



ScitechSeries

FINAL PROGRAM

GLOBAL EVENT ON
MATERIAL SCIENCE AND ENGINEERING

&

WORLD CONGRESS ON
NANOTECHNOLOGY

OCT 30-31
BER 2024

**Virtual
Event**

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WEDNESDAY OCTOBER 30

(Virtual)

Greenwich Mean Time (GMT) @ Zoom Meetings

08:00-08:30

Registrations & AV check

Moderator

Carmela Bonavolonta
CNR ISASI, Italy

08:30-09:00

Opening Ceremony and Introduction

GMT

Local Timings

KEYNOTE PRESENTATIONS

09:00-09:40

11:00-11:40

Title: Iron oxide magnetic nanoparticles, Fe₃O₄ or Fe₂O₃, radiolabeled with ⁶⁸Ga and ^{99m}Tc as dual modality contrast agents in diagnostic imaging techniques
Dimosthenis Stamopoulos, National and Kapodistrian University of Athens, Greece

09:40-10:20

11:40-12:20

Title: What can we expect from application of resonant light scattering by nanoobjects?
Michael I Tribelsky, Lomonosov Moscow State University, Russia

10:20-11:00

14:50-15:30

Title: Examine the effects of Acacia Caesia Bark Fibers on various properties of epoxy composites
Sivasubramanian Palanisamy, PTR College of Engineering and Technology, India

11:00-11:40

18:00-18:40

Title: Overview of reconfigurable antennas Inspired by electronically tunable materials
Nasimuddin, Institute for Infocomm Research, Singapore

ORAL PRESENTATIONS

11:40-12:00

16:10-16:30

Title: Multifunctional Nanostructured Materials; A new dimension in Materials Science
Sujit Kumar Bandyopadhyay, Variable Energy Cyclotron Centre, India

12:00-12:20

14:00-14:20

Title: Pickering emulsions stabilized by Shellac-Based nanoparticles
Keren Delmar, Technion- Israel Institute of Technology, Israel

12:20-12:40

13:20-13:40

Title: Zinc-Iron magnetic nanoparticles for tumor theranostics
Carlos Caro, University of Malaga, Spain

12:40-13:00

13:40-14:00

Title: Investigation of graphene single layer on P-type and N-type Silicon heterojunction photodetectors
Carmela Bonavolonta, CNR ISASI, Italy

13:00-13:20

14:20-14:40

Title: Release and in-depth characterisation of β -carotene nanocarriers in simulated gastrointestinal fluids for oral delivery
Roman Mmanda Fortunatus, Adolphe Merkle Institute, Switzerland

13:20-13:40

13:20-13:40

Title: Electrochemical cycling stability of Zr, Nb and Mo Doped Lithium Nickel Oxide (LNO) Cathodes for libs
Misbah Mumtaz, University of Sheffield, UK

13:40-14:00

18:10-18:30

Title: Wearable technology in health care engineering
Sunita Mehta, Chitkara University, India

14:00-14:20

16:00-16:20

Title: Biodegradation of microplastics namely polystyrene, polyester polyurethane, and polyethylene with metal organic framework based UiO-66-OH@MF-3 Nanocomposite
Delia Teresa Sponza, Dokuz Eylul University, Turkey

POSTER PRESENTATIONS

14:20-14:30

15:20-15:30

Title: Mechanical recycling of 3D printing Nanocomposites: Repurposing PLA waste loaded with ceramic particles for sustainable agricultural films
Marina Patricia Arrieta Dillon, Valencia Polytechnic University, Spain

14:30-14:40

15:30-15:40

Title: Lipophilic molecular rotor to assess the viscosity of oil core in Nano-Emulsion droplets
Mohamed Elhassan, French National Institute of Health and Medical Research, France

KEYNOTE PRESENTATIONS

14:40-15:20

18:40-19:20

Title: Unique development of Cu-Ionic treated TiO₂ for U.V. and Visible light active photocatalysts
Saima Kousar, Institute of Space Technology, Pakistan

15:20-16:00

11:20-12:00

Title: Modulating magnetic behavior of ultrafine ferrite nanoparticles by surface-coating thickness
Paulo Cesar De Morais, Catholic University of Brasilia, Brazil

16:00-16:40

11:00-11:40

Title: The Impact of Nanomedicine: 30,000 Orthopedic nano implants with no failures and still counting
Thomas Webster, Hebei University of Technology, USA

*** End Of Day 01

THURSDAY OCTOBER 31

(Virtual)

Greenwich Mean Time (GMT) @ Zoom Meetings

08:00-08:30

AV Check

Moderator

Misbah Mumtaz

University of Sheffield, UK

08:30-09:00

Opening Ceremony and Introduction

GMT

Local Timings

KEYNOTE PRESENTATIONS

09:00-09:40

11:00-11:40

Title: Highly tunable Pickering emulsion/polymer Systems: From colloids to functional surfaces

Guy Mechrez, Volcani Institute, Israel

09:40-10:20

16:40-17:20

Title: Development on the cancer therapeutic drug delivery systems based on mesoporous nano silica

Shiguo Sun, Northwest A&F University, China

10:20-11:00

18:20-19:00

Title: Electrochemical control and quantification of carrier density of π -Conjugated polymers

Ichiro Imae, Hiroshima University, Japan

11:00-11:40

15:30-16:10

Title: Nanocrystal: A novel approach to overcome skin barriers for improved topical drug delivery

Viral Patel, Ramanbhai Patel College of Pharmacy, India

11:40-12:20

13:40-14:30

Title: Shape reversibility and the role of deformation temperature in memory behavior of shape memory alloys

Osman Adiguzel, Firat University, Turkey

12:20-13:00

08:20-09:00

Title: Cell viability assays under radiofrequency application and challenged by nano-materials

Paulo Cesar De Moraes, Catholic University of Brasilia, Brazil

ORAL PRESENTATIONS

13:00-13:20

17:30-17:50

Title: Elicitation of E-waste (acrylonitrile-butadiene styrene) enriched soil bioremediation and detoxification using *Priestia aryabhattai* MGP1

Moumita Chakraborty, G. B. Pant University of Agriculture & Technology, India

13:20-13:40

17:50-18:00

Title: Photogalvanic insolation device for accumulation, conversion & utilization solar radiation through photoimgeable dyes Fast green – Toludine blue – EDTA

Bijendra Singh, Central University of Gujarat, India

13:40-14:00

17:40-18:00

Title: Formulation and in vitro Evaluation of pH-Sensitive Cross-linked Copolymer for Controlled Delivery of Perindopril Erbumine (PE)

Hira Ijaz, Fachhochschule: Institute Of Applied Science And Technology, Pakistan

14:00-14:20

16:00-16:20

Title: On the electromagnetic interactions of Dirac and Weyl particles

Georgios Tsigaridas, National Technical University of Athens, Greece

14:20-14:40

16:20-16:40

Title: Peculiarities of cluster structure and unique properties of supercooling water and monohydric alcohols

Valeriy Pogorelov, Kyiv National Taras Shevchenko University, Ukraine

14:40-15:00

16:40-17:00

Title: A computational study on the affinity assessment of Self-Assembling dipeptides with the anticancer Peptide-Drug bortezomib
Anastassia Rissanou, Theoretical & Physical Chemistry Institute, Greece

15:00-15:20

15:00-15:20

Title: The Impact of Microplastics on the Environment and Health: Reduction and Remediation Approaches
Hind Abdellaoui, Mohammed VI Polytechnic University, Morocco

15:20-15:40

17:20-17:40

Title: Removal of gentamicin and diclofenac by magnetic iron oxide activated carbon derived from paper Industry Waste via Adsorption
Delia Teresa Sponza, Dokuz Eylul University, Turkey

POSTER PRESENTATIONS

15:40-16:00

16:40-17:00

Title: Cocoa shell Waste-Derived nanoparticles for enhanced biodegradable film
Maria Dolores Samper, Valencia Polytechnic University, Spain

Important Note:

- The Conference follows Greenwich Mean Time (GMT) for all sessions.
- Sometimes there may be small changes in the program due to technical problems or presenters not showing up. To avoid missing any presentations, all presenters are asked to be available for the entire day of their presentation.
- When the program refers to Local Timings, it means that the timing mentioned is based on the time zone of the presenter's country.

*** Closing Ceremony ***



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