

2nd International Conference

Material Science & Nanotechnology Conference

July 15 - 17, 2019 London, UK

Tentative Scientific Program

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Monday

Day 1 - July 15, 2019

08:00-09:15 ———— **Registrations**
09:15-09:30 ———— **Opening Ceremony**

KEYNOTE FORUM

Title: Electromagnetic Treatment of Genetic and Infectious Diseases Without Side Effect

E. E. Escultura, Research Professor (Honorary), GVP College of Engineering, Australia

Title: Materials Research Opportunities for Power Electronics Integration

Guo-Quan Lu, Virginia Tech, USA

Title: Effect of structural relaxation and rejuvenation on the properties of shear transformation zones

Michael Atzmon, The University of Michigan, USA

Title: Advanced materials for nuclear energy applications

Gary S. Was, University of Michigan, USA

Title: Reactivity of small hydrocarbons on Pd-Cu alloy nanoparticles supported on thin silica films: A model catalyst

M. Asscher, The Hebrew University of Jerusalem, Israel

Group Photo

Coffee Break

Plenary Talk

Title: A Multiphysics Modelling of Magnetic-Sensitive Hydrogels

Hua Li, Nanyang Technological University, Singapore

Sessions:

**Materials Science and Engineering | Emerging Areas of Materials Science,
Materials Process Engineering and Materials Chemistry**

Title: Industry Applicable Nanotechnologies: to Quality Enhancement Approaches and Quantitative Assessment Tools for Nano-Systems

W.H. Katie Zhong, Washington State University, USA

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Monday

Title: Impact of Additives in 3D printing

Hunaid Nulwala, Liquid Ion Solutions, USA

Title: Materials Process Engineering for extremely miniaturized micro batteries

Robert Hahn, Fraunhofer IZM, Germany

Lunch Break

Title: Highly flexible nanocomposite for piezo-resistive sensor by spatial confining forced network assembly

Xiaolong Gao, Beijing University of Chemical Technology, China

Title: Tunability of thermoreversible gelation in K-carrageenan and salt on of hydroxyl methylcellulose in the presence of antioxidant

Leela Rakesh, Central Michigan University, USA

Speaker Slot Available

Title: Phase transitions in silver niobate ceramics for high power energy storage

Haixue Yan, Queen Mary University of London, UK

Coffee Break

Title: Investigation of poly(methylene blue) as functional material in modified carbon fibers electrodes applied into energy storage devices

Leandro Marques Samyn, Centro Federal de Educação Tecnológica Celso Suckow da Fonseca (CEFET/RJ), Brazil

Speaker Slot Available

Title: Pd nanoparticles supported on amino-modified silica hollow microspheres with macroporous shells for NBR hydrogenation

Pei Yuan, Fuzhou University, China

Panel Discussions

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Tuesday

Day 2 - July 16, 2019

KEYNOTE FORUM

Title: Nanotechnology of composite materials for energy storage in supercapacitors

Igor Zhitomirsky, McMaster University, Canada

Title: Chemical Reactions between Refractories, Liquid Steel and Slags in Refining and Continuous Casting Processes and the Associated Fluid Flow Effects

Rodolfo D. Morales, University of Toronto, Canada

Title: Design of nanomaterials for gene delivery

Yaroslava G. Yingling, North Carolina State University, USA

Keynote Speech to be announced

Sessions:

**Biomaterials and Healthcare | Ceramics, Glasses & Composite
Materials and Electronic, Optical and Magnetic Materials**

Title: The effect of particle size of body components on the processing parameters of semi transparent porcelain

Fazilet Güngör, Kütahya Porselen Sanayi A.Ş, Turkey

Coffee Break

Title: PVA hydrogels loaded with natural materials for wound care

Renata Nunes Oliveira, Federal Rural University of Rio de Janeiro, Brazil

Speaker Slot Available

Title: High-brightness Ce:YAG transparent ceramic fluorescence for laser speckle reduction

Yuan Yuan, Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, China

Speaker Slot Available

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Tuesday

Lunch Break

Title: “Nano-Nectar” Technology for Efficiently Manufacturing Structural Composites

W.H. Katie Zhong, Washington State University, USA

Title: Orientation of crystalline silicon cut off-axis using polarized Raman scattering

Uma Ramabadran, Kettering University, USA

Speaker Slot Available

Speaker Slot Available

Title: Aptamer-conjugated multi-walled carbon nanotubes as a new targeted ultrasound contrast agent for the diagnosis of prostate cancer

Zhongjian chen, Tongji University, China

Coffee Break

Title: The New Operation of Semiconductor Junctions

Qing Zhang, Nanyang Technological University, Singapore

Speaker Slot Available

Title: Nano-silver ink of high conductivity and low sintering temperature for paper electronics

Lixin Mo, Beijing Engineering Research Center of Printed Electronics, People's Republic of China

Panel Discussions

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Wednesday

Day 3 - July 17 2019

Sessions:

Advanced Nanomaterials | Nanotech in Life Sciences and Medicine

Title: Atomic and Isomeric Separation of Thiolate-Protected Alloy Clusters

Yuichi Negishi, Tokyo University of Science, Japan

Title: Epitaxial growth and characterization of β -Ga₂O₃/GaN heterojunction

Sunan Ding, Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, China

Speaker Slot Available

Title: Applying Ion-Sensitive Field Effect Transistor for Pesticide Detection

Nongluck Hounkhamhang, King Mongkut's Institute of Technology Ladkrabang, Thailand

Speaker Slot Available

Title: Cushioning running shoes vs “minimalist” and biomechanical modifications during gait

Ruben Sanchez-Gomez, Complutense University, Spain

Title: Tailoring And Multiscale Characterization of Functional Interfaces in Carbon Fiber Based Composite Materials

Jannick DUCHET-RUMEAU, Université de Lyon, France

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Wednesday

Poster Presentations

Title: Design and Optimization of micro to macro scale dimension of Pacemaker Electrode using Finite Element Method

Elaina Madison, Central Michigan University, USA

Title: Effect of high temperature annealing and SHI irradiation on migration behaviour of Xe implanted into glassy carbon

Mahjoub Yagoub Abdalla Ismail, University of Pretoria, South Africa

Title: Shock-induced {11-21}-{11-22} Double Twinning in Titanium

Ping Zhou, Science and Technology on Surface Physics and Chemistry Laboratory, China

Title: Low temperature synthesis of tungsten diboride powders via a simple molten salt route

Ke Ma, Northeastern University, China

Title: The influence of Ytterbium doping on electrochemical performance and catalytic activity of Mn₃O₄ nanoparticles: Synthesis, characterization and BET study

Sang Woo Joo, Yeungnam University, South Korea

Panel Discussions

Conference Venue:

Park Inn by Radisson Hotel & Conference Centre

Bath Road, Heathrow Middlesex

UB7 0DU London Heathrow

United Kingdom

Website: https://www.parkinn.co.uk/airport-hotel-heathrow?facilitatorId=CSOSEO&cs-ref=org_gmb_pd_en_sn_ho_LHRPQ