Scientific Program

13th International Conference and Exhibition on
Advanced Materials and Nanotechnology

October 26-28, 2017   Osaka, Japan
Day 1  October 26, 2017

08:00-08:30  Registrations

Hall  conferenceseries.com  08:45-09:05  Opening Ceremony

Keynote Forum

09:05-09:10  Introduction

09:10-09:35  Title: Polymer-derived ceramics for space applications
S Packirisamy, Vikaram Sarabhai Space Centre, India

09:35-10:00  Title: Engineered functional nano materials
K M Liew, City University of Hong Kong, China

Sessions:
Advanced Materials and Functional Devices | Engineering Materials

Session Chair: TBA
Session Co-Chair: TBA

10:00-10:20  Title: Accelerating the exploration of Li/Na-ion battery materials via enlarged crystal structure databases
Kai-Ming Ho, Iowa State University, USA

10:20-10:40  Title: PbS nanoparticles/single-wall carbon nanotubes nanohybrid materials synthesis by means of the pulsed laser deposition approach and their integration into photoactive devices
My Ali El Khakani, Université du Québec, Canada

Group Photo  Networking & Refreshments Break 10:40-11:00

11:00-11:20  Title: Development and synthesis of polycarbonate-polyester copolymer with heat resistance
Jungup Park, Chemicals R&D Center, Republic of Korea

11:20-11:40  Title: Towards minimizing the consumption of heavy rare earths in the processing of Nd-Fe-B permanent magnets by electrophoretic deposition
Marko Soderžnik, Jožef Stefan Institute, Slovenia

11:40-12:00  Title: EXTRUDED BRIQUETTE (BREX) – New charge component for modern metallurgy
Aitber Bizhanov, Metal and Coal Extrusion-RUSSIA, Russian Federation

12:00-12:20  Title: Ultrathin multifunctional composite coatings
Väino Sammelselg, University of Tartu, Estonia

12:20-12:40  Title: Tensile creep behavior and microstructural analysis of a die-cast Mg-4Al-4RE alloy modified by Co-substitution of half RE
Jian MENG, Chinese Academy of Sciences, China

12:40-13:00  Title: Effects of loading frequency on cyclic deformation and fatigue behavior of metastable austenitic stainless steels
Davi Pessoa, Technische Universität Dresden, Germany

Session: Composite Materials

Session Chair: TBA

13:40-14:00  Title: Fabrication and applications of carbon nanomaterials filled multi-functional nanocomposites
Soon Hyung Hong, Korea Advanced Institute of Science and Technology, Republic of Korea

14:00-14:20  Title: Fabrication and characteristics of carbon nanotube based field-responsive composite materials
Hyoung Jin Choi, Inha University, Republic of Korea

14:20-14:40  Title: Engineering of 2D and 3D nanostructured hybrid composites for enhanced mechanical properties
Bongjun Yeom, Myonji University, Republic of Korea

14:40-15:00  Title: studies on the synthesis of silica powder from rice husk ash as reinforcement filler in rubber tire tread part: Replacement of commercial precipitated silica
Addis Lemessa Jembere, Bahir Dar Institute of Technology, Ethiopia

Lunch Break 13:00-13:40
Title: Landfill leachate treatment using activated carbon obtained from coffee waste. Rodrigo Poblete, Ernesto Cortesa, Yolanda Luna

Rodrigo Poblete, Universidad Católica del Norte, Chile

Title: Multiphysics property aging as a disorder process in heterogeneous functional materials

Kenneth Reifsnyder, University of Texas Arlington, USA

Networking and Refreshments Break 15:40-16:00

Title: New advances in MOFs photonics and applications

Abderrazzak Douhal, Universidad de Castilla-La Mancha, Spain

Title: Interfacial segregation and embrittlement of elements of groups 14 and 15 in ferritic iron and steels

Pavel LEJČEK, Institute of Physics, ASCR, Prague, Czech Republic

Title: Investigation of doping of CdSe QDs in organic semiconductor for solar cell applications

Ganesh Bhand, Savitribai Phule Pune University, India

Title: Role of pendant nitrile group on the liquid crystalline behavior of poly(2-cyano-p-phenylene terephthalaldehyde) solutions in N,N-dimethyl acetamide/lithium chloride

DaeEon Jung, Hanyang University, Republic of Korea

Day 2 October 27, 2017

HALL

Keynote Forum

09:00-09:25 Keynote speech slot available

09:25-09:50 Keynote speech slot available

Sessions:
Properties of Nano Materials | Carbon Nanostructures and Graphene | Nano Structures | Nano Materials | Nanotechnology-Basics to Applications

Session Chair: TBA

09:50-10:10 Title: Layer-by-Layer self-assembly nanoparticles designed for resveratrol delivery

Antonio Ribeiro, Universidade de Coimbra, Portugal

09:50-10:10 Title: The link between microstructure and friction in metals

Michael Chandross, Sandia National Laboratories, USA

Networking and Refreshments Break 10:30-10:50

10:50-11:10 Title: Optimizing the properties of TiO2 nanomaterials used as UV-blockers in sunscreen to maximise the efficiency and safety of the final product

Jerome Labille, Aix-Marseille Université, France

11:00-11:30 Title: Low temperature sintering silver nanoparticle for pressure-less die attachment

Shamik Ghosal, MacDermid Performance Solutions, India

11:30-11:50 Title: Lanthanide luminescence in nanocrystals and layered semiconductor nanosheets for biomedical and nanophotonic applications

Jianhua Hao, The Hong Kong Polytechnic University, Hong Kong

11:50-12:10 Title: 9-3- Single strand helicoidal nanofibers of photo-active polyoxazolines

Vincent Lapinte, ICGM-IAM Université Montpellier, France

12:10-12:30 Title: Rapid, simple detection of Oseltamivir-resistant influenza A Virus (H275Y mutation) using gold nanoparticles-based colorimetric probe capable of specific recognition to the H275Y NA mutation

Eun-Kyung Lim, Hazards Monitoring BioNano Research Center, Republic of Korea

Lunch Break 12:30-13:30

Young Researchers Forum

13:30-13:45 Title: Fiber network modified with graphene for foldable and wearable electronics

Pietro Cataldi, Italian Institute of Technology, Italy

13:45-14:00 Title: Sintering of ceramic materials using Refused Derived Fuel (RDF): A non-isothermal kinetic model

Rababe Sani, Université de Toulouse, France
14:00-14:15 Title: Improvement of CuO nanostructure fabrication using electrochemical migration
Shintaro Fukaya, Tohoku University, Japan

14:15-14:30 Title: Effect of O2 or H2 gas addition to Ar gas on surface modification of fluoropolymer using atmospheric pressure plasma- Application for highly adhesive Ag wiring pattern on plasma-treated fluoropolymer
Yoshinori Kodama, Osaka University, Japan

14:30-14:45 Title: Effects of bazing temperature on the joining properties of GDC-LSM/metal joint for oxygen transport membranes
MyungDong Kim, Yeungnam University, Republic of Korea

14:45-15:00 Title: Fabrication and ion-irradiation response of SiCf/SiC with different sintering additives for nuclear reactor applications
Pipit Fitriani, Yeungnam University, Republic of Korea

15:00-15:15 Title: Joining of SiCf/SiC using preceramic polymers
Dong Hyuk Jeong, Yeungnam University, Republic of Korea

15:15-15:30 Title: Visible-light nanoscale photoconductivity of grain boundaries in self-supported ZnO platelets
Nastaran Faraji, School of Materials Science and Engineering, UNSW Australia, Australia

15:35-15:55 Title: Geometries, electronic properties and stability of molybdenum and tungsten nitrides low-index surfaces
Zainab Jaf, Murdoch University, Australia

Networking and Refreshments Break 15:20-15:35

15:35-15:50 Title: TBA
Marta Perez-Lloret, Italy

15:50-16:05 Title: Ensuring the Absence of Thermal Stresses in Inhomogeneous Bodies of Simple Shape using Thermal Field and Material Characteristics
Bohdan Kalynyak, National Academy of Sciences of Ukraine, Ukraine

16:05-16:20 Title: Electrical investigations of PbTiO3 ceramics with Pb/Ti contents fabricated through solid state sintering reaction method
Wen-Yuan Zeng, Taiwan

16:20-16:35 Title: The Islamia University of Bahawalpur, Pakistan

16:35-16:50 Title: TBA
Min-Hui Chou, Taiwan

Poster Presentations 16:00-17:30
Poster Judge: TBA

AMS01 Title: Corrosion and wear behavior of harmonic structured SUS304L austenitic stainless steel
Prabhat Kumar Rai, Indian Institute of Technology, India

AMS02 Title: A self-corrogrant surface of Graphene oxide to enhance sensitivity and responsibility for various graphene oxide applications
Seungdu Kim, Korea Aerospace University, Republic of Korea

AMS03 Title: Polymer-derived nitrogen-doped carbon nanocage as an enhanced oxygen electrode in Li-O2 battery
Heejun Kweon, Yonsei University, Republic of Korea

AMS04 Title: Oxidative catalytic activity from the cysteinly bolaamphiphile assembly with hemin cofactor
CHAEMYONG LEE, Yonsei University, Republic of Korea

AMS05 Title: Mechanism of copper oxide nanostructured particles synthesized using silk fibroin template
jung wook kim, Seoul National University, Republic of Korea

AMS06 Title: Effect of Nd doping on the structural, magnetic and magnetocaloric properties of double perovskite Sr2-xNdxFeMoO6
SoEun Jeon, Changwon National University, Republic of Korea

AMS07 Title: Collagen-hyaluronan in colloidal silver
Andrea Kargerova, Brno University of Technology Purkynova, Czech Republic

AMS08 Title: Perpendicular orientation of lamella-forming block copolymer thin film by controlling interfacial interaction with substrate
Jisoo Ha, Yonsei University, Republic of Korea

AMS09 Title: Orientation controlled gyroid structure thin films by substrate interactions in solvent vapor annealing
Yeongsik Kim, Yonsei University, Republic of Korea
Title: Geometries, electronic properties and stability of molybdenum and tungsten nitrides low-index surfaces
Zainab Jaf, Murdoch University, Australia

Title: Polymeric mixed micelles as an efficient strategy for Meloxicam oral administration
Francisco Veiga, University of Coimbra, Portugal

Title: Modeling of nanoparticle surface charge for targeting glioblastoma
Joao Sousa, Faculdade de Farmácia da Universidade, Portugal

Title: The relationship between work climate and nurse educators’ use of information technology
Gonen Ayala, Ruppin Academic Center, Israel

Title: One-dimensional poly(L-lysine)-block-poly(L-threonine) assemblies as anticancer agents
Chao-Liang Wu, National Cheng Kung University Medical, Taiwan

Title: Oligopeptide-based polymers targeting human antigen R (HuR) for the treatment of psoriasis
Ai-Li Shiau, National Cheng Kung University, Taiwan

Title: Molecular dynamics study of graphene moebius bands: Equilibrium shapes and energies
Yoichi Takato, Okinawa Institute of Science and Technology Graduate University, Japan

Panel Discussion

Day 3 October 28, 2017
HALL

Sessions:
Optical Materials and Plasmonics | Energy and Harvesting Materials | Optical Materials and Plasmonics

Session Chair: TBA

09:30-09:50 Title: Electrically driven plasmon nanosource, application to a plasmonic lens
Gerald Dujardin, Université Paris-Sud, France

09:50-10:10 Title: Smart Materials for energy harvesting and thermal management- Adaptive control and self-driven devices for heat transfer
yuyan Jiang, Chinese Academy of Sciences, China

10:10-10:30 Title: Nonlinear optical properties of the WS2 and its pulsed laser applications
Yuen Hong Tsang, The Hong Kong Polytechnic University, Hong Kong

10:30-10:50 Title: Lanthanide luminescence in nanocrystals and layered semiconductor nanosheets for biomedical and nanophotonic applications
Jianhua Hao, The Hong Kong Polytechnic University, Hong Kong

Networking and Refreshments Break 10:30-10:50

10:50-11:10 Title: (A2+B3) Approach Hyperbranched Polyester based Polyurethane-Urea (HBPU-Urea) and Polyurethane-Urea-Sulfur (HBPU-Urea-Sulfur) hybrid coating films: Brief Study of Hydrogen bonding interaction, morphology and mechanical properties
Kishore Jena, Khalifa University of Science And Technology, UAE

11:10-11:30 Title: In-situ synthesis of vertical standing nanosized NiO encapsulated in graphene as electrodes for high-performance supercapacitors
Jinghuang Lin, Harbin Institute of Technology, China

11:30-11:50 Title: Rare earth-doped Y3A15O12 (YAG) nanosphosphors: Synthesis and applications in energy savings devices and nanomedicine
Gustavo A HIRATA, National Autonomous University of Mexico, Mexico

11:50-12:10 Title: Complex characterization of ZK60 alloy processed by ECAP
Florina-Diana Dumitru, Romania

12:10-12:30 Title: Performant cement based materials reinforced with nano-SiO2
Mihaela-Andreea, Romania

12:30-12:50 Title: Purification of waste waters contaminated with heavy metals using filters made of advanced silica based materials
Andreea-Georgiana, Romania

Lunch Break 12:50-13:40

13:40-14:00 Speaker slot available
14:00-14:20 Speaker slot available
14:40-15:00 Speaker slot available
15:00-15:20  Speaker slot available
15:20-15:40  Speaker slot available

Awards & Closing Ceremony

Networking and Refreshments Break 15:40-16:00

Panel Discussion

Please note that this is a tentative program
Timings in this program October subject to change

For Speaker opportunities and related queries contact us at:

adadvancedmaterials@materialsconferences.com