Graphene
11:00-11:30	466	<b>Chin-Lung Kuo</b>	First principles study on the modulation of the electronic property of graphene via the defects and impurities in the SiO <sub>2</sub> substrate
11:30-12:00	467	<b>D. Y. Tang</b>	Graphene-like 2D-nanomaterials for ultrafast laser photonics
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Keiji Sasaki</b>
13:30-14:00	468	<b>Tupei Chen</b>	Physical properties and device applications of semiconductor nanocrystals and metal nanoparticles
14:00-14:30	469	<b>Makoto Sakurai</b>	Nano-scale surface modification and analysis using highly charged ions
14:30-15:00	470	<b>M. Okumura<sup>1</sup></b>	Theoretical investigation of the Au nanoparticle catalysts
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Tupei Chen</b>
15:30-16:00	471	<b>Keiji Sasaki</b>	Nanoscale Photon Shaping with Engineered Plasmonic Materials
16:00-16:30	473	<b>Chunguang Du</b>	Quantum Surface plasmon resonance system based on electromagnetically-induced transparency
16:30-17:00	474	<b>Kyung Min Byun</b>	Biosensing and bioimaging applications of dielectric and metallic nanostructures on plasmonic substrates
17:00-17:30	476	<b>Young-Wan Choi</b>	Nano Plasmonics Sensor Structures Based on Integrated Photonics
18:00-Night	<i>Conference Banquet</i>		

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<b>Ball Room 3 (CC3DMR 2013 Conference Room 3, 2<sup>nd</sup> floor)</b>			
<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: S. H. Oh</b>
08:30-09:00	478	<b>Lei Xu</b>	Coalescence of Pickering Emulsion Droplets Induced by an Electric Field
09:00-09:30	479	<b>W. J. Zhang</b>	Surface Nanostructuring of CVD Diamond and Cubic Boron Nitride Films by Bias-assisted RIE
09:30-10:00	480	<b>Takeshi Kato</b>	Ion beam irradiation for the fabrication of planer bit patterned media
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Lei Xu</b>
10:30-11:00	482	<b>S. H. Oh</b>	Quantitative Mapping and Real-time Imaging of Polarization in Nanoscale Thin Film Devices
11:00-11:30	484	<b>Widad Ismail</b>	New Material Miniaturization for Microstrip Antenna using Mg-Mn Ferrite Substate
11:30-12:00	487	<b>Jae-Ho Chung</b>	Role of Magnetic Anisotropy in Field-induced Magnetolectric Coupling of Hexagonal Ferrites
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Joung Real Ahn</b>
13:30-14:00	489	<b>Xiaojun Wu</b>	Band-Gap Engineering via Tailored Line-Defect in Two-Dimensional Monolayer
14:00-14:30	490	<b>Yuji Noguchi</b>	Defect-polarization control for oxide ferroelectric single crystals
14:30-15:00	492	<b>Eisuke Tokumitsu</b>	Use of low-temperature-deposited high-k gate insulators for SiC power MOSFETs.
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Xiaojun Wu</b>
15:30-16:00	494	<b>Joung Real Ahn</b>	Highly Mechanically Stable Three Dimensional Freestanding Graphene Architecture
16:00-16:30	496	<b>Guocai Dong</b>	Graphene formation on metal surfaces investigated by in-situ STM
16:30-17:00	498	<b>Zonghai Hu</b>	“Substrate Engineering” of the Properties of Graphene
17:00-17:30	499	<b>Daniel H. C. Chua</b>	Carbon nanotube, graphene and hybrid carbon-based electron emitters
18:00-Night	<i>Conference Banquet</i>		

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**Woodo (CC3DMR 2013 Conference Room 4, 2<sup>nd</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: M. H. Acar</b>
08:30-09:00	500	<b>Michael Wübbenhorst</b>	Ultrastable glasses and hidden liquid phases induced by organic molecular beam techniques
09:00-09:30	502	<b>Takuji Ogawa</b>	Single molecular electronics for functionality emergence
09:30-10:00	503	<b>Chunlei Guo</b>	The black and colored metals and applications
10:00-10:30	<b>Session Break</b>		
			<b>Chair: Takuji Ogawa</b>
10:30-11:00	504	<b>Shigehito Isobe</b>	TEM study on Hydrogen Storage Materials with High Hydrogen Capacity
11:00-11:30	505	<b>M. H. Acar</b>	Designing of Fuel Cell Membranes
11:30-12:00	507	<b>Minoru Mizuhata</b>	Nanosized active materials for secondary batteries fabricated by the liquid phase deposition
12:00-13:30	<b>Lunch Break</b>		
			<b>Chair: Sung-Min Choi</b>
13:30-14:00	509	<b>M. A. Van Hove</b>	Adsorption structures of large molecules on single-crystal metal surfaces
14:00-14:30	511	<b>Hitoshi Kasai</b>	Fabrication of Organic Nanocrystals for Application as Pure Nano Drugs
14:30-15:00	513	<b>Isao Watanabe</b>	Introduction of the RIKEN-RAL Muon Facility and Applications of Muons to Organic Molecules
15:00-15:30	<b>Session Break</b>		
			<b>Chair: M. A. Van Hove</b>
15:30-16:00	515	<b>Kenji Hara</b>	Densely Packed Monolayer of Metal-Diisocyanide on Gold Surface; Preparation and Application in Catalysis
16:00-16:30	517	<b>Sung-Min Choi</b>	Neutron and X-ray Investigations for Hierarchical Self-Assemblies of 1D Nanoparticles in Soft Matter
16:30-17:00	518	<b>Tatyana Bendikov</b>	XPS Study of Noble Metal Nanoparticles
17:00-17:15	520	<b>Qun Cai</b>	Simultaneous Formation of Hexagonal and Tetragonal islands of Er silicide on a Pre-patterned Si(001) Substrate Surface
17:15-17:30	521	<b>W. Brullot</b>	Hybrid Nanoparticle Networks (HyNANs): A modular approach to multifunctional nanomaterials
18:00-Night	<b>Conference Banquet</b>		



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<b>Chooja (CC3DMR 2013 Conference Room 5, 2<sup>nd</sup> floor)</b>			
<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: K. S. Yeo</b>
08:30-09:00	523	<b>Balázs Hetényi</b>	Towards a Modern Theory of DC Conductivity
09:00-09:30	524	<b>Jean-Pierre Locquet</b>	Novel elements for future electronic components
09:30-10:00	525	<b>Hiroshi Watanabe</b>	Importance of Interface on device characterization/operation
10:00-10:30	<b>Session Break</b>		
			<b>Chair: Balázs Hetényi</b>
10:30-11:00	527	<b>Yoshinori Matsumoto</b>	CMOS sensor and circuit for networked radiation monitoring system
11:00-11:30	530	<b>K. S. Yeo</b>	Charge-balancing schemes for CMOS-based neurostimulation circuit design
11:30-12:00	531	<b>Kyeong-Sik Min</b>	CMOS circuit with small area and low complexity for emulating memristive behavior
12:00-13:30	<b>Lunch Break</b>		
			<b>Chair: Han-Yong Jeon</b>
13:30-14:00	533	<b>Justyn Jaworski</b>	A Novel Polydiacetylene Liposome Based Cell Adhesion Assay
14:00-14:30	534	<b>Sung Ho Ryu</b>	Aptamer as an emerging capturing molecule for diagnostics, therapeutics and researches
14:30-15:00	535	<b>Tzu-Ming Liu</b>	In vivo insulin metabolism imaging with human insulin-gold nanodots
15:00-15:30	<b>Session Break</b>		
			<b>Chair: Justyn Jaworski</b>
15:30-16:00	536	<b>Han-Yong Jeon</b>	PLA Application to Green Geosynthetics through Bio-Degradability and Performance Evaluations
16:00-16:30	538	<b>S. Y. Yang</b>	Bio-functionalized Magnetic Nanoparticles for in-vitro and in-vivo Diagnosis of Colorectal Cancer
16:30-17:00	540	<b>Yu-Shih Tsou</b>	Biosensing based on a liquid crystal and polymer composite film
17:00-17:30	541	<b>Shinya Takaishi</b>	Functionalization of Coordination Polymers by Charge Bistability
18:00-Night	<b>Conference Banquet</b>		

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**Mara (CC3DMR 2013 Conference Room 6, 2<sup>nd</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Richard B. Jackman</b>
08:30-09:00	543	<b>Sung Ha Park</b>	Fabrication Methods and Applications of DNA Nanostructures
09:00-09:30	545	<b>Dongyuan Zhao</b>	Hydrothermal Synthesis of Ordered Mesoporous Materials for Application
09:30-10:00	547	<b>M. Kajihara</b>	Microstructure evolution of conductor alloys under application conditions of electronics
10:00-10:30	<b>Session Break</b>		
			<b>Chair: Sung Ha Park</b>
10:30-11:00	549	<b>Wen-Bin Jian</b>	Modulation of Charge Transport and Device Performance of Nanocrystal-Assembled Bulks
11:00-11:30	551	<b>Young-Kyun Kwon</b>	Semiconducting Property of Gold Nanowires: <i>Ab initio</i> Study
11:30-12:00	552	<b>Richard B. Jackman</b>	Nanodiamonds and nanocarbons for biotechnology and regenerative medicine
12:00-13:30	<b>Lunch Break</b>		
			<b>Chair: Dubravka Šišak Jung</b>
13:30-14:00	554	<b>Jochen Feldmann</b>	Photocatalysis with Semiconductor Nanocrystals
14:00-14:30	555	<b>Koichi Yamashita</b>	Theoretical Study on the Structural and Electronic Properties of Photocatalytic Materials
14:30-14:45	556	<b>Michael K.H. Leung</b>	One-pot synthesis of boron self-doped TiO <sub>2</sub> nanosheets of high photocatalytic activity
14:45-15:00	558	<b>Rehana Razali</b>	One-pot synthesis of Ag decorated ZnO microspheres in TEA media with enhanced photocatalytic activity
15:00-15:30	<b>Session Break</b>		
			<b>Chair: Jochen Feldmann</b>
15:30-16:00	559	<b>H. Kaiju</b>	Fabrication of Nanoscale Junctions Utilizing Thin-Film Edges and Their Structural and Electrical Properties
16:00-16:30	561	<b>Amanullah Fatehmulla</b>	Synthesis and characterization of low resistive nano CdS films for optoelectronic applications
16:30-17:00	562	<b>A. J. Kenyon</b>	Resistive switching in silicon oxide
17:00-17:15	563	<b>C.-H. Chou</b>	Nanomaterials-modified screen printed ultramicroelectrode in gas sensing application
17:15-17:30	564	<b>Dubravka Šišak Jung</b>	Performance of MYTHEN detectors in the structure analysis of light atom compounds
17:30-18:00	566	<b>Bin Xiang</b>	In-situ lasering in TEM
18:00-Night	<b>Conference Banquet</b>		

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**Biyang (CC3DMR 2013 Conference Room 7, 2<sup>nd</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Tae-Soo You</b>
08:30-09:00	567	<b>Yasuhiro Takaya</b>	Fundamental Study on Chemical Mechanical Polishing of Copper Wafer Surface using Water-soluble Fullerenol as a Functional Molecule
09:00-09:30	570	<b>Man Shing Wong</b>	Novel Fused Aromatic-Based Organic Semiconducting Materials for Optoelectronic Applications
09:30-10:00	571	<b>Pooi See LEE</b>	Hybrid nanomaterials for electrochemical devices in energy management
10:00-10:30	<b>Session Break</b>		
			<b>Chair: Pooi See LEE</b>
10:30-11:00	572	<b>Takehito Nakano</b>	Novel Electronic Properties of Alkali-Metal Clusters in Regular Nanospace of Zeolite Crystals
11:00-11:30	574	<b>Albert W. M. Lee</b>	Benzobisoxadisiloles as Synthetic Equivalents of 1,3- and 1,4- Benzdiyne. Synthesis of Oxadisilole Fused Acenes, Acenequinones and Triptycenes
11:30-12:00	575	<b>Tae-Soo You</b>	Combined Effect of Chemical Pressure and Valence Electron Concentration through the Electron-Deficient Li Substitution on the $RE_4LiGe_4$ ( $RE = La, Ce, Pr, \text{ and } Sm$ ) System
12:00-13:30	<b>Lunch Break</b>		
			<b>Chair: Kyuman Cho</b>
13:30-14:00	577	<b>Koji Ando</b>	Ab Initio Electron Transfer Pathway Analysis in Biomolecules
14:00-14:30	579	<b>R. Miyake</b>	Functionlization of crystalline materials: flexible crystalline nano-cavities of metallo-macrocyles with dipeptide ligands
14:30-15:00	581	<b>W. H. Abd. Majid</b>	The dynamic of electrical properties in the organic semiconductor heterostructure based on organometallic hybrid
15:00-15:30	<b>Session Break</b>		
			<b>Chair: Koji Ando</b>
15:30-16:00	528	<b>A. A. Manaf</b>	Fabrication and characterization of micro fluidic-based biomimetic flow sensor inspired from fish canal neuromast
16:00-16:30	585	<b>Kyuman Cho</b>	Novel Interferometer Schemes for Biosensing
16:30-17:00	587	<b>Jae-Yoon Sim</b>	Microwave-Excited Portable Plasma Driver for Biomedical Applications
17:00-17:30	588	<b>Xinrui Niu</b>	Multi-scale Contact Damage in Dental Multilayers
18:00-Night	<b>Conference Banquet</b>		

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**Hanra (CC3DMR 2013 Conference Room 8, 8<sup>th</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Kazuyuki Koike</b>
08:30-09:00	589	<b>Tomofumi Susaki</b>	Work function control in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> and in MgO/SrTiO <sub>3</sub>
09:00-09:30	591	<b>Kensuke Nakajima</b>	Terahertz Wave Emission from Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + Thin Film Intrinsic Josephson Junction Stack
09:30-10:00	593	<b>Rong Huang</b>	Atomic-level imaging of light elements in advanced materials by Cs-corrected STEM
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Tomofumi Susaki</b>
10:30-11:00	595	<b>K. Amemiya</b>	Magnetic and Crystalline Structures at the Surface and Interface of Ultrathin Films Studied by X-ray Absorption Spectroscopy
11:00-11:30	597	<b>Kazuyuki Koike</b>	Multifunction Spin-SEM for Nano-Structured Magnetic Materials
11:30-12:00	599	<b>Ing-Shouh Hwang</b>	Condensation of Dissolved Gas Molecules at a Hydrophobic/Water Interface
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Yonggang Zhao</b>
13:30-14:00	601	<b>Chun-Gang Duan</b>	Ferroelectricity induced by interatomic magnetic exchange interaction
14:00-14:30	602	<b>Jun Okamoto</b>	Magnetic orderings of Mn and Co oxides studied by resonant soft X-ray scattering and spectroscopy
14:30-15:00	604	<b>Victor Fleurov</b>	State of art of the theory and experiment in dilute magnetic semiconductors and dielectric
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Victor Fleurov</b>
15:30-16:00	605	<b>Yonggang Zhao</b>	Electric-field control of magnetism in multiferroic heterostructures
16:00-16:30	607	<b>Zhuan Xu</b>	Diluted magnetic semiconductor with T <sub>C</sub> up to 200 K in Mn doped (La,Sr)CuSO system
16:30-17:00	609	<b>C. W. Bark</b>	Switchable Two-Dimensional Electron Gas at LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Heterointerfaces
17:00-17:30	610	<b>A. Ruotolo</b>	Magnetic memristors
17:30-18:00	611	<b>Israel Felner</b>	Superconducting and peculiar magnetic properties of amorphous carbon
18:00-Night	<i>Conference Banquet</i>		

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**Ara (CC3DMR 2013 Conference Room 9, 8<sup>th</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
<b>Chair: H. Sakuma</b>			
08:30-09:00	613	<b>Norbani Abdullah</b>	Synthetic Design and Characterisation of Spin-Crossover Metallomesogens
09:00-09:30	615	<b>Takayuki Kawashima</b>	Creation of Functional Molecules Utilizing Characteristics of Boron
09:30-10:00	617	<b>Junho Choi</b>	DLC coating on a micro-trench using bipolar PBII
10:00-10:30	<b>Session Break</b>		
<b>Chair: Junho Choi</b>			
10:30-11:00	618	<b>H. Sakuma</b>	Growth of Faceted Fine Particles by Gas Flow Sputtering
11:00-11:30	620	<b>Waqar Ahmed</b>	Piezoelectric nanorods for imaging of oil reserves
11:30-12:00	622	<b>Jialiang Zhang</b>	Recent Research Progresses on BaTiO <sub>3</sub> -Based Lead-Free Piezoelectric Ceramics
12:00-13:30	<b>Lunch Break</b>		
<b>Chair: Sung-eui Yoon</b>			
13:30-14:00	624	<b>Yo-Sung Ho</b>	Depth Map Refinement Using Mismatch Handling for Arc Camera Arrangement
14:00-14:30	626	<b>Osamu Matoba</b>	Holographic 3D Display by 1D Spatial Light Modulation
14:30-15:00	628	<b>Yong-Seok Hwang</b>	Analysis of diffraction characteristics of the multiplexed holographic gratings by use of nonlocal diffusion models for VHOE-based multi-view 3-D displays
15:00-15:30	<b>Session Break</b>		
<b>Chair: Yo-Sung Ho</b>			
15:30-16:00	630	<b>YongKeun Park</b>	Scattering super-lens for sub-wavelength focusing and imaging
16:00-16:30	631	<b>Takashi Kakue</b>	Fast-computational method and system for computer holography
16:30-17:00	633	<b>V. V. Petrov</b>	High Resolution Ultrasonic System for 3D Image Capturing and Reconstruction
17:00-17:30	635	<b>Jun Tanida</b>	Compound-Eye Imaging Systems for Computational Multiplex Imaging
17:30-18:00	637	<b>Sung-eui Yoon</b>	Scalable Rendering Techniques
18:00-Night	<b>Conference Banquet</b>		

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**Ora (CC3DMR 2013 Conference Room 10, 8<sup>th</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Xiaotao Hao</b>
08:30-09:00	638	<b>Syngye Todo</b>	Large-scale Monte Carlo Study for Exotic Phase Transitions of Strongly Correlated Quantum Magnets
09:00-09:30	639	<b>Indra Putra Almanar</b>	Mathematical model of energy transferred in a single ball motion in agitation mode
09:30-10:00	640	<b>Kentaroh Yoshida</b>	Application of AdS/CFT duality to condensed matter physics: Lifshitz space and aging phenomena
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Syngye Todo</b>
10:30-11:00	642	<b>Xiaotao Hao</b>	Correlating morphology and electronic structure in thin films of heterogeneous polymer blends
11:00-11:30	644	<b>Hyeun-Jong Bae</b>	Hydrolytic degradation of cellulose using Nano-Complexed enzymes
11:30-12:00	645	<b>Jeong Beom Kim</b>	Graphene-based culture system can open new biomedical applications for induced pluripotent stem cells
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Z. Othaman</b>
13:30-14:00	646	<b>Masashi Hasegawa</b>	Molecular Routes Syntheses of Nano-structured Carbon-based Compounds in High Pressures and Temperatures
14:00-14:30	647	<b>David G. Churchill</b>	Recent synthetic fluorophore chemistry relating to molecular neurodegenerative disease research
14:30-15:00	649	<b>Jacob Sagiv</b>	Spatially Confined Electrochemistry in a Patterned Single Layer Superionic Conductor
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Masashi Hasegawa</b>
15:30-16:00	650	<b>Heesuk Rho</b>	Raman studies of single semiconductor nanowires
16:00-16:30	651	<b>Z. Othaman</b>	The Growth of III-V Semiconductor Nano Structures Using MOVPE
16:30-17:00	653	<b>Duangmanee Wongratanaphisan</b>	Preparation of Nanocopper Oxides by Microwave and Characterization
17:00-17:15	655	<b>Timur Sh. Atabaev</b>	Multifunctional Mesoporous Silica Nanoparticles for Biomedical Applications
17:15-17:30	656	<b>Stijn Van Cleuvenbergen</b>	Nonlinear optical characterization of structure and crystal growth of metal-organic frameworks
18:00-Night	<i>Conference Banquet</i>		

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**Ball Room 1 (CC3DMR 2013 Conference Room 1, 2<sup>nd</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Guiqin Li</b>
08:30-09:00	657	<b>Tae Seok Seo</b>	2D and 3D graphene for biosensing applications
09:00-09:30	659	<b>Taiichi Otsuji</b>	Challenges to Create Graphene Terahertz Lasers
09:30-10:00	660	<b>Xingyu Gao</b>	Nanomesh to epitaxial graphene
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Taiichi Otsuji</b>
10:30-11:00	662	<b>Guiqin Li</b>	Coupling strength effect on shot noise in the graphene devices
11:00-11:30	663	<b>Xin Wang</b>	Nano-Tungsten Carbide Decorated Graphene as Co-catalysts for Enhanced Hydrogen Evolution on Molybdenum Disulfide
11:30-11:45	664	<b>S. H. Basri</b>	Tuning the Optoelectronics Properties of Transparent Zinc Oxide by Transition Metal Doping
11:45-12:00	665	<b>H. Asgharzadeh</b>	Densification and microstructural evolution during sintering of nanocrystalline Al6063 powder
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Xin Wang</b>
13:30-14:00	666	<b>Hideki Fujiwara</b>	Quasi-single mode random laser
14:00-14:30	668	<b>Akira Tsuchiya</b>	Modeling Issues of On-Chip Transmission-Line for Terahertz Integrated Circuit
14:30-14:45	670	<b>Tei Tagg</b>	Novel Monosubstituted Azo-Ferrocene Derivatives as Organic Diodes
14:45-15:00	671	<b>Yen Hsun Su</b>	Toward Optical Properties of Au-Cu Bimetallic Alloy Nanoparticles from Quasi-chemical Model
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Hideki Fujiwara</b>
15:30-16:00	672	<b>Zuhailawati Hussain</b>	Deformation for Nanostructuring Metal Alloys and Metal Matrix Composite
16:00-16:30	675	<b>Yu-Shu Wu</b>	Valleytronics in Gapped Graphene: Applications in Quantum Computing / Quantum Communications / FETs
16:30-17:00	676	<b>Güldem Kartal</b>	Production of Hard Transition Metal Borides via Cathodic Reduction and Thermal Diffusion based boriding (CRTD-Bor)
17:00-17:30	678	<b>Jin Won Seo</b>	Integration of carbon nanotubes in hierarchical structural materials
18:00-Night	<i>Dinner and Activities Recommended</i>		

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**Ball Room 2 (CC3DMR 2013 Conference Room 2, 2<sup>nd</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Jong-Ho Lee</b>
08:30-09:00	680	<b>Federico Rosei</b>	Strategies for Controlled Assembly at the Nanoscale
09:00-09:30	682	<b>Keisuke Ohdaira</b>	Formation of Polycrystalline Silicon Films by Flash Lamp Annealing
09:30-10:00	684	<b>Shu-Pao Wu</b>	Colorimetric Detection of Fe <sup>3+</sup> Ions Using Pyrophosphate Functionalized Gold Nanoparticles
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Federico Rosei</b>
10:30-11:00	685	<b>V. A. L. Roy</b>	Materials and devices for floating gate flash memories
11:00-11:30	686	<b>Jong-Ho Lee</b>	Characterization of 2-D and 3-D NAND flash memory devices
11:30-12:00	691	<b>Shlomo Ruschin</b>	Anisotropic Nanoporous Materials and their Application to Chemical Sensing
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: V. A. L. Roy</b>
13:30-14:00	693	<b>Tetsuo Kodera</b>	Silicon quantum dot devices toward spin-based quantum information processing
14:00-14:30	694	<b>X. J. Yang</b>	Composition and electrical property studies on individual and coupled GeSi quantum dots by scanning probe microscopy based techniques
14:30-15:00	695	<b>Naho Itagaki</b>	Sputter Deposition of Semiconductor-Grade ZnO Based Materials on Lattice Mismatched Substrates for Optoelectronic Applications
15:00-15:30	<i>Session Break</i>		
			<b>Chair: Tetsuo Kodera</b>
15:30-16:00	697	<b>Takashi Yamamoto</b>	Magnetic Nanoassembly of Inorganic Nanosheets
16:00-16:30	699	<b>Li Lu</b>	Lead-free piezoelectric ceramics
16:30-16:45	700	<b>Ming-Yu Li</b>	Control of Gold Droplets and Nanostructures; Time, Temperature and Deposition Amount
16:45-17:15			
18:00-Night	<i>Dinner and Activities Recommended</i>		



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<b>Ball Room 3 (CC3DMR 2013 Conference Room 3, 2<sup>nd</sup> floor)</b>			
<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Y. F. Miura</b>
08:30-09:00	702	<b>Hui-Qiong Wang</b>	Investigation of the interfaces between hexagonal ZnO and cubic MgO
09:00-09:30	703	<b>B. Rosenstein</b>	Electron interactions effects in systems possessing Dirac points
09:30-10:00	705	<b>Yue-Lin Huang</b>	Electron-phonon coupling in ZnO nanostructures
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Yue-Lin Huang</b>
10:30-11:00	707	<b>Y. F. Miura</b>	The Effect of Hydrothermal Treatment on Merocyanine Dye LB Films
11:00-11:30	709	<b>C. C. Ling</b>	Thermally induced changes in conduction types of arsenic doped zinc oxide materials
11:30-12:00	709	<b>S. Okuma</b>	Vortex Dynamics in Amorphous Superconducting Films: Novel Dynamic Transitions of Driven Abrikosov Lattice
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: C. C. Ling</b>
13:30-14:00	713	<b>M. D. Lan</b>	Anisotropy of RE <sub>x</sub> Ca <sub>1-x</sub> Fe <sub>2</sub> As <sub>2</sub> (RE = La, Ho, Dy, Gd, Pr; 0.16 < x < 0.22) Superconducting Single Crystals
14:00-14:30	714	<b>Masaki Nakano</b>	Thick film rare-earth permanent magnets applied for MEMS
14:30-15:00	716	<b>Changzheng Wu</b>	Regulating the electrical properties of quasi-two-dimensional graphene-like materials for planar energy storage applications
15:00-15:30	<i>Session Break</i>		
18:00-Night	<i>Dinner and Activities Recommended</i>		

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Woodo (CC3DMR 2013 Conference Room 4, 2 <sup>nd</sup> floor)			
Time	Page	Speaker	Talk Title
			<b>Chair: A. Ino</b>
08:30-09:00	717	<b>Masatomo Yashima</b>	Precise Structure Analysis of Ceramic Materials: Structure-Property Correlation through the Chemical Bonding and Ion-Diffusion Pathway
09:00-09:30	720	<b>Mohd Fadzil Ain</b>	Dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics in the microwave frequency range
09:30-10:00	721	<b>Azusa Muraoka</b>	Theoretical studies on the edge effect of transition metal complex
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Masatomo Yashima</b>
10:30-11:00	723	<b>A. Ino</b>	Doping dependence of low-energy quasiparticle excitations in a bilayer cuprate Bi2212
11:00-11:30	725	<b>Isao Kimura</b>	Deposition of calcium phosphate on titanium in a confined space
11:30-12:00	727	<b>Guan-Yeow Yeap</b>	Latest Findings on 1,2,3-Triazole Cored Liquid Crystals
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Guan-Yeow Yeap</b>
13:30-14:00	728	<b>Masaru Tanaka</b>	Control of human cancer cell behavior using 2D/3D biocompatible polymers
14:00-14:30	729	<b>Kosuke Tsukada</b>	Generation of Oxygen Gradients in Microfabricated Devices for Hypoxia Research <i>in vitro</i>
14:30-15:00	731	<b>Afidah Abdul Rahim</b>	Green corrosion inhibitors : Highlights and challenges
15:00-15:30	<i>Session Break</i>		
18:00-Night	<i>Dinner and Activities Recommended</i>		

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<b>Chooja (CC3DMR 2013 Conference Room 5, 2<sup>nd</sup> floor)</b>			
<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Jianrong Qiu</b>
08:30-09:00	732	<b>Yuan Wang</b>	Nanocomposite Catalysts Assembled With Metal Nanoclusters
09:00-09:30	733	<b>Yuan-Ron Ma</b>	Conference Characterization and applications of various one-dimensional metal-oxide nanostructures
09:30-10:00	734	<b>Gang Chen</b>	Particle Structure in Disordered Ensembles Extracted from High-Throughput Fluctuation X-ray Scattering
10:00-10:30	<i>Session Break</i>		
			<b>Chair: Yuan-Ron Ma</b>
10:30-11:00	735	<b>Kazue Kurihara</b>	Confined Liquids Studied by Surface Forces and Shear Resonance Measurements
11:00-11:30	737	<b>Jianrong Qiu</b>	Micro-structure modification of materials by Fs laser
11:30-12:00	738	<b>Wen-Yong Lai</b>	High-Efficiency Photoelectrodes and Gas Sensors Based on Porous SnO <sub>2</sub> Nanoplatelets
12:00-13:30	<i>Lunch Break</i>		
			<b>Chair: Kazue Kurihara</b>
13:30-14:00	740	<b>Yasuya Nakayama</b>	Dynamic shear responses of polymer-polymer interfaces
14:00-14:30	742	<b>Seyoung Im</b>	An adaptive quasicontinuum method with the aid of variable-node elements
14:30-15:00	743	<b>Zhigang Zou</b>	Materials for Photocatalytic Solar Fuel
15:00-15:30	<i>Session Break</i>		
18:00-Night	<i>Dinner and Activities Recommended</i>		

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**Mara (CC3DMR 2013 Conference Room 6, 2<sup>nd</sup> floor)**

<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: H. D. Yang</b>
08:30-09:00	744	<b>Rusli</b>	Solar energy harnessing in Si nanohole /Polymer hybrid solar cell
09:00-09:30	745	<b>Theerapong Puangmali</b>	Electronic and Optical Properties of InAs Nanocrystals : a Fundamental Study for High-efficiency Solar Cells
09:30-10:00	746	<b>Kuan-Wei Lee</b>	Liquid Phase Oxidation on GaAs-based Materials and Their Applications
10:00-10:30	<b>Session Break</b>		
			<b>Chair: Rusli</b>
10:30-11:00	747	<b>H. D. Yang</b>	Colossal dielectrics and magnetodielectric effects in RE <sub>2</sub> O <sub>3</sub> nanoparticles embedded SiO <sub>2</sub> glass matrix
11:00-11:30	748	<b>S. A. Halim</b>	Properties of La <sub>5</sub> /8Sr <sub>3</sub> /8MnO <sub>3</sub> Manganites Thin Films Prepared by Pulsed Laser Deposition on Different Substrates
11:30-11:45	749	<b>Stefaan Vandendriessche</b>	An ac magnetic field technique to optically characterize superparamagnetism
11:45-12:00	751	<b>P. J. Demeyer</b>	Strong fluorescence suppression in polymer inverse opals
12:00-13:30	<b>Lunch Break</b>		
			<b>Chair: S. A. Halim</b>
13:30-14:00	753	<b>Jih-Mirn Jehng</b>	Ni-based Nanocomposites Supported on Graphene Nano Sheet (GNS) for Supercapacitor Applications
14:00-14:30	755	<b>Jun Ni</b>	Electronic properties of silicene-based nanostructures
14:30-14:45	756	<b>Zakariya A. Hussein</b>	Seasonal Variation of indoor radon levels in hospitals of Iraqi Kurdistan Region
14:45-15:00	757	<b>Asaad H. Ismail</b>	3μD-Polycarbonate materials (CR-39 NTDs) analyzed for different alpha particle energies: Chemical etching as an essential factor
15:00-15:30	<b>Session Break</b>		
18:00-Night	<b>Dinner and Activities Recommended</b>		

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<b>Biyang (CC3DMR 2013 Conference Room 7, 2<sup>nd</sup> floor)</b>			
<b>Time</b>	<b>Page</b>	<b>Speaker</b>	<b>Talk Title</b>
			<b>Chair: Dana. D. Medina</b>
08:30-09:00	759	<b>Murat Sivis</b>	Plasmon-enhanced extreme ultraviolet light generation
09:00-09:30	761	<b>T. Scharf</b>	Liquid crystal based plasmonic metamaterials
09:30-10:00	763	<b>Xuefeng Yu</b>	Plasmonic Nanoparticles: From Synthesis, Optical Properties to Biological Applications
10:00-10:30	<b><i>Session Break</i></b>		
			<b>Chair: Murat Sivis</b>
10:30-11:00	764	<b>Jin-Woo Park</b>	Designing the properties of inorganic films on organic substrate by interfacial engineering
11:00-11:30	765	<b>Dana. D. Medina</b>	Thiophene-based Covalent Organic Framework Thin Films
11:30-12:00	767	<b>Hui Hu</b>	Lithium Niobate-On-Insulator (LNOI): A New Platform for Integrated Optics
12:00-13:30	<b><i>Lunch Break</i></b>		
18:00-Night	<b><i>Dinner and Activities Recommended</i></b>		