

# Scientific Program

36<sup>th</sup> International Conference on  
**Nanomaterials and  
Nanotechnology**

&

24<sup>th</sup> World Congress on  
**Materials Science and  
Engineering**

&

24<sup>th</sup> European Toxicology  
**and Applied Pharmacology**

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February 15, 2023 | Webinar

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\*\*\*Sessions will be hosted in GMT+1 (UK Timings)\*\*\*

## Opening Ceremony

### Keynote Forum

09:15-09:30 Introduction

09:30-10:10 **Title: Improving water barrier and mechanical properties of epoxy with nanoclays**  
Necar Merah, King Fahd University of Petroleum and Minerals, Saudi Arabia

10:10-10:50 **Title: An effective approach to reduce the penetration potential of sars-cov-2 and other viruses by spike protein: Through surface particle electrostatic charge negotiation**  
Sudip Chatterjee, Regent Education and Research Foundation, India

10:50-11:30 **Title: Nano science and nano technology research using ion beams, lasers and gamma radiations**  
Anand P Pathak, University of Hyderabad, India

**Sessions:** Nanoparticles | Nano Electronic Devices | Advanced Nanomaterial's | Nanotechnology Applications | Nanomaterials Safety and Regulations | Nanoscale Materials | Applications of Nanomaterials | Nanotech Products | Nano Devices and Systems | Materials Science and Engineering | Biomaterials and Medical Devices | Ceramics and Composite Materials | Physics and Chemistry of Materials | Graphene and 2D Materials | Advanced Nanomaterials - production, Synthesis and Processing | Toxicology | Pharmacology | Toxicology and Risk Assessment | Pharmacological Testing | Biochemical and Molecular Toxicology

11:30-12:00 **Title: Human nanomedicine: Nanomaterials in the clinic**  
Thomas J. Webster, Hebei University of Technology, China

12:00-12:30 **Title: Applications of quality by design approach in nanotechnology**  
Mohamed Abbas Ibrahim, King Saud University, Saudi Arabia

12:30-13:00 **Title: Coupled exciton- surface plasmon polariton enhanced photoresponse of 2D hydrogenated SiB**  
Farzaneh Shayeganfar, Amirkabir University of Technology, Iran

Lunck Break @ 13:30-13:50

13:50-14:20 **Title: Toxic impacts of SARS-CoV-2 variants and anti-viral potential effects in hospitalized patients in Duhok Province-Kurdistan Region**  
Ghazwan Ahmed M. Raouf, Università degli Studi della Tuscia-Viterbo, Italy

14:20-14:50 **Title: Nanomaterials for agriculture**  
Siddhartha S. Mukhopadhyay, Punjab Agricultural University, India



14:50-15:20 **Title: Electronic structure calculation of graphene by formulating a relativistic tight-binding approximation model**  
Rohin Sharna, Kathmandu University, India



15:20-15:50 **Title: Process intensification and optimization for sonocrystallisation of uranium peroxide**  
Shrishma Paik, Bhabha Atomic Research Centre, India

**Poster Presentations @ 15:50-16:30**

Poster-01 **Title: Analysis of deaths caused by wheat pill poisoning in divisional headquarters teaching hospital Mirpur Azad Kashmir from October 2019 - October 2022**  
Qurat-ul-ain Ayub, Hospital Mirpur AJK, Pakistan

Poster-02 **Title: Positively charged nanoplastics inhibit *Bacillus subtilis* planktonic and biofilm formation**  
Franklin Perez, University of Toronto, Canada

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**Awards & Closing Ceremony**

