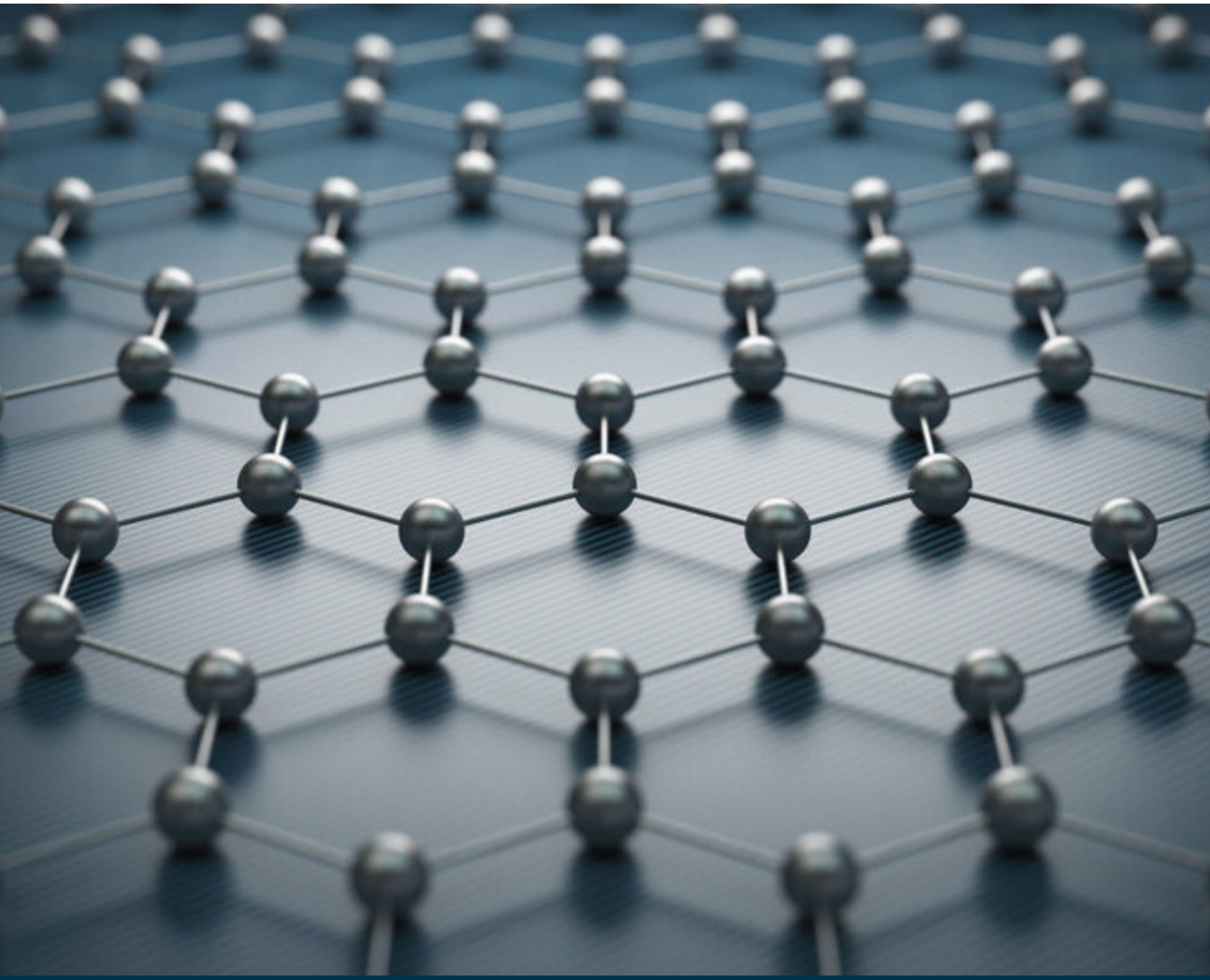
SCIENTIFIC PROGRAM



Theme: Modern Advancement Excellence in Materials Science and Nanotechnology

7th International Conference on

MATERIALS SCIENCE AND NANOTECHNOLOGY

December 05-06, 2022 | Dubai, UAE

https://materialsscience.pulsusconference.com/

AGENDA

Wednesday | December 05 2022 | Day 1

09:00-09:10 - Opening Ceremony

KEYNOTE FORUM

09:10-09:55	**Title: Porous Catalytic Structures for High Efficiency Water Electrolysis at Higher Loads to meet Future Energy Demands** **Dr. Bhavanari Mallikarjun** | National Central University | Taiwan
09:55-10:40	**Title: Structural characterization of the 3D printed ceramic composite materials** **Dr. Saja M Nabat Al-Ajrash** | University of Dayton | USA
10:40-11:25	**Title: A framework for powder evaluation in laser powder bed fusion additive manufacturing** **Chinmay Phutela** | United Arab Emirates

Networking & Refreshment Break 11:25-11:40

Plenary Sessions

Sessions on: Materials Science and Engineering | Smart Materials | Tissue Engineering | Biomaterials

Session Chair: Milan K. Sadan | Gyeongsang National University | United Kingdom

11:40-12:00	**Title: Effect of Silica as Flow Enhancing Additive on AM Processability and Build of Gas Atomised IN718 Alloy Powder** **Dr.Joseph Oluleke** | Specialist Materials Manager | United Kingdom
12:00-12:20	**Title: Structural, optoelectronic and thermoelectric properties of Ca-based antiperovskites Ca3BN (B=As, Bi, P and Sb) compounds: Insights from DFT** **Dr Bendjilali Hadjer** |University of Sidi Bel-Abbes | Algeria
12:20-12:40	**Title: Nanocomposite based piezoelectric energy harvesting for selfpowered sensors** **Dr. Ipsita Chinya** | Dr. V. R. Godhania College of Engineering & Technology | India
12:40-13:00	**Title: Envision Bionic Life in the Digitized World using Cyborg Technology** **Dr. Sowmya Khan** | University of Central | UAE

Lunch Break 13:00:14:00

Sessions on: Nanomedicine | Nanomaterials Science and Metrology | Carbon Nanotubes and Biomolecules

Session Chair: Venkat Sharma | William Paterson University | Wayne

14:00-14:20	**Title: Quantum initial condition sampling for linearized density matrix dynamics: Vibrational pure dephasing of iodine in krypton matrices** **Zhonghua Ma** |Boston University | United States

14:20-14:40	**Title: High energy storage properties for BiMg0.5Ti0.5O3-modified KNN ceramics under low electric fields** **Zhonghua Dai** | Boston University | China
14:40-15:00	**Title: Lead-free functional ceramics for dielectric energy storage capacitors** **Zhilun Lu** | Edinburgh Napier University | United Kingdom
15:00-15:20	**Title: Design, Simulation, and 3D-Manufacturing of Lattice Structures for Patient-Specific Trabecular Implants** **Fatemeh Zarei** |Shiraz University |Iran

Speaker Session Slots are available

Young Researcher Forum

17:20-17:40	**Title: Photoinduced Magnetization of the Cyano-Bridged 3d–4f Heterobimetallic Assembly Nd(DMF)4(H2O)3(μ-CN)Fe(CN)5·H2O (DMF = N,N-Dimethylformamide)** **Guangming Li**| Heilongjiang University| China

Young Researcher Forum Slots are available

Poster Presentation

PP 01	**Title: Synthesis, crystal structures and electronic properties of Schiff base nickel (II) complexes: Towards solvatochromism induced by a photochromic solute** **Takashiro Akitsu** | Keio University |Japan
PP 02	**Title: New ON Schiff bases and their homoleptic Zn, Ni, and Cu complexes - Synthesis, structural characterization and DNA binding studies** **Satheesh** | Science of Nanotechnology University | India

Poster Slots are available

Video Presentation

VP 01	**Title: Photofunctional supramolecular solution systems of chiral Schiff base nickel(II), copper(II), and zinc(II) complexes and photochromic azobenzenes** **Moaz M. Abdou** | Egyptian Petroleum Research Institute | Egypt
VP 02	**Title: Syntheses, crystal structures and electronic properties of a series of copper(II) complexes with 3,5-halogen-substituted Schiff base ligands and their solutions** **Beta Yasuaki Einaga** | University of USA | USA

Video Slots are available

Thanks Giving & Closing Ceremony

Day 2 Slots are available

** The program schedule is subject to change**