Day 1 | March 20, 2017 | Monday

08:30-09:00 Registrations

09:00-09:15 Opening Ceremony

Keynote Forum

09:15-09:20 Introduction
09:20-09:55 Title: Chemical ordering phenomena in nanostructured FePt: Monte Carlo simulations
   Rafal Abdank-Kozubski, Jagiellonian University in Krakow, Poland
09:55-10:30 Title: Development of self-healing metallic materials and composites
   Pradeep K. Rohatgi, University of Wisconsin-Milwaukee, USA
10:30-11:05 Title: Nanocomposite materials: Trends and challenges
   Kim Meow Liew, City University of Hong Kong, Hong Kong

Group Photo

Coffee Break: 11:05 - 11:30 @ Foyer

11:30-12:05 Title: Smart functional materials for energy: From laboratory to commercialization
   Elias Siores, University of Bolton, UK

Session: Smart Materials and Technologies | Smart Biomaterials

Session Chair: Elias Siores, University of Bolton, UK
Session Co-Chair: Kim Meow Liew, City University of Hong Kong, Hong Kong

Session Introduction

12:05-12:30 Title: Supramolecular chemistry: A powerful tool to elaborate colorful multi-stimuli responsive macromolecular materials
   Patrice Woisel, University of Lille, France

12:30-12:55 Title: The damage self-sensing response of ultra-high performance fiber-reinforced concrete in tension
   Dong Joo Kim, Sejong University, Republic of Korea

12:55-13:20 Title: Investigation on electromechanical harvesting schemes to improve the performance of viscoelastic dielectric elastomer generators
   Liying Jiang, The University of Western Ontario, Canada

Lunch Break 13:20-14:20 @ Restaurant

14:20-14:40 Title: Wearable electronics based on graphene-coated conductive textile fibers
   Elias Torres Alonso, University of Exeter, UK

14:40-15:00 Title: Development of piezoelectric properties in PVDF: Effect of particle concentration and stretching variables
   Nusrat Jahan, Polytechnique Montreal, Canada

15:00-15:20 Title: Design optimisation, control and experimental characterization of flapper mechanism with amplified piezo actuator
   Ihsan Burak Temelturk, Middle East Technical University, Turkey

Panel Discussion: 15:20-15:35

Coffee Break 15:35-15:50 @ Foyer

Session Chair: Rafal Abdank-Kozubski, Jagiellonian University in Krakow, Poland
Session Chair: Lu-Wen Zhang, Shanghai Jiao Tong University, China

15:50-16:15 Title: Nano-biocomposites for biomedical application
   Igor Y Denisyuk, ITMO University, Russia

16:15-16:40 Title: Advanced light sensing natural proteins that can detect light intensity
   Masahide Terazima, Kyoto University, Japan
Title: Mechanics based design and testing of crack closing self-healing materials to carry external loads
Nathan P Salowitz, University of Wisconsin-Milwaukee, USA

Title: Microfluidic-enabled electrochemical studies of boron-doped ultrananocrystalline diamond microelectrodes for chronic neurochemical sensing
An-Yi Chang, Louisiana Tech University, USA

Title: Mechanisms of mass transfer on porosity during solidification
Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan

Panel Discussions 17:45 -18:00
Day 2 | March 21, 2017 | Tuesday
Hall - B

Keynote Forum

10:00-10:35 Title: Saddle point energies for atomic jumps and thermodynamic activation energy for ordering and diffusion in intermetallic compounds: Atomistic simulations
Rafal Abdank-Kozubski, Jagiellonian University in Krakow, Poland

10:35-11:10 Title: Lab-on-sensor concept, calibration, and application in evaluation of structural behaviors under environmental and loading conditions
Genda Chen, Missouri University of Science and Technology, USA

Coffee Break 11:10-11:25 @ Foyer

Sessions: Nanomaterials and Nanotechnology | Optical and Electronic Materials
Session Chair: Elias Siores, University of Bolton, UK
Session Chair: Dinesh Thanu, Intel Corporation, USA

11:25-11:50 Title: Modulating the surfactant structure around single wall carbon nanotubes for single chirality separations
Kirk J Ziegler, University of Florida, USA

11:50-12:15 Title: Fabrication of hierarchical structures using electrospinning for dry adhesive applications
Avinash Baji, Singapore University of Technology and Design, Singapore

12:15-12:40 Title: Enhanced surface passivation effect in porous GaN for high performance H₂ gas sensors at room temperature
Adel Najar, United Arab Emirates University, UAE

12:40-13:05 Title: Electrical resistivity change of SeTeAg compositions to thermal and pressure as stress
Neeru Chaudhary, Panjab University, India

Lunch Break 13:05-14:05 @ Restaurant

Session Chair: Rafal Abdank-Kozubski, Jagiellonian University in Krakow, Poland
Session Chair: Dinesh Thanu, Intel Corporation, USA

14:05-14:30 Title: Optical and electrical characterization of Co doped Ge-Sb-S films
Naser Qamhieh, United Arab Emirates University, UAE

14:30-14:55 Title: Electronic and optical properties of transition metal dichalcogenides in the presence of vacancy defects
Michael N. Leuenberger, University of Central Florida, USA

14:55-15:15 Title: Fabrication of low resistive and stable Li-P co-doped p-type ZnO by dual ion beam sputtering
Pankaj Sharma, Indian Institute of Technology Indore, India

Panel Discussions 15:15-15:30

Coffee Break 15:30 - 15:45 @ Foyer

Poster Presentations 15:45-16:45

Title: Concentration of 226Ra, 232Th and 40K radionuclides in natural products commonly used as cosmetics materials
Jamilah Al-Zahrani, King Abdulaziz University, Kingdom of Saudi Arabia

SMS 01
Title: Effect of different diisocyanates on the cytotoxicity and degradability of polyurethanes based on castor oil  
Jeimmy Carolina Ibarra Chávez, Universidad de La Sabana, Colombia

Title: Structural and optical characterizations of thin organic films of thioindigo  
Najla Khusayfan, King Abdulaziz University, Kingdom of Saudi Arabia

Title: Reduction of thermal conductivity in $\text{La}_2\text{Mo}_2\text{O}_9$ by substitution of Bi dopant  
Kyung Min Ok, Osaka University, Japan

Title: Modification of structural and optical properties of PVA/PEG thin film by laser irradiation  
Mymona Mohsseen Abutalib, King Abdulaziz University, Kingdom of Saudi Arabia

Title: Synthesis of low-cost polyhedral networks from vitreous carbon: process parameters and orthopaedic applications  
Viviana Guiza, Universidad Industrial de Santander, Colombia

Title: Activity size distribution of some natural radionuclides  
Zain M Al-Amoudi, King Abdulaziz University, Kingdom of Saudi Arabia

Title: Phase transformations during mechanical alloying of FeAl and FeAlSn alloys  
Zineb Hamlati, University of Blida 1, Algeria

Best Poster Award Presentation 16:45-17:00

Day 3 | March 22, 2017 | Wednesday

Hall - B

Keynote Forum

09:00-09:35 Title: Recent advancement of renewable smart materials  
Jaehwan Kim, Inha University, South Korea

09:35-10:10 Title: Bioinspired gradient surfaces: From design to functions on wettability  
Yongmei Zheng, Beihang University, China

Coffee Break 10:10-10:25 @ Foyer

Sessions: Materials for Energy Conversion and Storage Devices | Smart Structures

Session Chair: Jaehwan Kim, Inha University, South Korea  
Session Co-Chair: Yongmei Zheng, Beihang University, China

10:25-10:50 Title: Thermal degradation of two tung oil based reactive diluents and linseed oil alkyd  
Satilmis Basan, University of Hittite, Turkey

10:50-11:15 Title: In situ geothermal test results for multilayer coated steel  
Ioana Csaki, Politehnica University Bucharest, Romania

11:15-11:40 Title: Smart nanomaterials structures  
Wolfgang Sigmund, University of Florida, USA

11:40-12:00 Title: $\alpha$-hematite-molybdenum disulfide and polyhexylthiophene (RRPHTh)-nanodiamond (ND) electrodes for photoelectrochemical applications  
Hussein Alrobei, University of South Florida, USA

12:00-12:20 Title: Graphene reinforced concrete  
Dimitar Dimov, University of Exeter, UK

Panel Discussions 12:20 - 12:40

Lunch Break 12:40-13:40 @ Restaurant

4th International Conference on Smart Materials & Structures

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