

Scientific Program

3rd Global Conference and Expo on

Applied Science, Engineering and Technology

&

6th Global Congress & Expo on

Materials Science and Nanoscience

October 07-09, 2019 | Dubai, UAE



Scientific Federation

Panjagutta, Hyderabad, Telangana-500082, India

Day 1 October 07, 2019

Al Habari

- 08:00-09:00 Registrations
09:00-09:15 Introduction & Opening Words

Plenary Forum

- 09:15-10:00 **Title: Applied Medicine and Laws of Informational Spacetime: $E = mc^2$**
Rudolf Klimek, Jagiellonian University Cracow, Poland
- 10:00-10:45 **Title: On the Online Monitoring and Performance of Centrifugal Compressors**
Mohamed Gadala, Abu Dhabi University, UAE

Refreshments Break 10:45-11:00 @ Foyer

- 11:00-11:45 **Title: The Static and Dynamic Capacity of Pizeoceramic Material in Converting Mechanical Energy to Electrical Energy**
Shuli Fan, Dalian University of Technology, China
- 11:45-12:30 **Title: Solar Hydrogen Production by Photocatalytic Water Splitting Panel**
Kazunari Domen, Shinshu University, Japan
- 12:30-13:15 **Title: Design and Synthesis of Polymeric Semiconductors for High-Performance Field-Effect Transistors**
Yunqi Liu, Chinese Academy of Sciences, China

13:15-13:20

Group Photo

Lunch Break 13:20-14:00 @ Restaurant

Keynote Forum

- 14:00-14:40 **Title: Energy-optimized Routing with Application in Delivery Drones**
Ignatius Fomunung, University of Tennessee at Chattanooga, United States
- 14:40-15:20 **Title: Real-Time Pavement Condition Assessment using Deep Learning, UAV, Raspberry Pi, and Infrared Thermography Camera**
Joseph Owino, University of Tennessee at Chattanooga, United States
- 15:20-16:00 **Title: Seismic Performance of Air Traffic Control Towers**
Mohammadreza Vafaei, University of Technology Malaysia, Malaysia

Refreshments Break 16:00-16:15 @ Foyer

- 16:15-16:55 **Title: Anisotropic Silicon (110) Reconstruction**
Hidehito Asaoka, Japan Atomic Energy Agency, Japan

Invited Talks

- Sessions** Applied Physics | Applied Chemistry | Chemical Engineering | Computer and Information Sciences | Nuclear Engineering | Biomedical Engineering
- Session Chair** Samya Zain, Susquehanna University, USA
- 16:55-17:25 **Title: Making Connections: Personalized Approach to Teaching and Learning**
Samya Zain, Susquehanna University, USA
- 17:25-17:55 **Title: Most Efficient Cooling Cycle for Future Sustainable Cities**
Muhammad Wakil Shahzad, King Abdullah University of Science and Technology, Saudi Arabia

Closing the Conference for the Day 1

Day 2 October 08, 2019

Al Habari

Keynote Session

- 09:15-09:55 **Title: Nano-Mechanical Testing of Advanced Ceramics**
Jan Duzsa, Slovak Academy of Sciences, Slovak Republic
- 09:55-10:35 **Title: Application of FRP Composites for Strengthening Reinforced Concrete Bridges**
Vijaya Gopu, University of Louisiana, United States

10:35-11:15 **Title: Metal Nanoparticles in Functionalization and Directed Deliver of Drug Substances**
Tatyana Shabatina, M.V.Lomonosov Moscow State University, N.E. Baumann Moscow State Technical University, Russian Federation

Refreshments Break 11:15-11:30 @ Foyer

11:30-12:10 **Title: Biofillers as Potential Thermoplastic and Thermoset Biodegradable Composites for Ecofriendly Products**

Rahmah Mohamed, University Technology MARA (UiTM), Malaysia

12:10-12:50 **Title: Built Heritage: Diagnostic and Uncertainties in the Structural Assessment**

Silvia Santini, Roma Tre University, Italy

Lunch Break 12:50-14:00 @ Restaurant

14:00-14:40 **Title: Nanostructured Contact Lenses for Wearable Diagnostics**

Haider Butt, Khalifa University, UAE

Oral Talks

Sessions **Ceramics | Polymers and Composite Materials | Oil | Gas | Energy & Mining Engineering | Space Technologies | Aeronautics & Aerospace Engineering | Data Mining and Knowledge**

Session Chair **Asaoka Hidehito, Japan Atomic Energy Agency, Japan**

14:40-15:10 **Title: Study on the NO Oxidation using O₃: The Oxidation Product Composition and Oxidation Selectivity**

Xiaolong Liu, Chinese Academy of Sciences, China

15:10-15:40 **Title: Design Principle Parameters Improve Cook Stove Efficiency: An Effective Study of Mitigating Global Climate Change**

Arvind Kumar Drave, IIT Kanpur, India

15:40-16:10 **Title: Theoretical and Experimental Investigation on Synthesizing and Characterizing of High Temperature Carburized Powder Metallurgy Gear**

S. Selvi, Institute of Road and Transport Technology, India

Refreshments Break 16:10-16:25 @ Foyer

16:25-16:55 **Title: Self-synthesized Silver Sulfadiazine (AgSD) on PAN nanofibers; Application as Electrospun Novel Wound Dressing**

Sana Ullah, Shinshu University, Japan

16:55-17:25 **Title: Multilayer Composites with Self-Healing Materials: Aerospace Applications**

Gerardus Janszen, The Polytechnic University of Milan, Italy

17:25-17:55 **Title: Zein Nanofibers as Drug Carrier for Wound Dressing Applications**

Motahira Hashmi, Shinshu University, Japan

Poster Presentations

P-001 **Title: Study on the Catalytic Properties of Ru/TiO₂ Catalysts for the Catalyticoxidation of (Chloro)-Aromatics**

Jian Wang, Chinese Academy of Sciences, China

P-002 **Title: Ni/Mn-MOF-74 as a Novel Catalyst for Low Temperature Selective Catalytic Reduction (SCR) of NO with NH₃**

Wenqing Xu, Chinese Academy of Sciences, China

P-003 **Title: Study on the Catalytic Oxidation of Chlorobenzene Over Noble Metals (Pd, Pt, Ru, Rh) and the Distributions of Polychlorinated By-products**

Tingyu Zhu, Chinese Academy of Sciences, China

P-004 **Title: Flexible Photodetectors based on Organic Semiconductors**

Yunlong Guo, Chinese Academy of Sciences, China

P-005 **Title: Influence of Substrate on the Structural, Electrical and Optical Properties of Germanium Telluride Films**

Ashraf Ali, United Arab Emirates University, UAE

P-006 **Title: Mechanical characterization of Breast Prosthesis: Static Analysis**

Gerardus Janszen, The Polytechnic University of Milan, Italy

Closing the Conference for the Day 2

Day 3 October 09, 2019

Al Habari

Keynote Session

09:15-09:55 **Title: Recently Developed High Performance Advanced Heat Resistant Materials for High Efficient and Clean Energy Technology**

Guocai Chai, Linköping University, Sweden

Oral Talks	
Sessions	Metamaterials for Optic & Optoelectronic Applications Materials Science & Engineering Materials Chemistry and Sustainable Chemistry Nanomagnetism & Magneto-Optical Materials Nanomaterials and Nano-Composites
Session Chair	Muhammad Wakil Shahzad, King Abdullah University of Science & Technology, Saudi Arabia
09:55-10:25	Title: X Ray Diffraction for Nanomaterials Characterization Aitor Larrañaga Varga, University of the Basque Country, Spain
10:25-10:55	Title: The Role of Water in the Responsive Properties in Lipid Interphase of Biomimetic Systems Aníbal Di Salvo, National University of Santiago del Estero and CONICET, Argentina
Refreshments Break 10:55-11:10 @ Foyer	
11:10-11:40	Title: Innovative Design of Efficient La_{2-x}Pr_xNiO_{4+δ}- Based Cathode for Solid Oxide Fuel Cells Elisabeth Djurado, Université Grenoble Alpes, France
11:40-12:10	Title: Key Role of Chemistry in the Development of High-Performance Polymers: Example of Preparation of Inherently Flame-Retardant Polylactide Fouad Laoutid, University of Mons UMONS, Belgium
12:10-12:40	Title: A New Technique for Mass Production of Metal Nano-Powders Penguxn Yan, Gansu Academy of Sciences, P.R.China
12:40-13:10	Title: Synthesis of Metal-Organic Framework Adsorbents and Membranes for Separation Applications Shunsuke Tanaka, Kansai University, Japan
Lunch Break 13:10-14:00 @ Restaurant	
14:00-14:30	Title: Poly[bis(4-Phenyl)(2,4,6-Trimethylphenyl)Amine-based Perovskite Solar Cells with high Efficiency and Long-term Stability Li Yang, University of Macau, China
14:30-15:00	Title: Fabrication of Practical Nanomaterial Processing for Sustainable Development Goals (SDGs) Yamato Hayashi, Tohoku University, Japan
15:00-15:30	Title: Immobilization of N-doped Carbon Porous Networks containing Copper Nanoparticles on Carbon felt Fibers for Industrial Catalytic Application Mehran Ghiaci, Isfahan University of Technology, Iran
15:30-16:00	Title: Novel Green Solvents: Engineering Applications Inas Nashef, Khalifa University, UAE
16:15-16:45	Title: Are Graduates in the Technical Fields Equipped with Job Ready Skills? Maurice Danaher, Zayed University, United Arab Emirates
Refreshments Break 16:45-17:00 @ Foyer	
End of the Conference	

Bookmark Your Dates

5th Global Conference and Expo on

Applied Science, Engineering and Technology

October 12-13, 2020 | Lisbon, Portugal

&

8th Global Congress and Expo on

Materials Science and Nanoscience

October 22-23, 2020 | Porto, Portugal