



# International Conference on Materials Science and Graphene Technology

Tentative Program



**SPEAKER SLOTS  
AVAILABLE**

**Venue:**

●  
**Hotel Holiday Inn Express  
Airport Road, Dubai International  
Airport,  
Near Terminal 3  
Dubai, United Arab Emirates**

*Contact Us: [materialscience@ citationsinternational.com](mailto:materialscience@ citationsinternational.com)*

**April 09-11, 2018  
Dubai, UAE**

**Media Partners:**

## Chairman Of The Conference

Daniel Choi

Chair of the International Conference on Materials Science and Graphene Technology 2018

Masdar Institute of Science and Technology A Part of Khalifa University of Science and Technology

### WELCOME TO MATERIALS SCIENCE AND GRAPHENE TECHNOLOGY CONFERENCE

It is my great pleasure and honor to extend to you a warm invitation to attend **the International Conference on Materials Science and Graphene Technology** hosted by the Citations International, in Joint collaboration with Pan Asian Clinical Research Association (PACRA), to be held in April 09-11, 2018 in Dubai, United Arab Emirates.

The theme of the International Conference on Materials science and Graphene Technology 2018 *'Revolutionizing the New Horizon in Materials Science and Graphene Research – Investing in Scientific Research and Education'* will under spin the need for collaboration and cooperation of individuals from a wide range of professional backgrounds.

Dubai is an exceptional location for the conference. It is renowned for its distinctive architecture. This busy metropolis invigorates visitors with a unique energetic atmosphere, outstanding Tourists attraction such as Burj Khalifa, which attracts tourists from across the globe, cultural events, international cuisine, and non-stop active nightlife.

The International Conference on Materials Science and Graphene Technology 2018 is sure to provide a wonderful forum for you to refresh your knowledge base and explore the innovations in Materials Science and Graphene Technology. The conference will strive to offer plenty of networking opportunities, providing you with the opportunity to meet and interact with the leading scientists and researchers, educators, friends and colleagues as well as sponsors and exhibitors.

We would also like to encourage you and your research group(s) to submit papers/abstracts to International Conference on Materials Science and Graphene Technology 2018 and distribute the call for paper/abstracts of this conference as well. Your work in this field will be left a great imprint in the research field. We would like to use our event to bring the spotlight on your achievements.

I hope you will join us for the symphony of outstanding science and engineering as well as taking a little extra time to enjoy the spectacular and unique beauty of this region.

Yours sincerely,



**Daniel Choi**

Chair of the International Conference on Materials Science and Graphene Technology 2018  
Masdar Institute of Science and Technology A Part of Khalifa University of Science and Technology



# Day 1: Program

**General Session: Introduction 09:00-09:10**

## **Chairman Presentation: 09:10AM-09:30AM By**

**Prof. Daniel Choi on “New Carbon Allotropes: Novamene and Protomene as Future Advanced Carbon-based Nanomaterials**

## **Plenary Session: 9:30AM-10:00AM**

**By**

**Prof. Leszek Adam Dobrzański on “Effect of the biocompatible thin films on the properties of the skeleton materials fabricated by selective laser sintering for medical and dental application ”**

## **Session 1**

Title: The Issue with Magnesium Materials: Why this Materials Class Still Is Waiting for the Breakthrough

**Karl Ulrich Kainer, Germany**

Title: Complex Analysis of The Porous Structure of Activated Carbons Prepared from Biomass Waste Materials by Carbonisation and Activation with Potassium Hydroxide

**Mirosław Kwiatkowski, Poland**

Title: Flexible quantum dots sensitized solar cells

**Basma El Zein, Saudi Arabia**

Title: Graphene and Metal Oxide or Sulfide Nanocomposites for Energy Storage and Photocatalysis

**Jae-Jin Shim, South Korea**

**Coffee Break**

**11:00 AM-11:30AM**

## **Session 2**

Title: Nuclear Technique (PAT) Challenge (XRD & HV) Techniques for Probing Properties of Material Science (Aluminum Alloy)

**Emad A. Badawi, Egypt**

Title: Techniques (PAL-XRD) for Detecting Grain Size in (6082 heat- treatable Al Alloy

**M. A. Abdel-rahman, Egypt**

Title: Study Effect of Plastic Deformation by Vickers Hardness on 1070, 6082 & 6063 Al Alloy

**S. A. Aly, Egypt**

Title: Iron Pthalocynine Decorated Graphene Based Field Effect Transistor For Ammonia Gas Sensing

**Muhammad Arsalan, China**

**Lunch Break**

**01:00-02:00**

## **Session 3**

Title: Solar Disinfection of Water with Nano-Titanium Dioxide

**Ibrahim E. EL-Seesy, Saudi Arabia**

Title: Light-assisted synthesis of metal nanoparticles and nanocomposites: an efficient green approach to obtain smart nanomaterials

**Lavinia Balan, France**

Title: Application of high strength materials in automotive industry

**Miklós Tisza, Hungary**

Title: of the attractive potentials on Coulomb crystal formation

**Swati Baruah, India**

**Coffee Break**

**04:00-04:30**

## **Session 4**

Title: Nanomaterials From Biological, Pharmaceutical And Kitchen Wastes — A Step Towards Environmental Protection

**Anal K. Jha, India**

Title: The Development of Irrigation Ditch Mix with Rubber Latex for Farm Irrigation System

**Pheerawat Plangoen, Thailand**

Title: Synthesis And Supercapacitor Behaviour Of Go/V2o5thin Films

**F. Meydaneri Tezel, Turkey**

# Day 2: Program

General Session: Introduction 09:00-09:10

## Key Note Presentation: 09:10-09:30

Coffee Break 09:30-10:00

### Session 5

Title: Probing the Subtle Magnetic Order with Raman Spectroscopy in a Layered Manganite Single Crystal

**Mehmet Egilmez, U.A.E**

Title: Non-destructive studies of microstructure and elemental composition of crystalline materials through energy-resolved neutron imaging

**Anton S. Tremsin, California**

Title: Swelling Elastomers in Petroleum Drilling Operations: Comparison of Material Models

**Sayyad Zahid Qamar, Muscat, Oman**

Title: The fabrication of advanced multi-functional protective organic coatings based on polyelectrolytes encapsulated nanotubes filled with active agents

**Demian I. Njoku, China**

### Session 6

Title: Studies on Si Nanoparticles from *Cymbopogon flexuosus* - Role in Herbal tea

**Suchetha, India**

Title: Theoretical Study on Electronic Structure and Optical Performance of Nickel and Cerium Codoped Rutile Titanium Dioxide

**Amraoui Rabie, Guelma, Algeria**

Title: Plasma CVD Growth of Graphene: Advantages, Challenges and a Scalable Nanomanufacturing Perspective

**Anurag Kumar, West Lafayette, USA**

Title: Synthesis, characterization and electrochemical performance of Sb<sub>2</sub>SnS<sub>4</sub> using different sources of S for solar cell application

**Atef Y. Shenouda, Egypt**

Lunch Break 01:00-02:00

### Session 7

Title: Chemical Attack Of Compressed Stabilized Earth Blocks Cseb

**Chaibeddra Sihem, Algeria**

Title: Studies by simulation (BCA) of Frenkel pairs and impurities in Tantalum

**Elias, Algeria**

Title: Polymer Electrolyte Membranes for Fuel Cell Applications

**Hamdy F. M. Mohamed, Minia, Egypt**

Title: Segregation of samples on the basis of variation in tempering temperature and time by using non-destructive eddy current testing

**Javeria Hashmi, Islamabad, Pakistan**

Coffee Break 04:00-04:30

### Session 8

Title: Ab initio calculations of the lattice thermal conductivity and the discovery of new thermoelectric materials

**Laurent Chaput, France**

Title: Studies on the Morphological and Wetting properties of Polytrimethylene terephthalate (PTT)/ Multi walled carbon nanotube (MWCNT) Nanocomposites

**Lovely P. Mathew, Kerala, India**

Title: Development of amphiphilic magnetic carbon nanocomposite from saw-dust for enhancing oil recovery from petroleum wastewater

**Mostafa M.H. Khalil, Cairo, Egypt**

# Day 3: Program

General Session: Introduction 09:00-09:10

Key Note Presentation: 09:10-09:30

Coffee Break

09:30-10:00

## Session 9

Title :Effect Of Novel Treatment Based On Pld-deposited Pbs Nanoparticles/Porous Si On The Opotoelectronic Properties Of Mc-silicon

**Mounir Gaidi, Sharjah, UAE**

Title: Carbon Nanotubes Nanofluids For Solar Desalination

**Muataz A. Hussien, Doha, Qatar**

Title: Using correlation coefficient for determining Suitability of Eddy Current Testing for Quality Control of heat treated steel

**Mustafa Mumtaz, Islamabad, Pakistan**

Title: Sequestration of Carbon Dioxide using Metal Nanoparticles

**Nezar H. Khadry, Saudi Arabia**

## Session 10

Title : Properties of Carbon Nanotubes

**Oudjertli Salah, Algeria**

Title: Graphene oxide-containing biocomposite for thermal management applications

**Suprakas Sinha Ray, South Africa**

Title: Ultrasonic and molecular interaction studies on few nano fluids with a focus on cost effective instrumentation techniques

**Venkatramanan, India**

Title: Photocatalytic properties of silver-loaded hydrothermaltitania(TiO<sub>2</sub>) nanotubes

**Vincent Joseph Garcia, Philippines**

Lunch Break

01:00-02:30

## Session 11

Title: Synthesis and Evaluation of Low Cost Nanofibers Catalyst for Fuel Cell Applications

**E.E.Abel-Hady, Egypt**

Title:Numerical study of compression response of open-celled Aluminum foam structure using 3-D Voronoi diagram model

**Mohamed H.Abdelshafy,Egypt**

Title: Carbon Nanotube reinforced thermoplastic nanocomposites with superior production economics for oil/ gas applications

**Fawad Inam, UK**

## Speaker Slots Available

Scientific Tracks of Materials Science and Graphene Technology Conference

- Materials Science & Engineering
- Graphene Fullerenes and 2D Materials
- Nanotechnology, Nanomaterial & Microstructures
- Metallurgy, Mining and Advanced Metal Extractions
- Batteries, Energy Materials Superconductors
- Polymer Science and Engineering
- Crystallography
- Biomaterials, Biodegradables &Tissue Engineering
- Electronic, Optical, Magnetic & Multiferroic Materials
- Computational Modelling, Processing & Simulation of Metals & Materials
- Glasses, Ceramics &Composite Materials
- Smart & Hybrid Materials
- Physics and Chemistry of Materials
- Materials Characterization and Testing of Materials-
- Advanced Emerging Materials
- Materials for Green Energy Technology and Sustainable Development

Venue:

**Holiday Inn Express Airport**  
**P. O. Box 35257 Umm Ramool, Opposite Terminal 3**  
**Dubai, United Arab Emirates**



**Conference Dates: April 09-11, 2018**

**Dubai Attractions:**

*The Burj Khalifa*



*Dubai Palm Islands*

*Burj Al Arab, Dubai*



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