

190th Conference
Scientific Federation



Renaissance Kuala Lumpur Hotel Corner Of Jalan
Sultan Ismail And, Jalan Ampang, Kampung
Baru, 50450 Kuala Lumpur, Federal Territory of
Kuala Lumpur, Malaysia

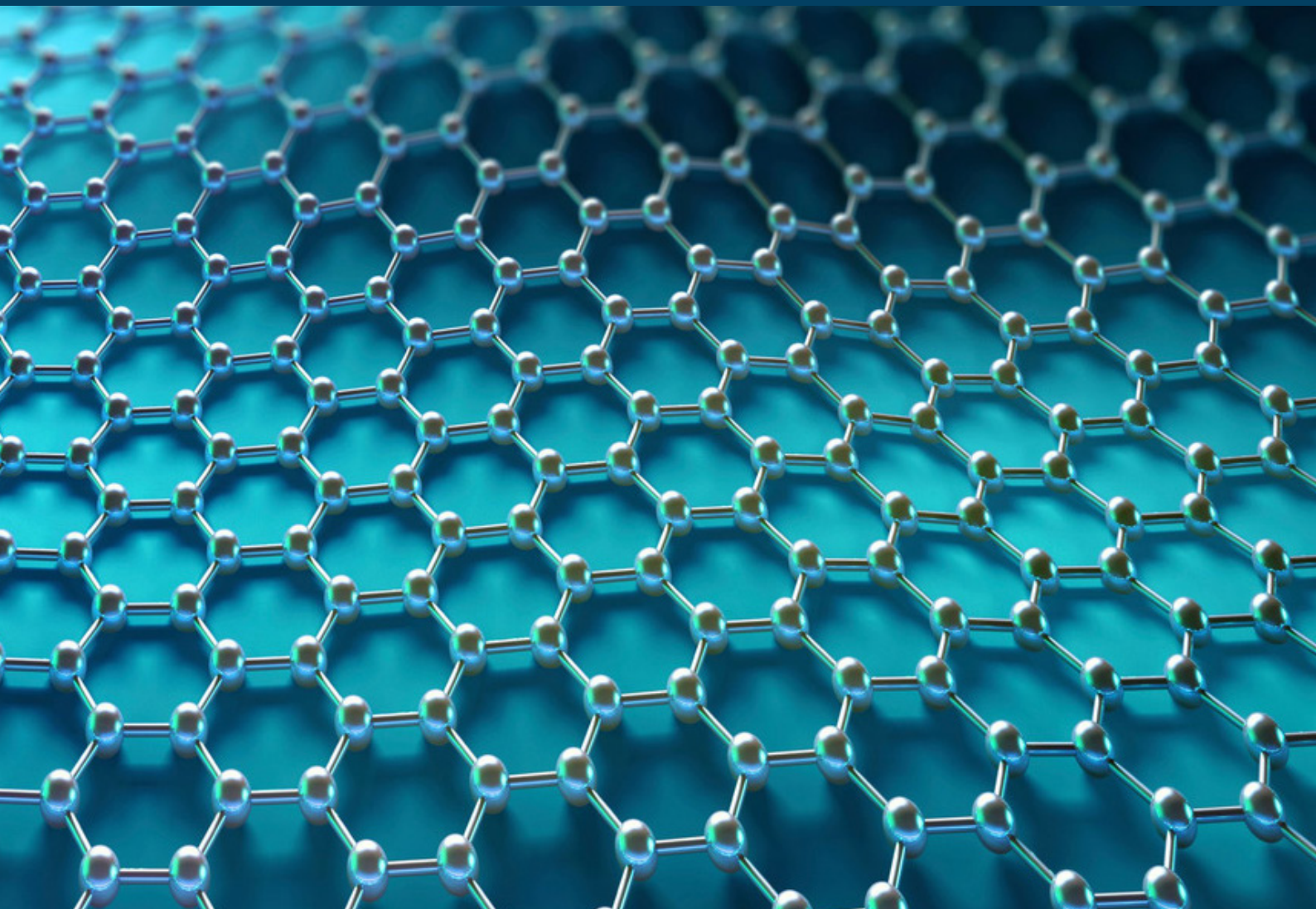


Scientific Program

7th Global

Nanotechnology Congress and Expo

December 02-04, 2019 | Kuala Lumpur, Malaysia



Scientific Federation

Panjagutta, Hyderabad, Telangana-500082, India

Day 1 December 02, 2019

Arcade-5

- 09:30-09:45 Registrations
09:45-10:00 Introduction & Opening Words

Conference Chair Werner J. Blau, Trinity College Dublin, Ireland
Conference Co-chair Gabor Patonay, Georgia State University, United States of America

Plenary Forum

- 10:00-10:40 **Title: Two- Dimensional Nanosheets for Applications in Photonics, Optoelectronics and Renewable Energy**
Werner J. Blau, Trinity College Dublin, Ireland
- 10:40-11:20 **Title: Laser-Combined STM and its Applications: New Microscopy Techniques for Nanoscale Science**
Hidemi Shigekawa, University of Tsukuba, Japan

Refreshments Break 11:20-11:35 @ Foyer

- 11:35-12:15 **Title: Synthesis of Multimetallic Subnanoparticles based on Atomhybridization**
Kimihsa Yamamoto, Tokyo Institute of Technology, Japan

Keynote Forum

- 12:15-12:50 **Title: Magnesium Alloys as Biodegradable Implants Materials Tested in Different Physiological Media**
Lucien Veleva, CINVESTAV-IPN, Mexico

12:50-13:00

Group Photo

Lunch Break 13:00-14:00 @ Restaurant

- 14:00-14:35 **Title: The Influence of the Severe Plastic Deformation on Phase Transformations in Ti15Mo Alloy**
Milos Janecek, Charles University, Czech Republic
- 14:35-15:10 **Title: Surface-Enhanced Raman Scattering Properties of Silver Colloidal Particles Deposited on Various Types of Substrates**
Ichiro Tanahashi, Osaka Institute of Technology, Japan

Oral Talks

Sessions Nanoelectronics | Materials Science and Engineering |
Materials Science-Fundamentals & Characterization

Session Chair Milos Janecek, Charles University, Czech Republic

- 15:10-15:35 **Title: Functional Self-Assembled Monolayer as Charge Trapping Sites for the Construction of Multi-bit Organic Transistor Memory Devices**
Yu-Tai Tao, Academia Sinica, Taiwan
- 15:35-16:00 **Title: Investigation of the Temperature Effect of Deformation, Rheological Behavior and Structural Transformation of the Cu-0.6Cr Alloy under the Conditions of SPD**
Aksenov Denis Alekseevich, Ufa State Aviation Technical University, Russian Federation

Refreshments Break 16:00-16:15 @ Foyer

- 16:15-16:40 **Title: Multi-Cycle Processing of long Workpieces by Continuous Bending in Free and Constrained Conditions**
Asfandiyarov Rashid Nailevich, Ufa State Aviation Technical University, Russian Federation
- 16:40-17:05 **Title: Synthesis of Few-Layer Graphene using Atmospheric Pressure Plasma**
Mineo Hiramatsu, Meijo University, Japan
- 17:05-17:30 **Title: Low-Temperature Formation of High-Mobility in GaZnOx Thin-Film Transistors by Plasma-Enhanced Reactive Processes**
Yuichi Setsuhara, Osaka University, Japan

17:30-17:55 **Title: Optical Metamaterials with Tunable Optical Responses Fabricated by Nanofabrication Technology**

Yuto Moritake, Tokyo Institute of Technology, Japan

Panel Discussion

Closing the Conference for the Day 1

Day 2 December 03, 2019

Arcade-5

Plenary Forum

10:00-10:40 **Title: Pin-Point Analysis of Local Electronic Structures in Field Effect Transistors by Photoelectron Nano-Spectroscopy**

Masaharu Oshima, University of Tokyo, Japan

Keynote Forum

10:40-11:15 **Title: Computational Experiments on the Step and Frequency Responses of a Three-Axis Thermal Accelerometer, and Application to Measurement of Multiple Physical Quantities**

Yoshifumi Ogami, Ritsumeikan University, Japan

Refreshments Break 11:15-11:30 @ Foyer

11:30-12:05 **Title: Gold Nanoparticles in the Laser Treatment of Port Wine Stain: Challenging and Application**

Bin Chen, Xi'an Jiaotong University, China

12:05-12:40 **Title: Nanoscale Characterization and Mathematical Modeling of Sand Particles using Synchrotron Micro-Tomography**

Jianfeng Jeff Wang, City University of Hong Kong, Hong Kong

12:40-13:15 **Title: Wastewater Recovery and Reuse as a New Water Resource Alternative in Developing Countries**

Mohd Omar Fatehah, Universiti Sains Malaysia, Malaysia

Lunch Break 13:15-14:15 @ Restaurant

14:15-14:50 **Title: Ultrahigh-Sensitivity Detection of Molecules by Surface-Enhanced Raman Scattering on Two Dimensional Layered Materials**

Huizhen Wu, Zhejiang University, China

Oral Talks

Sessions
Nanowires
Nanostructures

Session Chair **Jianfeng Jeff Wang, City University of Hong Kong, Hong Kong**

14:50-15:15 **Title: Computational ab-Initio investigation of Multifunctional Properties of A-side Substitution in Multiferroic BiFeO₃ Nanomaterials**

Muhamad Kamil Bin Yaakob, Universiti Teknologi MARA, Malaysia

15:15-15:40 **Title: Nanowire based Solar Cells**

Magnus Tarlé Borgström, Lund University, Sweden

15:40-16:05 **Title: Grinding Structures and Existing Properties in the Conditions of Gradient Accumulation of Large Deformations in Metallic Materials**

Raab Arseniy.G, Ufa State Aviation Technical University, Russian Federation

Refreshments Break 16:05-16:20 @ Foyer

Poster Presentations

P-001 **Title: Ultrafine-Grained Metastable Ti15Mo Alloy Prepared by the Powder Metallurgy Technique of Spark Plasma Sintering**

Anna Veverková, Charles University, Czech Republic

P-002 **Title: Effect of Gold Nanoparticles on Proliferation and Redox State of Selected Cell Lines**

Dvorakova Monika, Comenius University, Slovakia

- P-003** **Title: Effects of Superparamagnetic Iron Oxide Nanoparticles and Acute Stress on Oxidative Stress in Wistar-Kyoto Rats and Spontaneously Hypertensive Rats**
Lucia Laubertova, Comenius University, Slovakia
- P-004** **Title: Synthesis of Copper/Cellulose Nanocomposites for Antibacterial Assay**
Nadiyah Saad Alahmadi, University of Jeddah, Saudi Arabia
- P-005** **Title: Preparation of Iron Oxide Mesoporous Magnetic Microparticles as Novel Multidrug Carriers for Synergistic Anticancer Therapy and Deep Tumor Penetration**
Kheireddine El-Boubbou, King Saud bin Abdulaziz University, Saudi Arabia
- P-006** **Title: The Application of Two-dimensional GaTe in the Field of SERS**
Pengqi Lu, Zhejiang Univeristy, China

Closing the Conference for the Day 2

Day 3 December 04, 2019

Arcade-5

Plenary Forum

- 10:00-10:40** **Title: Sensor-Reporter Copolymerized Silica Nanoparticles: A Small Analytical Lab in a Small Space**
Gabor Patonay, Georgia State University, United States of America

Oral Talks

- Sessions** **Quantum dots | Nanosensing in diagnostics and industry | Nanophotonics and Optics | Graphene Technologies | Nanotechnology applications in: Energy, Oil, and Gas**
- Session Chair** **Gabor Patonay, Georgia State University, United States of America**

- 10:40-11:05** **Title: Light Emission from Multiple Stack Si/Ge Quantum Dots**
Seiichi Miyazaki, Nagoya University, Japan
- 11:05-11:30** **Title: Nanogravimetric Sensors: From Groundwater Monitoring on Nuclear Sites to Lung Cancer Diagnosis**
Fabrice P.L. Andrieux, Lancaster University, United Kingdom

Refreshments Break 11:30-11:45 @ Foyer

- 11:45-12:10** **Title: Ultrathin Graphitic Carbon Nitride Nanosheets -Supported Pt Nanoflowers as a Highly Active Electrocatalyst for Determination of Hydrogen Peroxide**
Hamed Tavakkoli, Shiraz University, Iran
- 12:10-12:35** **Title: Tuning the Electronic Structure of Transition Metal Dichalcogenides by Molecular Engineering**
Daisuke Kiriya, Osaka Prefecture University, Japan
- 12:35-13:00** **Title: Development of Complex Hydrides for FastIonic Conduction**
Motoaki Matsuo, Kwansei Gakuin University, Japan

End of the Conference

Bookmark Your Dates

10th Global

Nanotechnology Congress and Expo

November 23-24, 2020 | Frankfurt, Germany