

Collaborative Conference on 3D & Materials Research (CC3DMR) 2014
23 - 27 June 2014
Songdo Convensia, Incheon/Seoul, Korea

DAY 1 (Monday 23 June)

Room 105 (CC3DMR 2014)			
Time	Page	Speaker	Talk Title
			Chair: Eun-Soo Kim
09:00-09:30	1	Shih-Shuo Tung	Multi-focus image fusion in light field photography
09:30-10:00	3	Christian Nitschke	Corneal Imaging and Applications
10:00-10:30	6	Payman Aflaki	Simultaneous 3D and 2D perception of stereoscopic video
10:30-11:00	<i>Session Break</i>		
			Chair: Christian Nitschke
11:00-11:30	7	Renato Pajarola	Data intensive visualization and analysis
11:30-12:00	9	Rigoberto Juarez Salazar	Recent phase computing technology for automatic real-time measurement applications
12:00-12:30	11	Sung Eui Yoon	High-Performance Rendering using Heterogenous Resources
12:30-14:00	<i>Session Break</i>		
			Chair: Nam Kim
14:00-14:30	12	Xiaojun Chen	3D Technology and its application in computer-aided oral implantology
14:30-15:00	15	Tae-Seong Kim	Depth Vision-based 3D Human Pose and Activity Recognition
15:00-15:30	17	Hui Wang	Information Content and Reduction in Computing Holographic Three-Dimensional Display
15:30-15:45	19	Feng Shao	Objective quality assessment for stereoscopic images based on structure-texture decomposition
15:45-16:00	<i>Session Break</i>		
			Chair: Xiaojun Chen
16:00-16:30	22	Cruz Meneses-Fabian	Non-quadrature amplitude modulation for achieving phase-visibility modulating interferometry: A novel method for phase retrieval
16:30-17:00	24	Nam Kim	Light field display: Wide viewing angle integral imaging and holographic acceleration using GPU
17:00-17:30	27	DongDong Weng	Spatial Augmented Reality System of high dynamic range based on dual-modulated projector arrays
18:00-Night	<i>Conference Reception & Poster Session</i>		

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			Chair: Richard Haglund
09:00-09:30	30	Manijeh Razeghi	High Performance III-Nitride Based Deep UV Photonic Devices on Silicon Substrates
09:30-10:00	35	George S. Nolas	Crystal Growth and Structure-property Relationships of Novel Group IV Materials
10:00-10:30	36	Min-Hsiung Shih	Room Temperature GaN metal nano-lasers
10:30-11:00	<i>Session Break</i>		
			Chair: Manijeh Razeghi
11:00-11:30	38	Francis Chi-Chung Ling	Thermal Evolution of Defects in Pulsed Laser Deposition Grown Zinc Oxide
11:30-12:00	40	Chadwin Delin Young	Electrical Characterization and Analysis of Threshold Voltage Instability in Zinc Oxide Thin-Film Transistors
12:00-12:30	44	Richard Haglund	Vanadium Dioxide: a Phase-Changing Switch for Photonics and Plasmonics
12:30-14:00	<i>Session Break</i>		
			Chair: Pavle V. Radovanovic
14:00-14:30	47	Hirofumi Yoshikawa	Solid-state Electrochemical Magnetism of Prussian Blue Analogues and Metal Oxides
14:30-15:00	50	Yongli Gao	The Role of Molybdenum Oxide for Organic Electronics: Surface Analytical Studies
15:00-15:30	51	Omer Dag	Salt-Surfactant Self-Assembly and Fabrication of Mesoporous Thin Films Using MASA Approach
15:30-15:45	53	Debraj Chandra	Soft Templated Fabrication of Mesoporous IrO ₂ Films for Efficient Electrocatalytic Water Oxidation
15:45-16:00	<i>Session Break</i>		
			Chair: Omer Dag
16:00-16:30	55	Pavle V. Radovanovic	Generating and Manipulating Light Emission in Transparent Metal Oxide Nanocrystals
16:30-17:00	57	Eric Rivard	Host-free Solid State Phosphorescence from Tellurium-based Heterocycles
17:00-17:30	58	Syamsul Rizal Abd Shukor	Tunable Encapsulated Drug Si-Nanoparticle Size for Targeted Drug Delivery System via Taguchi Method
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09:00-09:30	60	Priya Vashishta	Self-Healing Materials and Damage From Shock Induced Nanobubble Collapse: Reactive Molecular Dynamics Simulations
09:30-10:00	64	Tetsuo Tsuchiya	Advanced Phosphor Thin Film by Photo Induced Chemical Solution Deposition
10:00-10:30	67	Ryusuke Nozaki	Molecular dynamics of liquid alcohols
10:30-11:00	<i>Session Break</i>		
			Chair: Tetsuo Tsuchiya
11:00-11:30	70	Hongseok Choi	Hybrid -Production of Master Nanocomposites and Their Usage for Scalable Manufacturing of Metallic Nanocomposites
11:30-12:00	71	Lawrence Yoonsuk Lee	Synthesis, characterization, and photocatalytic application of Cu ₂ ZnSnS ₄ (CZTS) and Au/CZTS Core/Shell Nanostructures
12:00-12:30	73	Shoko Kume	Chemical Bonding Pair Selected by Electric Signal: Dual Reaction System by Cu(II)/Cu(I) Catalyst
12:30-14:00	<i>Session Break</i>		
			Chair: Zulkifli B. Ahmad
14:00-14:30	75	Masayuki Yagi	Crystalline Small Mesopore Tungsten Trioxide Photoanode for Highly Efficient Visible Light Driven Water Oxidation
14:30-15:00	77	Jianhua Hao	Coupling between the properties of smart materials and light-emission
15:00-15:30	78	Kwok Kin Wing	Lead-Free Transparent Electro-Optic Ceramics
15:30-16:00	<i>Session Break</i>		
			Chair: Masayuki Yagi
16:00-16:30	81	Zulkifli B. Ahmad	Refractive index and transparency of crosslinked methacrylate based poly(siloxane-silsesquioxane) through addition cure
16:30-17:00	82	Tung-Yuan Yung	The Nanocomposites Electrocatalytic Applications: Pt-M Nanoparticles on Graphene Sheets
17:00-17:30	84	Jun Ge	Synthesis of nanostructured enzyme catalysts for highly efficient biocatalysis
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10:00-10:30	88	Akira Ishibashi	High-efficiency solar cells and versatile clean systems (CUSPs) in "atom-bit-energy / environment" space
10:30-11:00	<i>Session Break</i>		
			Chair: Akira Ishibashi
11:00-11:30	91	Jae Su Yu	Fabration of semiconductor nanomaterials/nanostructures and their device applications
11:30-12:00	93	Matei Guran	Opportunities of utilizing the ultrafast metal-insulator phase transition in vanadium dioxide: materials and devices
12:00-12:30	94	Tetsuya Yamamoto	Materials Design of Wide Band Gap ZnO for Wide Applications
12:30-14:00	<i>Session Break</i>		
			Chair: Koichi Ichimura
14:00-14:30	96	Hiroshi Watanabe	Semiconductor Security Devices --- A New Frontier: Temperature Stable Integrated Battery-Less Electron Timer
14:30-15:00	99	Kenji Shiraishi	Computational Material Science Approach toward Future Electron Device
15:00-15:30	101	Fei Zeng	Conductance quantization dependent on memory media
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			Chair: Kenji Shiraishi
16:00-16:30	102	Tamaki Nakano	Chirality induction to organic molecules using circularly polarized light
16:30-17:00	104	Koichi Ichimura	Charge Disproportionation in Organic Conductors
17:00-17-30	106	Jurriaan Huskens	Supramolecular Strategies for the Control of Size and Functionalization of Organic and Metal-Organic Framework Nanoparticles
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09:30-10:00	110	Gang-yu Liu	Scanning Probe Lithography Based 3D Nanofabrication
10:00-10:30	112	Gregory S. Herman	Mechanistic Studies of Inorganic Resists for Nanolithography
10:30-11:00	<i>Session Break</i>		
			Chair: Gang-yu Liu
11:00-11:30	114	Milind N. Kunchur	Novel transport phenomena in thin superconducting films in parallel magnetic fields
11:30-12:00	115	Kyungwha Park	Electron Transport Properties of Single-Molecule Magnets
12:00-12:30	117	Yiin-Kuen Fuh	Near-Field Electrospinning (NFES) : Recent Development and Applications
12:30-14:00	<i>Session Break</i>		
			Chair: Kiyotaka Matsuura
14:00-14:30	119	Mila Frederic	New quantum phases in frustrated magnets
14:30-15:00	120	Hyungyu Jin	Observation of magnetism in phonons
15:00-15:30	122	Antonio Martins Figueiredo Neto	Influence of nanoparticle size on the nonlinear optical properties of magnetite ferrofluids
15:30-15:45	124	I. Golvano-Escobal	Spontaneously formed spatio-temporal patterns in electrodeposited cobalt-indium films: structure, magnetism and mechanical properties
15:45-16:00	<i>Session Break</i>		
			Chair: Mila Frederic
16:00-16:30	126	Kiyotaka Matsuura	Fabrication of Mg/Al cladding and its corrosion resistance and super plasticity
16:30-17:00	127	Yasuya Nakayama	Effect of dielectric decrement on the electric double layer at high surface charge density
17:00-17:30	129	Pipat Chooto	Inhibition of Metal Corrosion by Quinone Amino and Urea Compounds
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09:30-10:00	131	Yu-Chang Chen	Thermoelectric properties in atomic/molecular junctions from first principles
10:00-10:30	133	Shaoqiang Tang	Heat Jet Approach for Atomic Simulations at Finite Temperature
10:30-11:00	<i>Session Break</i>		
			Chair: Lilia M. Woods
11:00-11:30	134	Suemune Ikuo	Metallic Confinement of Semiconductor Nanostructures and High-efficiency Coupling to Single-mode Optical Fibers
11:30-12:00	136	Michael H. Huang	Shape-Controlled Synthesis of Nanocrystals and Their Facet-Dependent Properties
12:00-12:30	137	Yoshiaki Ito	X-ray and ozone generators as application of pyroelectric crystals of LiTaO ₃
12:30-14:00	<i>Session Break</i>		
			Chair: Yonggang Zhao
14:00-14:30	140	Hiroshi Uji	Sub-diffraction limited remote excitation of surface enhanced Raman/Fluorescence spectroscopy
14:30-15:00	142	Satoshi Matsuyama	Development of Achromatic Full-field X-ray Microscopy Based on Total Reflection Mirrors
15:00-15:30	144	Daesuk Kim	Polarization-sensitive snapshot spectral interferometry for measuring 3D nano pattern
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			Chair: Hiroshi Uji
16:00-16:30	146	Yonggang Zhao	Magnetoelectric coupling in multiferroic heterostructures
16:30-17:00	148	Hao Zeng	Field dependent Magnetic Polaron Energy in Colloidal CdMnSe Quantum Dots
17:00-17-30	149	Metha Rutnakornpituk	Design of Magnetic Nanoparticle Surface and Their Bioconjugation
17:30-17-45	150	Jin Zhang	Ferromagnetic electrodeposited porous Cu-Ni films: tunable wettability and improved electrocatalytic performace towards hydrogen evolution
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10:00-10:30	154	Masahiko Kondow	Development for photonic crystal laser with circular cavity
10:30-11:00	<i>Session Break</i>		
			Chair: Iddo Pinkas
11:00-11:30	156	Ming Lei	Amino and Ammonium Functionalized fullerenes as Cathode Interlayer for Polymer Solar Cell
11:30-12:00	159	Jacqui Cole	Data Mining with Molecular Design Rules Identifies New Class of Dyes for Dye-Sensitized Solar Cells
12:00-12:30	160	Sivalingam Sivananthan	Overview of II-VI Based Solar Cells
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			Chair: M. A. Van Hove
14:00-14:30	161	Ioan Baldea	Solvent and Reorganization Effects in Single-Molecule Junctions Studied by Transition Voltage Spectroscopy
14:30-15:00	163	Can Xue	Metal-Semiconductor Hybrid Nanostructures with Plasmon-Enhanced Photocatalytic Activities
15:00-15:30	165	Qichun Zhang	Doping oligoacenes with heteroatoms for organic semiconductor device applications
15:30-16:00	<i>Session Break</i>		
			Chair: Can Xue
16:00-16:30	166	Yoichi Takanishi	Anomaly of the homeotropic alignment in the nematic phase of compounds exhibiting the N-SmC phase sequence
16:30-17:00	168	M. A. Van Hove	Mechanisms of molecular machines
17:00-17:30	169	Amy V. Walker	Towards Molecular Electronics: Using Solution-Based Methods to Deposit Nano-objects
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09:30-10:00	173	Yanwen Wu	Intrinsic Optical Properties and Enhanced SPP Propagation of Epitaxial Silver
10:00-10:30	176	Kwok-Yin Wong	Electroactive Conducting Polymers Bearing Special Functionalities – from Electrochemical Sensors to Electrocatalysis
10:30-11:00	<i>Session Break</i>		
			Chair: Yoshiko Miura
11:00-11:30	177	Ira Weinstock	Polyoxometalate Cluster-Anions in Nanoparticle Ligand Shells
11:30-12:00	179	Toshihiro Okamoto	Bent-shaped Organic Semiconductors
12:00-12:30	181	Yousuke Ooyama	Solid-State Fluorescence Properties and Mechanofluorochromism of D- π -A Fluorescent Dyes
12:30-14:00	<i>Session Break</i>		
			Chair: Jia-Jen Ho
14:00-14:30	183	Seigo ITO	Printed Inorganic Solar Cells: Pb Perovskite and Crystal Silicon
14:30-15:00	185	Hsin-Ying Lee	High Performance of The Inverted Polymer Solar Cell
15:00-15:30	188	Craig B. Arnold	Mechanical Evolution of Energy Storage Materials and its Effects on Battery Lifetime
15:30-16:00	<i>Session Break</i>		
			Chair: Seigo ITO
16:00-16:30	189	Xiaotao Hao	Controllable physical properties in external field induced conjugated polymers films
16:30-17:00	190	Takeharu Haino	Supramolecular Polymerization of Functional Molecules Directed by Molecular Recognition
17:00-17-30	191	Jia-Jen Ho	The Application of Highly Active Metallic Nanoclusters as Catalysts on Some Important Chemical Reactions - A Theoretical Study
17:30-17-45	192	Mingyu Li	Temperature, deposition amount and dwelling time effect on self-assembled Au droplets on GaAs surfaces
18:00-Night	<i>Dinner and Activities Recommended</i>		

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09:00-09:30	194	Steven Swasey	Fluorescent, chiral silver clusters for multicolor DNA-templated nanostructures
09:30-10:00	196	Stacy Shiffler Copp	Machine learning for DNA template selection in silver-DNA nano-optical materials
10:00-10:30	198	Kazunori Matsuura	Synthetic Viral Capsid Self-assembled from Viral Peptide Fragment
10:30-10:45	200	Zainal Abidin Ali	Optical and Antibacterial Properties of Silane Based Coating
10:45-11:00	<i>Session Break</i>		
			Chair: Stacy Shiffler Copp
11:00-11:30	201	Jong-in Hahm	Fundamentals and Applications of Zinc Oxide Nanorods in Enhanced Optical Bioassays
11:30-12:00	202	Ching-Ting Lee	Recent Progress of ZnO based Materials in Devices and Sensors
12:00-12:30	205	Hamad Albrithen	ZnO Unusual Alloys CaZnO, SrZnO, and BaZnO: Experimental and Calculation Investigation
12:30-14:00	<i>Session Break</i>		
			Chair: Masayoshi Yuasa
14:00-14:30	207	Anderson Janotti	Metal oxides for electronics
14:30-15:00	208	Yasuhiro Sugawara	Surface Potential Measurement of TiO ₂ (110) by Using Atomic Force microscopy (AFM)/ Kelvin Probe Force Microscopy (KPFM)
15:00-15:30	210	Hiromitsu Takaba	Multi-Scale Modeling of Lithium-Air Batteries
15:30-16:00	<i>Session Break</i>		
			Chair: Anderson Janotti
16:00-16:30	212	Jyh-Chiang Jiang	High-throughput Virtual Screening of Improved Cyclic Sulphites as Electrolyte Additives in Lithium-Ion Batteries
16:30-17:00	213	Yonggang Wang	Catalysts for Rechargeable Li-O ₂ Batteries
17:00-17:30	214	Masayoshi Yuasa	Air electrode using perovskite-type oxides for metal air batteries
18:00-Night	<i>Dinner and Activities Recommended</i>		

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09:30-10:00	218	Chew Khian Hooi	Effect of Composition and Intermixing on ferroelectricity of BaTiO ₃ /(Ba, Sr)/TiO ₃ Superlattices
10:00-10:30	220	Guosong Wu	Role of Plasma-based Surface Modification on Biodegradation Control of Magnesium Alloys
10:30-11:00	<i>Session Break</i>		
			Chair: Shiva Prasad
11:00-11:30	222	Koichi Yamashita	Structural and Electronic Properties Featuring Ambipolar Transport in Methylammonium Lead Iodide Perovskite: A DFT Analysis
11:30-12:00	224	Tsuyoshi Miyazaki	Large-scale DFT simulations on nano structured materials using a linear-scaling technique
12:00-12:30	227	Shigeki Miyasaka	Two-Types of Quantum Critical Behaviors by 2- and 3-Dimensional Spin Fluctuation near Mott Transition in Perovskite Vanadates
12:30-14:00	<i>Session Break</i>		
			Chair: M. Senthil Kumar
14:00-14:30	228	Hidekazu Tanaka	Nonvolatile Transport Properties Induced by a Field Effect Accompanying Redox Processes in Ferrite Thin Films
14:30-15:00	230	Tomofumi Susaki	Structural and Magnetotransport Studies of Epitaxial Fe ₃ O ₄ Thin Films
15:00-15:30	232	Mei-Feng Lai	Magnetic MEMS/NEMS for biomedical applications
15:30-16:00	<i>Session Break</i>		
			Chair: Hidekazu Tanaka
16:00-16:30	234	M. Senthil Kumar	Magnetic and Magnetotransport Properties of Metallic and Metal-Semiconductor Multilayers and Thin Films
16:30-17:00	237	Hideo Kaiju	Structural and magnetic transitions of an FeAl alloy induced by nanosecond pulsed laser irradiation
17:00-17:30	239	Yoshihiro Gohda	First-principles theory on magnetism at interfaces
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09:30-10:00	242	Tok Eng Soon	Epitaxial graphene from Silicon Carbide: Growth Dynamics, Kinetics and Implications
10:00-10:30	243	Demetra Achilleos	Redox-Active Polymer Functionalization of Carbon Nanomaterials for Energy Storage and Chemical Processing Applications
10:30-10:45	244	Jeheon Kim	Selective synthesis of carbon materials by electrochemical process at room temperature
10:45-11:00	<i>Session Break</i>		
			Chair: Reza Abbaschian
11:00-11:30	246	Satoshi Yasuda	Selective Doping in Graphene for Oxygen Reduction Reaction
11:30-12:00	248	Kenta Arima	Combination of Plasma Oxidation and Wet Etching to Create Monolayer-scale C Source for Pit-free Graphene on SiC Surfaces
12:00-12:30	250	Jianyong Ouyang	Graphene and graphene composites as high-performance electrocatalysts for alcohol oxidation and oxygen reduction reactions
12:30-14:00	<i>Session Break</i>		
			Chair: Syed S Major
14:00-14:30	251	Kwang Soo Kim	Remarkable oxygen reduction catalytic capacity of Pt nanoclusters and nanodendrites in Pt/DNA/reduced-graphene-oxide hybrid materials
14:30-15:00	253	Kang Hway Chuan	Graphene and graphene nanoribbons: adsorption, electronic structure, quantum conductance
15:00-15:30	254	Zonghoon Lee	Graphene Research at Atomic Scale using Aberration-corrected TEM
15:30-16:00	<i>Session Break</i>		
			Chair: Kwang Soo Kim
16:00-16:30	255	Syed S Major	Reduced graphene oxide Langmuir Blodgett monolayers and related nanostructures
16:30-17:00	257	Hyung Kim	Graphene Oxide-Based Supercapacitors: A Computer Simulation Study
17:00-17-15	258	Mei Wang	A Large-scale, Self-standing and Electrically-conductive Reduced Graphene Oxide Membrane Fabricated by Electrophoretic Deposition Method
17:15-17-30	260	Shi-Hong Huang	Graphene/MnO ₂ composites for applications as symmetric supercapacitor
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10:00-10:30	264	Shalom J. Wind	Directed Biomolecular Assembly of Functional Nanostructures
10:30-11:00	<i>Session Break</i>		
			Chair: Mark A. Reed
11:00-11:30	265	Sheng Hsiung Chang	Understanding the origins of high open-circuit voltage and short-circuit current density in P3HT:ICBA:additive blended film based photovoltaics
11:30-12:00	266	Hiroshi Nishihara	Interfacial Synthesis of Electro-functional Metal Complex Nanosheets
12:00-12:30	267	Junichi Kurawaki	Rapid and Facile Preparation of Gold and Silver Nanocrystals Using 4-Acylamidobenzenethiol via Ultrasonic Irradiation
12:30-14:00	<i>Session Break</i>		
			Chair: Shuang Fang Lim
14:00-14:30	269	Jochen Feldmann	Nanoplasmonics meets Bio
14:30-15:00	270	Sung Ha Park	Physical and Biological Applications of Self-assembled DNA Nanostructures
15:00-15:30	271	David Kisailus	From Nature to Engineering: Bio-mimetic and Bio-inspired Materials
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			Chair: David Kisailus
16:00-16:30	272	Shuang Fang Lim	Upconversion nanophosphors as biosensors and biotherapeutic agents
16:30-17:00	273	Manabu Sato	Basic Research on Monitoring of Viability of Brain using Wide Field Optical Coherence Tomography
17:00-17:30	276	Chih-Yu Kuo	Magnetic Triggered Nanovehicles with Drug Controlled Release for Targeting Colorectal Cancer Therapy
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09:30-10:00	280	Stephen Hughes	Influence of electron-phonon scattering in quantum dot cavity-QED systems
10:00-10:30	282	Xiaohong Tang	InP Based Quantum Dots for Long Wavelength Emissions and Their Post-growth Bandgap Tuning
10:30-11:00	<i>Session Break</i>		
			Chair: Stephen Hughes
11:00-11:30	285	Norikazu Tomita	Theory for the two-photon photoemission spectroscopy: Photogeneration of the Fermi surface in the electron vacuum
11:30-12:00	287	John M Papanikolas	Using Femtosecond Pump-Probe Microscopy to Visualized Carrier Dynamics in Semiconductor Nanowires
12:00-12:30	289	Mikito Koshino	Physics of misoriented atomic layers
12:30-14:00	<i>Session Break</i>		
			Chair: Jim P. Zheng
14:00-14:30	291	Ping-Hei Chen	Complex boiling heat transfer phenomena on nanoparticle-modified surfaces
14:30-15:00	293	Edgar Knobloch	Solidification fronts in supercooled liquids: how rapid fronts can lead to disordered glassy solids
15:00-15:30	295	Hiroshi Fukuoka	High-pressure synthesis, structures, and properties of new germanides
15:30-16:00	<i>Session Break</i>		
			Chair: Ping-Hei Chen
16:00-16:30	298	Jim P. Zheng	A 3-D Catalytic Electrode Structure for Ultra-low Platinum Loading and High Performance PEMFCs
16:30-17:00	301	Duong Hai Minh	Thermal Transport Phenomena and Limitations in Heterogeneous Nanocomposites Containing Carbon Nanotubes and Inorganic Nanofillers
17:00-17:30	303	Jun Ni	Electronic properties of Boron Carbon nanostructures
18:00-Night	<i>Dinner and Activities Recommended</i>		

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Room 111 (CC3DMR 2014)			
Time	Page	Speaker	Talk Title
			Chair: Gregory David Fuchs
09:00-09:30	304	Yoshio Hayasaki	Position measurements of an optically-trapped gold nanoparticle using a twilight-filed optical microscope
09:30-10:00	307	Masahide Terazima	Time-resolved investigation on the intermolecular interaction of bio-materials; proteins during the functions
10:00-10:30	309	Bae-Yeun Ha	Confined ring polymers as a model nucleoid
10:30-11:00	<i>Session Break</i>		
			Chair: Masahide Terazima
11:00-11:30	310	Tae Hee Kim	Development of Spinterface for Organic Spintronic Devices
11:30-12:00	312	Gregory David Fuchs	Semiconductor defects as a quantum interface between spins, phonons, and photons
12:00-12:30	314	Isao Watanabe	SR Studies of Spin Ground States in the Pyrochlore Iridate $\text{Nd}_2\text{Ir}_2\text{O}_7$
12:30-14:00	<i>Session Break</i>		
			Chair: Junho Choi
14:00-14:30	316	John Donegan	Helium ion microscope generated nitrogen-vacancy centers in type Ib diamond
14:30-15:00	319	Yuya Shoji	Silicon-based Waveguide Optical Isolator by Direct Bonding Technology
15:00-15:30	321	Yaron Amouyal	New Frontiers in Thermoelectric Materials: Computational and Experimental Approaches
15:30-16:00	<i>Session Break</i>		
			Chair: John Donegan
16:00-16:30	323	Fumihiko Hirose	Room temperature atomic layer deposition of oxide films with plasma excited water vapor
16:30-17:00	325	Junho Choi	Deposition of DLC Film on a Micro-Gear by using bipolar PBII&D
17:00-17:30	327	Han-Yong Jeon	Creep Behavior Analysis of Geosynthetic Materials for Soil Reinforcement System
18:00-Night	<i>Dinner and Activities Recommended</i>		

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Room 105 (CC3DMR 2014)			
Time	Page	Speaker	Talk Title
			Chair: Ricardo B. Leite
09:00-09:30	329	Norio Tagawa	Computation Models for Depth Perception Based on Fixational Eye Movements
09:30-10:00	330	Hiroki Takada	Effects of Peripheral Viewing on Human Body during Exposure to Video Clips
10:00-10:30	333	Zonghua Zhang	Phase-calculation based 3D imaging system by using sinusoidal fringe projection
10:30-11:00	<i>Session Break</i>		
			Chair: Zonghua Zhang
11:00-11:30	334	Naoki Takada	Real-time Electroholography Using Multi-GPU Cluster System with Infiniband Network
11:30-12:00	337	TSANG Wai Ming Peter	Fast Rendering of Computer Holo-graphics Model
12:00-12:30	340	Ricardo B. Leite	Fast Bandelet-Based Image Compression Using Local Edge Estimations
12:30-14:00	<i>Session Break</i>		
			Chair: Naveen K. Nishchal
14:00-14:30	342	Yo Sung Ho	Distance Transform-based Depth Estimation for 3D Multimedia Applications
14:30-15:00	344	Lu Yang	High-quality View Synthesis for 3DTV and Free viewpoint TV
15:00-15:30	346	Freddy Alberto Monroy Ramirez	Digital Holography: a useful technique in 3D description of micro-objects
15:30-15:45	348	Zongju Peng	Stereo image reversible watermarking for authentication
15:45-16:00	<i>Session Break</i>		
			Chair: Yo Sung Ho
16:00-16:30	355	Naveen K. Nishchal	3D Optical Information Security
16:30-17:00	356	Min-Chul Park	Subjective evaluation of general viewing experiences for 3D and DH still images
17:00-17-30	357	K. B. Seo	Three-dimensional visual inspection of nonoscale defects of transparent materials based on a modified lateral shearing interferometer
18:00-Night	<i>Conference Banquet</i>		

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Time	Page	Speaker	Talk Title
			Chair: Ryo Yasuhara
09:00-09:30	359	Eran Ginossar	Control and dynamics of a superconducting qubit coupled to microwave squeezed vacuum
09:30-10:00	360	Stuart Tessmer	Probing the Superconducting Proximity Effect in a Topological Insulator Using Scanning Tunneling Microscopy
10:00-10:30	361	Eytan Grosfeld	Majorana fermions in the superconducting qubit architecture
10:30-11:00	<i>Session Break</i>		
			Chair: Eran Ginossar
11:00-11:30	362	Ryo Yasuhara	Transparent ceramic TGG material for magneto-optical applications in high power lasers
11:30-12:00	364	Masaki Nakano	Miniaturized permanent magnets applied for small devices
12:00-12:30	365	Takaaki Ishigure	Polymer materials for graded-index core optical waveguide for high-bandwidth-density on-board interconnects
12:30-14:00	<i>Session Break</i>		
			Chair: Hsiu-Hau Lin
14:00-14:30	367	Hsiao-Wen Zan	High Effective Mobility a-IGZO TFT Mediated by Directional Silver Nanowire Arrays
14:30-15:00	369	Chang Shoou-Jinn	Growth and device applications for CuO nanowires
15:00-15:30	370	Hiroaki Furuse	Thermal properties of transparent YAG ceramics at high temperature
15:30-16:00	<i>Session Break</i>		
			Chair: Chang Shoou-Jinn
16:00-16:30	372	Josep Nogues	Antiferromagnetic coupling in ferrimagnetic hard-soft core/shell nanoparticles
16:30-17:00	374	Hsiu-Hau Lin	Ferromagnetism in armchair graphene nanoribbons
17:00-17:30	375	Razali Ismail	Analytical Performance of 3m and 3m+1 Armchair Graphene Nanoribbons Under Uniaxial Strain
18:00-Night	<i>Conference Banquet</i>		

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			Chair: Yumi H. Ikuhara
09:00-09:30	376	S.D. Mahanti	Electronic and vibrational properties of Cu-Sb-Te and related systems: the role of group V Lone Pairs
09:30-10:00	377	Masato Kobayashi	Static Electron Correlations Described via Two-Electron Wave Functions
10:00-10:30	379	Noriaki Matsunaga	Quantized Hall effect and anion ordering in the quasi-one-dimensional organic conductor (TMTSF) ₂ X
10:30-11:00	<i>Session Break</i>		
			Chair: S.D. Mahanti
11:00-11:30	381	Kuan-Wei Lee	Liquid Phase Deposition on AlGaAs and Correlative Application
11:30-12:00	382	WANG Shijie	MAX phases Ti ₂ AlN Materials: Epitaxial Thin Films Fabrication, Characterization and Electronic Structure Calculations
12:00-12:30	383	Yumi H. Ikuhara	Microstructures, interfaces and properties of the epitaxially grown Li ion crystals by CSD method
12:30-14:00	<i>Session Break</i>		
			Chair: Masayoshi Higuchi
14:00-14:30	385	Yusuke IDE	Materials Design and Operating-Environment Control of Titania for the Applications
14:30-15:00	387	A. K. Suresh	Potential of nanofluids for process intensification
15:00-15:30	389	Bin Fei	Processing Tough Hydrogels into Absorbent Fibers
15:30-16:00	<i>Session Break</i>		
			Chair: Yusuke IDE
16:00-16:30	390	Mohammad Imam	Self-Assembly of Dendron Functionalized Triphenylenes into Nanostructured Supramolecular Architectures
16:30-17:00	391	Masayoshi Higuchi	Electro- and Photo-Chemical Properties of Metallo-Supramolecular Polymers
17:00-17:30	392	Yasuo Tomita	Light-Induced Nanoparticle Assembly in Photopolymer for Holographic Applications
18:00-Night	<i>Conference Banquet</i>		

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			Chair: Akira Chikamatsu
09:00-09:30	394	Shigeki Tokita	Intense Terahertz Surface-Wave Generated from Laser-Plasma Interactions
09:30-10:00	396	Yasufumi Fujiwara	Rare-earth-doped Semiconductors and Their Application to Photonic Devices
10:00-10:30	398	Sang Soon Oh	Active Optical Metamaterials
10:30-10:45	400	Dong Li	Preparation and Efficient Visible-Light-Driven Water oxidation of a N ₂ -Intercalated WO ₃ Nano-Rod Photoanode
10:45-11:00	<i>Session Break</i>		
			Chair: Shigeki Tokita
11:00-11:30	401	Paola Barbara	Photovoltaic effect in MoS ₂ Schottky junctions
11:30-12:00	402	Akira Chikamatsu	Topotactic reaction of iron oxide thin films
12:00-12:30	403	Kyeong-Sik Min	Training and Recalling of Nanoscale Memristor-Based Neuromorphic Circuit for Speech Recognition
12:30-14:00	<i>Session Break</i>		
			Chair: Balazs Hetenyi
14:00-14:30	404	Hee-Woo Rhee	Ultralow Interlayer Dielectrics for The Next Generation System LSI
14:30-15:00	405	Jong-Lam Lee	Nanolithography for 3-Dimensional nanostructures: Enhancement of Light Output Power in Vertical Light Emitting Diodes
15:00-15:15	407	Lili Sun	3D AlGa _N -based ultraviolet light-emitting diodes
15:15-15:30	410	Z. X. Zhang	Si/PEDOT:PSS Hybrid Solar Cells Using Carbon Nanotube Films as Transparent Top Electrodes
15:30-16:00	<i>Session Break</i>		
			Chair: Hee-Woo Rhee
16:00-16:30	412	Balazs Hetenyi	Drude weight, Meissner weight, and superfluid density: how can they be distinguished?
16:30-17:00	413	Satoshi Okuma	Novel Dynamic Transitions and Non-equilibrium Phenomena in Driven Vortex Matter
17:00-17:30	415	Tomoko Akama	Analysis and efficient time evolution of electron dynamics described by real-time TDHF/TDDFT calculation
18:00-Night	<i>Conference Banquet</i>		

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			Chair: Masaharu Oshima
09:00-09:30	417	Satoshi Toyoda	Electronic structure analysis of metal-oxide-semiconductor interface for MOSFET devices by synchrotron radiation photoemission spectroscopy
09:30-10:00	419	Hiroshi KUMIGASHIRA	Unusual Behavior of the Subbands in Strongly-Correlated Oxide Quantum Well Structures
10:00-10:30	420	Naoshi Ikeda	Observation of Electric Polarization in Polar Charge Ordered Material LuFe_2O_4
10:30-10:45	422	Po-Yen Kung	Synthesis of Cuprous Oxide and Zinc Oxide by Chemical Bath Deposition Applied in Heterojunction Solar Cells
10:45-11:00	<i>Session Break</i>		
			Chair: Hiroshi KUMIGASHIRA
11:00-11:30	423	Masaharu Oshima	Soft X-ray operando spectroscopy for green-nano devices
11:30-12:00	425	Chuck Feigerle	Heteroepitaxial Growth of Boron Phosphide for Neutron Detection
12:00-12:30	427	Ryuichi Masutomi	In situ STM/STS and transport studies in adsorbate-induced two-dimensional electron systems
12:30-14:00	<i>Session Break</i>		
			Chair: Philip Trøst Kristensen
14:00-14:30	429	Hiroaki Misawa	Towards nanostructure-enhanced photoenergy conversion in the plasmonic chemical reaction field
14:30-15:00	430	Adi Salomon	Coupling in Plasmonic systems and their Interaction with Molecules
15:00-15:30	431	Nicolas Olivier	Coherent and ultrafast optical response of plasmonic metamaterials
15:30-16:00	<i>Session Break</i>		
			Chair: Nicolas Olivier
16:00-16:30	432	Philip Trøst Kristensen	Quasinormal modes in optical microcavities and plasmonic nanoresonators
16:30-17:00	434	Rolf Lortz	Superconductivity in ultrathin carbon nanotube and nanowire arrays
17:00-17:30	435	Guleren Doner	Nanocomposite material preparation, characterization and application for the removal of radioactive elements
18:00-Night	<i>Conference Banquet</i>		

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			Chair: Michal Lahav
09:00-09:30	437	Andri Hardiansyah	Magnetic Liposomes for Colorectal Cancer Cells Therapy by High Frequency Magnetic Field Treatment
09:30-10:00	438	Il Kim	Lipopolypeptide Hybrid Materials with Intrinsic Targetability to Cancer Cells
10:00-10:30	440	Hui-Fen Wu	Nanomaterial based analytical techniques applied on microbiology and cancer study
10:30-11:00	<i>Session Break</i>		
			Chair: Andri Hardiansyah
11:00-11:30	442	Michal Lahav	Surface-Confined Metal-Organic Architectures as Efficient Electrochromic Materials
11:30-12:00	443	Meital Boterashvili	Integrated and Segregated Au/ γ -Fe ₂ O ₃ Binary Nanoparticle Assemblies
12:00-12:30	444	Takashi Fukuda	Large Elastic Strain in Fe ₃ Pt and Fe-31.2Pd Alloys
12:30-14:00	<i>Session Break</i>		
			Chair: Christine Luscombe
14:00-14:30	445	Nisanart Traiphol	Color Stability and Thermochromism of Polydiacetylene/Zinc Oxide Nanocomposite in Various Organic Solvents and Polymer Matrices
14:30-15:00	447	Andrew J. Boydston	Development of Flex Activated Mechanophores and Mechanically-Triggered Self-Immolative Polymers
15:00-15:30	448	Vincent Tan	Identifying the Mechanisms of Polymer Friction through Molecular Dynamics Simulation
15:30-15:45	450	Renata Balgley	Controllable Electron Transfer in Composite Organic-Inorganic Molecular Architectures
15:45-16:00	<i>Session Break</i>		
			Chair: Andrew J. Boydston
16:00-16:30	452	Rakchart Traiphol	Control over the photophysical properties of conjugated polymer nanoparticles prepared by re-precipitation method
16:30-17:00	454	Christine Luscombe	Studying the effect of defects in poly(3-hexylthiophene)
17:00-17:30	455	Ming Chen	Fringed-micelle Crystals of Poly(butylene succinate-co-50 mol% 2-methyl-1,3-propylene succinate)
18:00-Night	<i>Conference Banquet</i>		

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			Chair: Alan Seabaugh
09:00-09:30	456	Judy Z. Wu	Photonic and Plasmonic Carbon Nanostructures
09:30-10:00	457	Jason Amsden	Engineering carbon nanomaterials for electrode applications in energy storage, disinfection, and electron emission
10:00-10:30	459	Chuan Wang	Carbon Nanotube Flexible Electronics for Applications in Interactive Electronic Skin
10:30-10:45	461	Figen Kaya	Template-Free Hydrothermal Synthesis of Multi-Walled CuO Nanotubes
10:45-11:00	<i>Session Break</i>		
			Chair: Jason Amsden
11:00-11:30	462	Chunyan Chi	Solution Processable n-Type Acene Based Materials for Organic Field Effect Transistors
11:30-12:00	463	Alan Seabaugh	Materials Challenges for Steep Subthreshold-Swing Transistors
12:00-12:30	465	Jae Kyeong Jeong	Improvement in carrier mobility of zinc tin oxide transistor by adopting double channel structure and gettering technique
12:30-14:00	<i>Session Break</i>		
			Chair: Masashi Hasegawa
14:00-14:30	466	Bo-Qing Xu	Pt-on-Au (Ag) Nanostructures as Advanced Electrocatalysts in Electrochemical Energy Conversion
14:30-15:00	468	Kentaro Kaneko	Prospective functional materials based on metastable-phased oxides
15:00-15:30	470	Soon Jung Jung	Engineering the surface properties of titanium dioxide for photocatalysis
15:30-15:45	471	Dahye Kim	Complementary MoS ₂ inverter with interface engineering
15:45-16:00	<i>Session Break</i>		
			Chair: Bo-Qing Xu
16:00-16:30	472	Seongchan Jun	Hybrid structure for supercapacitor
16:30-17:00	473	Masashi Hasegawa	Ultra-high Pressure Syntheses and Characterization of Transition Metal Nitrides
17:00-17:30	474	Ladda Meesuk	Calcium Bentonite: Its versatile applications
18:00-Night	<i>Conference Banquet</i>		

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Room 105 (CC3DMR 2014)			
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			Chair: Lin Li
09:00-09:30	476	Shoji Kawahito	CMOS Time-of-Flight 3D Image Sensors with Electric Field Modulation
09:30-10:00	478	Zhi-Hui Wang	A High Efficiency 3D Steganography Algorithm
10:00-10:30	479	Byung-Mok Kim	An optimized backlight unit generating two quasi-collimated beams for volume- holographic optical element-based time-multiplexed autostereoscopic three-dimensional display system
10:30-11:00	<i>Session Break</i>		
			Chair: Shoji Kawahito
11:00-11:30	481	Lin Li	3D modeling and its application in digital cadastre
11:30-12:00	483	Guohai Situ	Phase retrieval for computational optical imaging and image processing
12:00-12:30	484	Wieme Gadacha	Invariant curved surface representation from unipolar to multipolar geodesic approach; application to 3D indexing and face analysis
12:30-14:00	<i>Session Break</i>		
			Chair: Seunghun Hong
14:00-14:30	486	Marin Soljacic	Novel resonances in nano-photonics
14:30-15:00	487	Mark Blamire	Novel Materials for Spin Filter Tunnel Junctions
15:00-15:30	489	Kenshi Hayashi	Molecular Imprinted Filtering and Odor Visualization with Odor Image Sensor
15:30-16:00	<i>Session Break</i>		
			Chair: Kenshi Hayashi
16:00-16:30	491	Kyuman Cho	Novel balanced-path interferometer schemes for biosensing and imaging
16:30-17:00	493	Seunghun Hong	Hybrid Nanobio-materials for Bio-sensing and Bioelectronic Nose Applications
17:00-17-15	494	Ayana Oiwa	AuNPs Chemiresistor Sensor for Gas Sensing
17:15-17-30	496	Bin Chen	LSPR Sensor based on Periodic AuNP Arrays for Ethanol Gas Detection
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			Chair: Katsuhiko Higuchi
09:00-09:30	499	Wen-Yong Lai	High-Performance Transparent Electrodes for Stretchable and Flexible Organic Electronics
09:30-10:00	501	Noriyoshi Matsumi	Lithium Ion Transporting Properties of Ionic Liquid/Borane Binary Electrolytes
10:00-10:30	503	Varsha Kulkarni	Materials in Space: Composition and Structure of Silicate Dust Grains in Galaxies
10:30-11:00	<i>Session Break</i>		
			Chair: Milind N. Kunchur
11:00-11:30	505	Masahiko Higuchi	Finite-Temperature Pair-Density Functional Theory
11:30-12:00	507	Hamit Yurtseven	Alpha-Beta Transition in Quartz
12:00-12:30	508	Katsuhiko Higuchi	Current-density functional theory for superconductors
12:30-14:00	<i>Session Break</i>		
			Chair: Tetsuo Kodera
14:00-14:30	510	Akiko Ueda	Quantum Dots Coupling to Topological Superconductors
14:30-15:00	512	Iam Keong Sou	Novel Properties of Bi ₂ Te ₃ -based topological insulator heterostructures
15:00-15:30	514	You-Quan Li	Exotic Spin Orders in Multiferroics and Their Manipulation — Theory and the Mechanism
15:30-16:00	<i>Session Break</i>		
			Chair: Akiko Ueda
16:00-16:30	515	Tetsuo Kodera	Fabrication and Characterization of Silicon Double Quantum Dots for Quantum Information Devices
16:30-17:00	516	Stephan Reitzenstein	Enhancement of the quantum-dot light-extraction efficiency using deterministically fabricated microlenses
17:00-17:30	518	Yong-Hoon Cho	Group III-Nitride Semiconductor Nanostructures for Solid State Lighting and Quantum Photonics
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			Chair: Raman Vedarjan
09:00-09:30	519	Hsieh-Cheng Han	Using Surface Modified Anode/Cathode Buffer Layer to control the Lateral and Vertical Domains in the Active Layer of the Tandem Organic Solar Cells
09:30-10:00	520	Hsin-Fei Meng	Large-area polymer solar cell by blade coating
10:00-10:15	521	Suwilai Chaveanghong	Modified hydroxyapatite derived from waste bovine bone as an efficient bifunctional heterogeneous catalyst for biodiesel production
10:15-10:30	522	Wang Rui	Activation of Imprinted Enzyme Nanogel in Organic Solvents
10:30-11:00	<i>Session Break</i>		
			Chair: Hsieh-Cheng Han
11:00-11:30	523	Yoshiyuki Sugahara	Preparation of organic-inorganic hybrid materials using oxide-based nanomaterials
11:30-12:00	525	Raman Vedarjan	Dye Sensitised TiO ₂ +WO _x Nanotubes in Photoelectrochemical Water Splitting
12:00-12:30			
12:30-14:00	<i>Session Break</i>		
			Chair: Siwaporn Meejoo Smith
14:00-14:30	528	Reiner Kirchheim	Stabilizing nanostructures by solute/defect-interaction
14:30-15:00	530	Jae-Sang Ro	Microsecond crystallization of amorphous silicon films using Joule heating
15:00-15:30	531	Heinz-Bernhard Kraatz	Ferrocene-Peptide Materials: Structure, Self-Assembly Properties and Gelators
15:30-15:45	532	Mao Sui	Evolution of Au Droplets on various type-B GaAs surfaces
15:45-16:00	<i>Session Break</i>		
			Chair: Jae-Sang Ro
16:00-16:30	534	Siwaporn Meejoo Smith	Catalytic oxidation and wastewater treatment
16:30-17:00	535	Jong yuh Cherng	Fabrication of piezoelectric components for a tunable and efficient device for DNA delivery into mammalian cells
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			Chair: Stefan Seeger
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09:30-10:00	538	Eva Maria Pellicer Vila	Tailor-made hierarchical porous composite films by electrodeposition: Synthesis and applications
10:00-10:15	539	Cengiz Kaya	Hydrothermal synthesis of Titanate nanotubes and their coatings
10:15-10:30	540	Gregory I. Peterson	Novel Methods to Trigger Depolymerization of Self-Immolative Polymers
10:30-11:00	<i>Session Break</i>		
			Chair: Eva Maria Pellicer Vila
11:00-11:30	541	Hitoshi Ogihara	Wet-Chemical Process to Prepare Functional Nanostructured Surface
11:30-12:00	555	Stefan Seeger	Silicone Nanostructures: From filaments to tubes to vessels
12:00-12:30	544	Xingyu Gao	Monochromatic photoemission from alkane-ligated Au nanoparticles
12:30-14:00	<i>Session Break</i>		
			Chair: Pil Seok Chae
14:00-14:30	545	Sylwia Ptasinska	Near Ambient Pressure X-ray Photoelectron Spectroscopy of water interaction with semiconductors
14:30-15:00	546	Hyeyoung Ahn	THz spectroscopy of silver nanowire films
15:00-15:30	547	Joon Myong song	Multifunctional Silver Nanoparticle Wound-healing Agent
15:30-16:00	<i>Session Break</i>		
			Chair: Sylwia Ptasinska
16:00-16:30	548	Rena Zieve	Uniaxial Pressure Measurements of Anisotropic Systems
16:30-17:00	550	Pil Seok Chae	Novel amphipathic chemicals for membrane protein structural study
17:00-17-15	551	Sanghoon Kim	Electromagnetic Interference (EMI) Transparent Shielding of Reduced Graphene oxide (RGO) Interleaved Structure Fabricated by Electrophoretic Deposition
17:15-17-30	553	R. Puteh	Antibacterial Coating for Elimination and Inhibition of Pseudomonas Aeruginosa
18:00-Night	<i>Dinner and Activities Recommended</i>		

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