

26<sup>th</sup> International Conference on  
**ADVANCED NANOSCIENCE  
AND NANOTECHNOLOGY**

December 05-06, 2022 | Dubai, UAE

## AGENDA

Monday, Dec 05, 2022 | Day 1

Conference Hall: Meeting Room 8

Opening Ceremony | 09:00 -09:15

### Keynote Forum

9:15-10:00

Title: Artificial Intelligence (AI) in biomedical engineering

**Hossein Hosseinkhani** | Innovation Center for Advanced Technology | USA

10:00-10:45

Title: Nanotechnology and cardiovascular diseases

**Omer Iqbal** | Loyola University Stritch School of Medicine | USA

**Group Photo | Networking & Refreshment Break 10:45-10:55 @ Foyer**

10:55-11:40

Title: Dendrimer delivery of phenolic compounds to tumour-associated macrophages to improve anti-metastatic efficacy and reduce toxicity in metastatic cancer

**Rikesh Shah** | Rikesh's Remedies Corporation | United Kingdom

11:40-12: 25

Title: Nanotech skin coating

**Christina Rahm** | The Root Brands LLC | USA

### Panel Discussion

**Session: Nanoscience and Nanotechnology | Nanomaterials and Nanomedicine | Materials Science and Engineering**



**Session Chair: Omer Iqbal** | Loyola University Stritch School of Medicine | USA

12:25-12:55 Title: Chaotic-hierarchical computation from neural processing using superconducting qubits (SQ) reveals coherent magnetic nanomaterials

**Luis Manzo** | Ankh Tech | Mexico

12:55-13:25 Title: Developing sustainable materials and solutions for the construction industry using graphene

**Tarcizo Cruz** | Gerdau Graphene | Brazil

13:25-13:55 Title: Water soluble electrolyzed silicon dioxide

**Christina Rahm** | The Root Brands LLC | USA

**Lunch Break 13:55-14:40 @ Red Daimond Restaurant**

**Session: Nanotechnology in Energy and Environment | Nanobiotechnology and Nanotoxicology | Pharmaceutical Nanotechnology**



**Session Chair:** Hossein Hosseinkhani | Innovation Center for Advanced Technology | USA

- 14:40-15:10 Title: Band-gap engineering in semiconducting nanomaterials: current progress and future prospective in opto electronic applications  
**Anju Anna Jacob** | Emirates Aviation University | United Arab Emirates
- 15:10-15:40 Title: Novel biocompatible and biodegradable hybrid polymer nanosystems for treatment of deeply located tumors  
**Tatiana E Sukhanova** | Lebedev Institute of Synthetic Rubber | Russia
- 15:40-16:10 Title: Novel application of quantum dots for encryption of samples during clinical trials  
**J E Rachel Nivedita** | Bharat Institute of Technology | India

**Networking & Refreshment Break 16:10-16:25 @ Foyer**

- 16:25-16:55 Title: Role of thermal radiation, viscous dissipation, slip boundaries, and double-diffusivity convection on MHD flow of Williamson nanofluid through an asymmetric channel  
**Safia Akram** | National University of Sciences and Technology | Pakistan
- 16:55-17:25 Title: Capacitive de-ionization with graphene-based electrodes for lead removal  
**Anissa Auoni** | Centre for Water Research and Technologies | Tunisia

**Poster Forum (17:25-18:15)**

- PP01 Title: Polymer-ceramic nanocomposite for energy storage applications  
**Micheline Bejjani** | American University in Dubai | United Arab Emirates
- PP02 Title: Flexible eco-friendly piezoelectric nanogenerator based on BTO NWs and PVDF composite  
**Snehamoyee Hazra** | S. N. Bose National Centre for Basic Sciences | India
- PP03 Title: Development of a novel mathematical model to characterize nano particulate dispersion systems  
**Anu Vrat Sharma** | Bharat Institute of Technology | India
- PP04 Title: Novel application of quantum dots in precise estimation of drug distribution in excipient matrix  
**Namratha Sunkara** | Bharat Institute of Technology | India
- PP 05 Title: Zn-based additives for the biodegradability of anodized magnesium AZ31 alloy using electrochemical treatment strategies  
**Zeeshan Ur Rehman** | Changwon National University | Republic of Korea

## Certificates and Award Presentations

### Thanks Giving & Closing Ceremony

Tuesday, December 06, 2022 | Day 2

Gathering/Introduction | 09:00-09:15

#### Keynote Forum

09:15-09:45

Title: Shape reversibility and thermo mechanical reactions in memory behavior of shape memory alloys

**Osman Adiguzel** | Firat University | Turkey

09:45-10:15

Title: Application of nanoparticles in horticultural biotechnology of ornamental plants

**Dariusz Kulus** | Bydgoszcz University of Science and Technology | Poland

10:15-10:45

Title: Fatigue behaviour of friction stir additive manufactured aluminium alloy AA2219

**Dhanesh G Mohan** | Harbin Institute of Technology | China

#### Networking & Refreshment Break 10:45-11:00

11:00-11:30

Title: Nanoemulsion concept for water-poor soluble anti-cancer drugs to improve therapeutic benefit

**Bhupendra G Prajapati** | Ganpat University | India

11:30-12:00

Title: PLGA-based nanostructures at biological interfaces: current status and prospects

**Juhi Saxena** | Chandigarh University | India

#### Panel Discussion

**Session:** Nanoengineering and Nanofabrication | Nanoelectronics and Nanoplasmonics | Additive Manufacturing | Biomaterials and Tissue engineering



**Session Chair:** Christina Rahm | The Root Brands LLC | USA

12:00-12:20

Title: Alcohol metabolism accelerating composition

**Christina Rahm** | The Root Brands LLC | USA

12:20-12:40 Title: The physiochemical effects on hydrocarbons in a subterranean formation  
**Len Bland** | Nano Gas Environmental | USA

12:40-13:00 Title: Design and application of multifunctional stimuli-responsive systems for sensing and diagnostic  
**Helena luele** | CNR NANOTEC Institute of Nanotechnology | Italy

**Lunch Break 13:00-13:45**

**Panel Discussion**

**Session: Smart Materials | Carbon Nanotubes and Nanoparticles | Nanochemistry and Nanotribology | Nanotechnology in Dermatology**



**Session Chair:** Osman Adiguzel | Firat University | Turkey

13:45-14:05 Title: Biochemical composition & method and support for cognitive function  
**Christina Rahm** | The Root Brands LLC | USA

14:05-14:25 Title: Green nano photocatalysts and their immobilization for easy recovery and enhanced photocatalytic activity  
**Seema Garg** | Amity University | India

14:25-14:45 Title: Detection of genotoxicity of green synthesized silver, gold, and silver/gold bimetallic in human blood lymphocytes using comet assay  
**Naila Sher** | University of Science and Technology | Pakistan

14:45-15:05 Title: Redox-active lithium metal-organic-frameworks as electrode material for high performance battery applications  
**Umer Aziz** | GIK Institute of Engineering Sciences and Technology | Pakistan

15:05-15:25 Title: Preparation of a dynamically vulcanized nanocomposite thermoplastic based on PLA/NR and cellulose nanocrystal (CNC)  
**Negin Haghghat Naeini** | AmirKabir University | Iran

15:25-15:45 Title: Application of green synthesized silver nanoparticles to control cotton insects  
**Heba Alshater** | Menoufia University | Egypt

**Networking & Refreshment Break 15:45-16:00**

16:00-16:20 Title: The optical properties of individual silver nanoparticles in Ag/Ag<sub>2</sub>O composites synthesized by oxygen plasma treatment of silver thin films  
**Kamal Kayed** | Damascus University | Syria

16:20-16:40 Title: The use of green nano hydrogen as fuel and its effect

**Abdelsalam Abuzreda** | University of Benghazi | Libya

16:40-17:00 Title: Toxicity of iron oxide nanoparticles, on antioxidant enzymes and free radicals in male rats

**Abdelsalam Abuzreda** | University of Benghazi | Libya

17:00-17:20 Title: Carbon based materials for future application in nanotechnology

**Habtamu Fekadu Etefa** | Dambi Dollo University | Ethiopia

17:20-17:40 Title: New carbon quantum dot (PQC) synthesis method

**Godwe Moise** | University of Maroua | Cameroon

### Panel Discussion

### Poster Forum (17:40-18:00)

PP01 Title: Synthesis of green copper nanoparticles: potential application in wound infections

**Limberg Jaldin-Crespo** | Universidad del Desarrollo | Chile

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### Thanks Giving & Closing Ceremony

