

EMN MEETING on Ceramics
January 26th – January 29th
Double Tree by Hilton Hotel Orlando at SeaWorld, FL, USA

Monday Jan. 26
Room A

7:00-7:45AM

Breakfast

7:50-7:55AM

Opening Ceremony Chair: Zhiming Wang

Session: Keynote Speakers Chair: Zhiming Wang

8:00-8:30AM

A01: Oxide Materials for Emerging Memory Devices: Resistive Switching Characteristics

Ram S. Katiyar
University of Puerto Rico San Juan,
USA

8:30-9:00AM

A02: Feature and Future of Soft Processing (Green Processing) for Advanced Ceramic Materials

Masahiro Yoshimura
National Cheng Kung University,
Taiwan

9:00-9:30AM

A03: Science and Technology of Multifunctional Oxide and Ultrananocrystalline Diamond (UNCD) Films and Applications to a New Generation of Multifunctional Devices

Orlando Auciello
University of Texas-Dallas, USA

9:30-10:00AM

A04: Regenerative Nanooxides in mediating ROS Mediated Cell Disorders

Sudipta Seal
University of Central Florida, USA

10:00-10:30AM

A05: Structuring intuition with theory: the high-throughput way

Marco Fornari
Central Michigan University, USA

10:30-10:45AM

Session Break

Session: Ceramic Nanostructures I Chair: Marco Fornari

10:45-11:10AM

A06: Hybrid Physical/Chemical Synthesis Strategies for Noncentrosymmetric Perovskite Oxide Nanostructures with Enhanced Functionality

Anuja Datta
University of South Florida, USA

11:10-11:35AM

A07: Designing nanostructured oxygen electrode for energy conversion

Elisabeth Djurado
University of Grenoble Alpes, France

11:35-12:00PM	A08: Ceramic nanocomposites with alumina matrix	Dusan Galusek Alexander Dubcek University of Trencin, Slovakia
12:00-12:25PM	A09: Photophysical and morphological study of doped $\text{Ag}_2\text{WO}_4:\text{Eu}^{3+}$	Ieda Lúcia Viana Rosa Federal University of Sao Carlos, Brazil
12:25-13:25PM	Lunch Break	
Session: Ceramic Nanostructures II Chair: Koichi Eguchi		
13:25-13:50PM	A10: Multifunctional materials for electronics and photonics	Federico Rosei INRS-EMT, the University of Quebec, Canada
13:50 -14:15PM	A11: 2D Oxide Nanosheets: New Atomic Sheets from Layered Ceramics	Minoru Osada National Institute for Materials Science, Japan
14:15 -14:40PM	A12: The Role of Nanostructure in Thermal Expansion, Including Negative Thermal Expansion Materials and their Composites	Mary Anne White Dalhousie University, Canada
14:40 -15:05PM	A13: Nanostructured transparent Nd:YAG and Nd:RE ₂ O ₃ ceramics for laser applications: elaboration by non-conventional ceramic process and correlations with their optical properties	Alexandre Maitre CNRS, France
15:05-15:20PM	Session Break	
Session: Ceramics for Energy I Chair: Minoru Osada		
15:20-15:45PM	A14: Microstructure-performance relations for the ceramic electrodes of solid oxide fuel cells	Koichi Eguchi Kyoto University, Japan
15:45-16:10PM	A15: Visible Light-Induced Overall Water-Splitting over Solid State Z-Scheme Photocatalysts	Hiroshi Irie University of Yamanashi, Japan
16:10-16:35PM	A16: Model for coupled ferroelectric hysteresis using time fractional operators: Application to innovative energy harvesting	Benjamin Ducharne INSA-Lyon, France
16:35-17:00PM	A17: High Temperature Piezoelectrics: Guidelines and Realities	Alp Schirlioglu Case Western Reserve University, USA
17:30PM	Dinner Social	

Tuesday Jan. 27 Room B		
7:00-8:00AM	Breakfast	
Session: Advanced Ceramic Thin Films and Coatings for Functional Applications I Chair: Anuja Datta		
8:00-8:25AM	B01: Strain Induced Dielectrophoretic Behavior in Electronically Phase Separated Manganite Thin Films	Amlan Biswas University of Florida, USA
8:25-8:50AM	B02: Nano Materials for Light Harvesting	Amitava Patra Indian Association for the Cultivation of Science, India
8:50-9:15AM	B03: Energy Harvesting from Heart Beating based on Low-Frequency Periodic Buckling of PZT Films	Chaofeng Lu Zhejiang University, China
9:15-9:40AM	B04: Non-Epitaxial Semiconducting Heterostructures with Controllable Nanostructure	Matt Beekman Oregon Institute of Technology, USA
9:40-10:05AM	B05: Surface Functionalization of Polystyrene with Biomimetic Apatite and Culture of Bone-Related Cells Thereon	Kazutoshi Iijima Tokyo University of Science, Japan
10:05-10:20AM	Session Break	
Session: Advanced Ceramic Thin Films and Coatings for Functional Applications II Chair: Amitava Patra		
10:20 -10:45AM	B06: Growth and Structural Characterization of Anatase/Rutile-TiO ₂ Thin Films; Optical, Surface and Catalytic Properties	Anna-Karin Axelsson London South Bank University, UK
10:45-11:10AM	B07: Design and Fabrication of Functional Nanocomposite Coatings by the Sol-Gel Process	Goutam De Council for Scientific and Industrial Research - Central Glass and Ceramic Research Institute, India
11:10-11:35AM	B08: Luminescent Properties of Perovskite-Type Phosphor Thin Films	Kazushige Ueda Kyushu Institute of Technology, Japan
11:35-12:00PM	B09: Pulsed Laser Deposition of Multiferroic and Ferroelectric Perovskite-Oxide Thin-Film Heterostructures	Devajyoti Mukherjee University of South Florida, USA
12:25-13:20PM	Lunch Break	
Session: Advanced Ceramic Thin Films and Coatings for Functional Applications III Chair: Anuja Datta		

13:45 -14:10PM	B10: Ink Jet Printing of Transparent Conductive Oxide Thin Films and Patterns	Klaartje De Buysser Ghent University, Belgium
14:10 -14:35PM	B11: Interfacial Structure and Functional Properties of Complex Oxide Heterojunctions	Liang Qiao The University of Manchester, UK
14:35 -15:00PM	B12: Structure, Composition, Electrical and Optical Properties of Sputtered PbSe Thin Films on Si	Alex Volinsky University of South Florida, USA
15:00-16:00PM	Poster Session	
Session: General I Chair: Klaartje De Buysser		
16:00-16:25PM	B13: Magnetoelectric thin film composites as magnetic field sensors or energy harvesters	Eckhard Quandt University of Kiel, Germany
16:25-16:50PM	B14: In Situ Deformation of Metallic Interlayers	Finn Giuliani Imperial College London, UK
16:50-17:15PM	B15: Temperature Dependent Ionic Transport Properties in layered perovskite $(\text{Sr},\text{La})_3\text{Fe}_2\text{O}_{7-\delta}$	Isao Kagomiya Nagoya Institute of Technology, Japan
17:30PM	Dinner Social	

Tuesday Jan. 27 Room C		
7:00-8:00AM	Breakfast	
Session: Ceramic Nanostructures III Chair: Vladimir Sobolev		
8:00-8:25AM	C01: Electrical and thermal transport in nanostructured ceramics: grain boundary and size effects	Marco Antonio Lopez de la Torre University of Castilla-La Mancha, Spain
8:25-8:50AM	C02: Doping as a simple way to control the microstructure of zirconia-toughened alumina composites	Laurent Gremillard INSA-Lyon, France
8:50-9:15AM	C03: High-Efficiency SERS Substrate Based on Mullite Nanowhisker Array Decorated with Silver Nanoparticles	Xinmei Hou University of Science and Technology Beijing, China
9:15-9:40AM	C04: Thin layer glass and vanadium-boride coatings with self-healing property	Lionel Montagne CNRS, University of Science and Technology in Lille, France
9:40-10:05 AM	C05: Fabrication of Glass-Ceramic Materials by SPS	Lianjun Wang Donghua University, China
10:05-10:20AM	Session Break	
Session: Electronics in Ceramics I Chair: Marco Antonio Lopez de la Torre		
10:20 -10:45AM	C06: Ferroelectrics with coexisting ferroelectric and antiferroelectric phases: Peculiarities of properties and possible applications	Vladimir Sobolev South Dakota School of Mines and Technology, USA
10:45-11:10AM	C07: Low temperature Preparation of Barium Titanate-based Nano-complex Ceramics by Solvothermal Solidification Method and Their Dielectric Enhancement	Satoshi Wada University of Yamanashi, Japan
11:10-11:35AM	C08: MgZnO/ZnO based electronic devices fabricated using large-area compatible processes	Jian Zhang Chen National Taiwan University, Taiwan
11:35-12:00PM	C09: Surface Chemistries of Amorphous Oxide Semiconductors	Gregory S. Herman Oregon State University, USA
12:00-12:25PM	C10: Synthesis of spinon thermal conductive SrCuO ₂ by glass-crystallization methods: Thermal and structural properties	Nobuaki Terakado Tohoku University, Japan
12:25-13:25PM	Lunch Break	
Session: Ceramic-matrix Composites I Chair: Samuel Georges		

13:45 -14:10PM	C11: Dielectric behavior of ceramic-nano carbon composites around the percolation threshold	Lucia Fernandez-Garcia CINN-CSIC, Spain
14:10 -14:35PM	C12: Tuning the dielectric constant in ferrite-carbon nanofibres composites	Jose Luis Menendez CINN-CSIC, Spain
14:35 -15:00PM	C13: High-temperature mechanical properties of ultrarefractory boron carbide ceramics	Diego Gomez-Garcia University of Seville, Spain
15:00-16:00PM	Poster Session	
Session: Ceramics for Energy II Chair: Lucia Fernandez-Garcia		
16:00-16:25PM	C14: Design of anodic architectures for direct methane SOFC	Samuel Georges University of Grenoble Alpes, France
16:25-16:50PM	C15: Hydrogen evolution reaction at titanium carbide-supported, platinum-doped tetrahedral amorphous carbon array electrodes	Nicolas Glandut University of Limoges, France
16:50-17:15PM	C16: New Aspects of Oxide Ceramic Materials for Thermoelectric Energy Conversion	Michitaka Ohtaki Kyushu University, Japan
17:30PM	Dinner Social	

Tuesday Jan. 27 Room D		
7:00-8:00AM	Breakfast	
Session: Hierarchical Materials Chair: Byung-Nam Kim		
8:00-8:25AM	D01: Zinc Oxide Ordered Nanostructures obtained through Soft Processing Strategies	Marco Peiteado Polytechnic University of Madrid, Spain
8:25-8:50AM	D02: Elastic and thermal properties of some organized clay-based materials	Nicolas Tessier-Doyen European Ceramic Center, France
8:50-9:15AM	D03: Bio-sourced sustainable Materials: organic-mineral reactions and shaping process?	Gisele Lecomte ENSCI, France
9:15-9:40AM	D04: Hydrothermal synthesis route for processing functional ceramics based on mineral pseudomorphic reactions	Juan Carlos Rendon-Angeles Research Institute for Advanced Studies of the NPI, Mexico
9:40-10:05AM	D05: Approaches to improving the visible light absorption and uprising the conduction band minimum of photocatalysts from first-principles calculation	Junying Zhang Beihang University, China
10:05-10:20AM	Session Break	
Session: Advanced Problems in the Mechanical Modelling of Ceramic Materials I Chair: Andrea Piccolroaz		
10:20 -10:45AM	D06: Modeling of densification by grain-boundary sliding and diffusion	Byung-Nam Kim National Institute for Materials Science, Japan
10:45-11:10AM	D07: Oxygen Separating Membranes Fabricated from Perovskite-like Materials	Magdalena Gromada Institute of Power Engineering, Poland
11:10-11:35AM	D08: Micromechanical modeling of porous ceramic composites using direct microstructural reconstructions	Kawai Kwok Technical University of Denmark, Denmark
11:35-12:00PM	D09: A Thermomechanical Contact Problem For Microstructured Solids	Francesco Dal Corso University of Trento, Italy
12:00-12:25PM	D10: Model reduction methods in inverse analysis: improvement of accuracy by uniform space filling techniques	Vladimir Buljak University of Belgrade, Serbia
12:25-13:20PM	Lunch Break	
Session: Advanced Problems in the Mechanical Modelling of Ceramic Materials II Chair: Francesco Dal Corso		

13:20-13:45PM	D11: Modelling, characterization and simulation of refractory materials for liquid steel technology	Davide Bigoni University of Trento, Italy
13:45 -14:10PM	D12: New biomimetic ceramics for the regeneration of load-bearing bones	Simone Sprio ISTEC-CNR, Italy
14:10 -14:35PM	D13: Smart bio-inspired hybrid nano-composites for multifunctional applications	Anna Tampieri ISTEC-CNR, Italy
14:35 -15:00PM	D14: Fracture in ceramics with microstructure	Andrea Piccolroaz University of Trento, Italy
15:00-16:00PM	Poster Session	
Session: General II Chair: Davide Bigoni		
16:00-16:25PM	D15: Novel strategies for sintering oxides using microwave energy	Sylvain Marinel University of Caen Basse-Normandie, France
16:25-16:50PM	D16: Valence Electron Density Study on Phase Transitions in Perovskite-type Ceramics by Synchrotron Radiation X-ray Diffraction	Yoshihiro Kuroiwa Hiroshima University, Japan
16:50-17:15PM	D17: Strain Rate Dependent Failure of Glass/Epoxy Interfaces at nano-microscale via Nanoimpact Experiments	Vikas Tomar Purdue University, USA
17:30PM	Dinner Social	

Wednesday Jan. 28 Room B		
7:00-8:00AM	Breakfast	
Session: Electronics in Ceramics II Chair: Scott P. Beckman		
8:00-8:25AM	B16: Microstructural evidences of extrinsic magnetization in Fe-doped 6H-BaTiO ₃	Matjaz Valant University of Nova Gorica, Slovenia
8:25-8:50AM	B17: Sr-a-Doped La ₂ CuO ₄ Heterostructures: Cation Redistribution and High-Tc Superconductivity	Peter van Aken Max Planck Institute for Intelligent Systems, Germany
8:50-9:15AM	B18: Electrical and magnetic properties of transition and rare-earth metal molybdates and tungstates – potential materials for laser matrices and light-emitting diodes	Tadeusz Gron University of Silesia, Poland
9:15-9:40AM	B19: Sol-Gel-Derived Amorphous Semiconductor TFT Fabrication and its Performance	Tohru Sugahara Osaka University, Japan
9:40-10:05AM	B20: Improving the properties of BiFeO ₃ ceramics	Donna Arnold University of Kent, UK
10:05-10:20AM	Session Break	
Session: General III Chair: Matjaz Valant		
10:20 -10:45AM	B21: Modeling the chemical complexity of the metal borides using the hybrid SQS/VCA alloy method and data informatics	Scott P. Beckman Iowa State University, USA
10:45-11:10AM	B22: Novel highly transparent polycrystalline ceramics synthesised by full crystallization from glass	Mathieu Allix CNRS, France
11:10-11:35AM	B23: Electrospinning of Ceramics	Johan E. ten Elshof University of Twente, The Netherlands
11:35-12:00PM	B24: Medium Range structure, ionic conductivity and fragility of superionic glasses	Masaru Aniya Kumamoto University, Japan
12:25-13:25PM	Lunch Break	
Session: Ceramics for Energy III Chair: Masanori Kikuchi		
14:15 -14:40PM	B25: ABO ₃ perovskite thin films for fuel cell and sensor applications	Mohammad Arab Pour Yazdi IRTES-LERMPS, UTBM, France

14:40 -15:05PM	B26: 3C-SiC on Si: A Biocompatible Material for Advanced Bioelectronic Devices	Stephen E. Sadow University of South Florida, USA
15:05-15:20PM	Session Break	
Session: Ceramic-matrix Composites II Chair: Mohammad Arab Pour Yazdi		
15:20-15:45PM	B27: Preparation of directionally solidified eutectic ceramic with induction Zone Melting	Juncheng Liu Tianjin Polytech University, China
15:45-16:10PM	B28: Hydroxyapatite/collagen bone-like nanocomposite: Its biological reactions and usefulness in surgery	Masanori Kikuchi National Institute for Materials Science, Hokkaido University, Japan
16:10-16:35PM	B29: A Mechanical Model to Predict Phase Stress for Ceramic Laminates during Sintering	Kouichi Yasuda Tokyo Institute of Technology, Japan
17:30PM	Dinner Social	

Wednesday Jan. 28 Room C		
7:00-8:00AM	Breakfast	
Session: Ceramic Nanostructures IV Chair: Hiroshi Maiwa		
8:00-8:25AM	C17: Strongly correlated transition metal ceramic nanostructures investigated by soft x-ray spectroscopies and multiplet calculations	Guillermo Manuel Herrera Perez National Autonomous University of Mexico, Mexico
8:25-8:50AM	C18: Nitrogen and Carbon Mobility in SiCO and SiCN Polymer-Derived Ceramics	Hans-Joachim Kleebe Darmstadt University of Technology, Germany
8:50-9:15AM	C19: Nanostructured pure and doped ferrites: synthesis by electrospinning and study of their magnetic properties	Sagrario M. Montemayor Research Center of Applied Chemistry, Mexico
9:15-9:40AM	C20: Doping Effect on Sinterability and Grain Boundary Nanostructure in Polycrystalline Yttria	Hidehiro Yoshida National Institute for Materials Science, Japan
9:40-10:05AM	C21: Band gap narrowing and widening of ZnO nanostructures and doped materials	Norlida Kamarulzaman MARA University of Technology, Malaysia
10:05-10:20AM	Session Break	
Session: General IV Chair: Guillermo Manuel Herrera Perez		
10:20 -10:45AM	C22: Electrocaloric Properties of PZT-based Ceramics, PVDF Films and PMN-PT Crystals	Hiroshi Maiwa Shonan Institute of Technology, Japan
10:45-11:10AM	C23: Functional metastable phase formation from undercooled melt by containerless processing	Atsunobu Masuno University of Tokyo, Japan
11:10-11:35PM	C24: Lead-Free Functional Oxides for Applications	Didier Fasquelle ULCO, France
11:35-12:00PM	C25: Epitaxial growth of flower and pillar indium nitride by APHCVD method	Naonori Sakamoto Shizuoka University, Japan
12:25-13:25PM	Lunch Break	
Session: Electronics in Ceramics III Chair: Romain Gaume		
13:25 -13:50PM	C26: Electrocaloric Refrigeration in Perovskite-structure Ferroelectric Materials	Yang Bai University of Science and Technology Beijing, China

13:50 -14:15PM	C27: Doped-sepiolite for humidity and gas detection	Jean-Marc Tulliani Polytechnic University of Turin, Italy
14:15 -14:40PM	C28: Use of nanoparticles for improved ceramics: A case study of thermoelectric $\text{Bi}_2\text{Ca}_2\text{Co}_{1.7}\text{O}_x$	Andres Sotelo University of Zaragoza, Spain
14:40 -15:05PM	C29: Relaxor ceramics for new electrocaloric cooling technology	Zdravko Kutnjak Jozef Stefan Institute, Slovenia
15:05-15:20PM	Session Break	
Session: Ceramics for Energy IV Chair: Jean-Marc Tulliani		
15:20-15:45PM	C30: Fabrication and performance of titanium oxide Magnéli phase nanoceramics for thermoelectric applications	Romain Gaume University of Central Florida, USA
15:45-16:10PM	C31: Structural Analysis of Carbon Spheres Synthesized by Hydrothermal Carbonization Process and its Capacitive Property	Miki Inada Kyushu University, Japan
16:10-16:35PM	C32: The potential applications of luminescence nanomaterials for energy harvesting from sunshine and radiation sources	Wei Chen The University of Texas at Arlington, USA
17:30PM	Dinner Social	

Wednesday Jan. 28 Room D		
7:00-8:00AM	Breakfast	
Session: General V Chair: Toshinori Okura		
8:00-8:25AM	D18: Strategies for enhancing the thermoelectric performance of oxides	Udo Schwingenschloegl King Abdullah University of Science and Technology, Saudi Arabia
8:25-8:50AM	D19: Diffraction, ab-initio calculations and elastic constants of the MAX phases Ti_3XC_2 , X=Si,Al	Oliver Kirstein University of Newcastle, Australia
8:50-9:15AM	D20: Ferroelectric nanodomain dynamics in morphotropic phase boundary piezoelectrics studied via in-situ transmission electron microscopy	Yukio Sato Kyushu University, Japan
9:15-9:40AM	D21: Ferroelectricity in Bismuth Silicate	Hiroki Taniguchi Nagoya University, Japan
9:40-10:05AM	D22: Doping structures and luminescence properties of SiAlON:Ce and SiAlON:Eu ceramics	Fangfang Xu Shanghai Institute of Ceramics, CAS, China
10:05-10:20AM	Session Break	
Session: General VI Chair: Udo Schwingenschloegl		
10:20 -10:45AM	D23: Effects of Microstructure on Conductivity of Narpasio Glass-Ceramics	Toshinori Okura Kogakuin University, Japan
10:45-11:10AM	D24: Transparent Ceramic Scintillators: Compositional Stability, Fabrication, and Scale-Up	Zachary Seeley Lawrence Livermore National Laboratory, USA
11:10-11:35AM	D25: Brazing of SiC/SiC composite by dicilides	Laurence Maillé University of Bordeaux, France
11:35-12:00PM	D26: Thin Film Dielectrics BaTiO ₃ -Ceramics Improved Capacitors Fractal Nature	Vojislav Mitic University of Nis, Institute of Technical Sciences of Serbian Academy of Sciences, Serbia
12:25-13:25PM	Lunch Break	
Session: Defects in Ceramics Chair: Narendra Kumar Pandey		
13:25 -13:50PM	D27: Evaluation of Point Defects in Novel BaTiO ₃ -based Ceramics with High Permittivity and Dielectric-Temperature Stability	Da-Yong Lu Jilin Institute of Chemical Technology, China

13:50 -14:15PM	D28: Sub-stoichiometric functionally graded titania fibres for water-splitting applications	Vaia Adamaki University of Bath, UK
14:15 -14:40PM	D29: Critical Issues of Ceramic Injection Molding Feedstocks	Berenika Hausnerova Tomas Bata University in Zlin, The Czech Republic
14:40 -15:05PM	D30: Diffusion and reactions of interstitial excess oxygen species in amorphous SiO ₂	Koichi Kajihara Tokyo Metropolitan University, Japan
15:05-15:20PM	Session Break	
Session: Ceramic Nanostructures V Chair: Berenika Hausnerova		
15:20-15:45PM	D31: Colloidosomes and Diamondosomes: Multifunctional Inorganic Microcapsules	Michael Maas University of Bremen, Germany
15:45-16:10PM	D32: Noble metal loaded ceramic nanocomposites for solid state moisture sensing studies	Narendra Kumar Pandey University of Lucknow, India
16:10-16:35PM	D33: Fully Dense Single Phase Nanocrystalline Ceramics by Enhanced High Pressure Sintering	Boris Feigelson Naval Research Laboratory, USA
17:30PM	Dinner Social	

Thursday Jan. 29 Room B		
7:00-8:00AM	Breakfast	
Session: Ceramic-matrix Composites III Chair: Hirokazu Masai		
8:00-8:25AM	B30: Ag nanoparticle deposition on TiO ₂ nanostructures for efficient photoelectric conversion	Go Kawamura Toyohashi University of Technology, Japan
8:25-8:50AM	B31: Compressive behaviour of hollow and porous ceramic spheres in metal matrix syntactic foams	Yuyuan Zhao University of Liverpool, UK
8:50-9:15AM	B32: Strategies for preparing CNT-ceramic composites with high toughness and good resistance to friction and wear	Christophe Laurent University of Toulouse, France
9:15-9:40AM	B33: Platinum-doped Tin Oxide Nanoparticles as efficient Catalyst for Methane Oxidation	Umapada Pal Autonomous University of Puebla, Mexico
9:40-10:05AM	B34: High Peak Power Composite Material Passively Q-switched Microchip Lasers	Jun Dong Xiamen University, China
10:05-10:20AM	Session Break	
Session: General VII Chair: Christophe Laurent		
10:20 -10:45AM	B35: Luminescence of ns ² -type Emission Center in Oxide Glasses	Hirokazu Masai Kyoto University, Japan
10:45-11:10AM	B36: Surface Modification on Li-rich Layered Cathode Material for Li-Ion Batteries	Liu Li National University of Singapore, Singapore
11:10-11:35AM	B37: Atomic-scale characterization of SiAlON ceramics through aberration-corrected microscopy and spectroscopy	Hilmi Yurdakul Dumlupinar University, Turkey
12:25PM	Lunch Break	

Thursday Jan. 29 Room C		
7:00-8:00AM	Breakfast	
Session: Electronics in Ceramics IV Chair: Vaia Adamaki		
8:50-9:15AM	C33: Development for novel Bi based high Curie-temperature ferroelectrics	Jingzhong Xiao University of Coimbra, Portugal
9:15-9:40AM	C34: Distinctive Contributions to High-Temperature Dielectric Response of Relaxor Ferroelectric Lead Scandium Niobate Ceramic System	Vid Bobnar Jozef Stefan Institute, Slovenia
9:40-10:05AM	C35: Relaxor and ferroelectric behavior in tetragonal tungsten bronze ceramics	Xiaoli Zhu Zhejiang University, China
10:05-10:20AM	Session Break	
Session: General VIII Chair: Xiaoli Zhu		
10:20 -10:45AM	C36: Electrochemical Performance of Micron and Nano Overlithiated $\text{Li}_{1+x}\text{Ni}_{0.8}\text{Co}_{0.2}\text{O}_2$: Structural and Oxidation State Studies	Roshidah Binti Rusdi MARA University of Technology, Malaysia
10:45-11:10AM	C37: Spinel-Based Cathode with Extended Capacity for High Energy/Power Lithium-Ion Batteries	Jia Lu National University of Singapore, Singapore
12:25PM	Lunch Break	

Tuesday Jan. 27 15:00-16:00PM		
Poster Session		
P1	Band Gap Tuning in ZnSnO ₃ Nanorods by Site Specific Doping and Core-Shell Approach for Solar Cell Applications	Corisa Kons University of South Florida, USA
P2	Rapid Microwave Synthesis of Perovskite Oxide Nanostructures with Enhanced Functionality	Gregory Salazar University of South Florida, USA
P3	Cost-effective synthesis and characterization of Yb ²⁺ doped β -SiAlON phosphors for light emitting diodes (LEDs)	Arife Yurdakul Dumlupinar University, Turkey
P4	Hierarchical TiO ₂ Anatase Microspheres Crystallized Under Microwave Radiation	Teresa Jardiel Institute of Ceramics and Glass-CSIC, Spain
P5	The Grüneisen Parameter of Ionic Conductors	Eita Hirano Kumamoto University, Japan
P6	Co-substitution of carbonate and fluoride in Hydroxyapatite: Effect of the addition way and order of carbonate and fluoride sources	Qingxia Zhu Jingdezhen Ceramic Institute, China
P7	A study on improving photoelectric conversion efficiency of dye-sensitized solar cell by using light scattering layer of hollow TiO ₂ and SnO ₂ nanoparticles	Seung-Ho Jeon Chonbuk National University, Korea
P8	Solid Oxide Fuel Cells with (La,Sr)(Ga,Mg)O _{3-δ} Electrolyte Film Deposited by RF Magnetron Sputtering	Sea-Fue Wang National Taipei University of Technology, Taiwan
P9	Nanotribological characterization of polystyrene microspheres using atomic force microscopy	Himanshu Verma University of South Florida, USA

