

3rd International Conference on

Advanced Nanomaterials and Nanotechnology

October 10-11, 2024
London, UK

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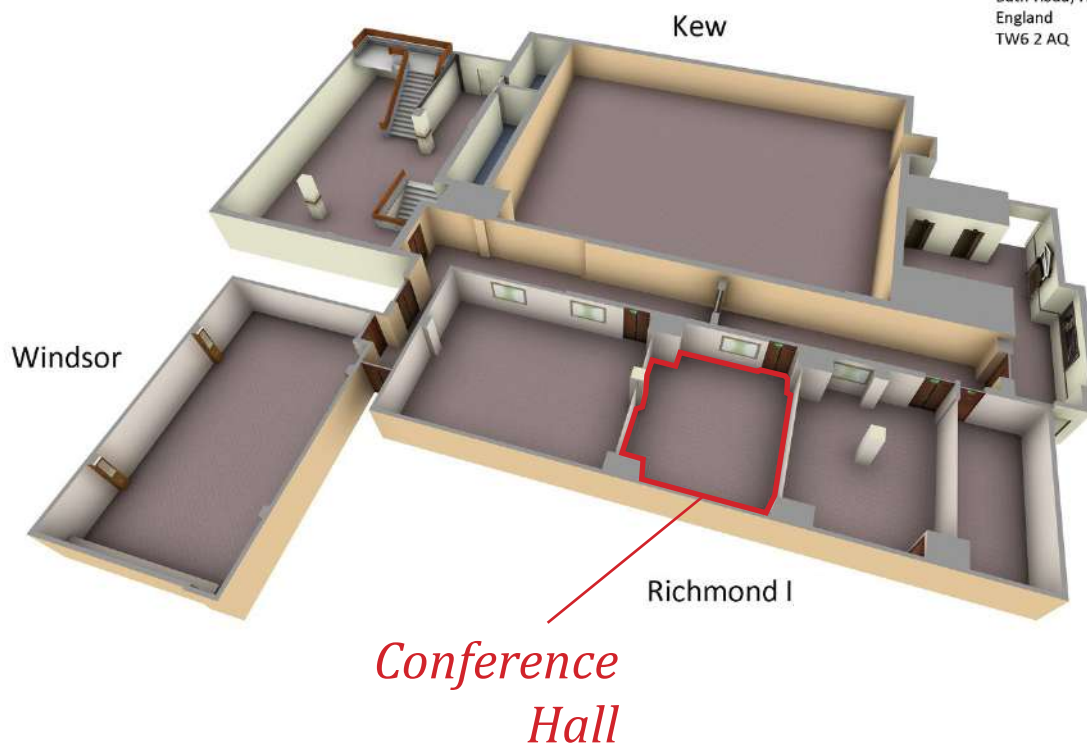
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Floor Map

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Wifi Details

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Conference Programme

Conference Programme

Day 1, October 10, 2024

Meeting hall: Richmond Suite I

08.00 - 08.45 Registrations

08.45 - 09.00 Introduction

Keynote Presentations

9.00 - 9.40 Jyh-Chiang Jiang, National Taiwan University of Science and Technology, Taiwan

Title: Studying the Reactions of PEO-Based Solid Polymer Electrolytes on the Electrodes: A Combined DFT and AIMD Calculations

9.40 - 10.20 Liliana Rubio, PMO Polymer Business Intelligence, Brazil

Title: Micro Knitting Yarn Biocomposites (Metallic Fiber, Organic Fiber and Biodegradable Resin) for the Smart Textile Market

Networking and Refreshments @ York Lobby : 10.20 - 10.40

10.40 - 11.20 Rachana, Jaypee Institute of Information Technology, India

Title: Nanoliposomal Drug Delivery System for Respiratory Disorders

Oral Presentations

Session Chair: Visileanu Emilia, The National Research and Development Institute for Textiles and Leather, Romania

Session Chair: Valeri Ligatchev, Singapore

Session Chair: Jyh-Chiang Jiang, National Taiwan University of Science and Technology, Taiwan

Sessions: Nanomaterials and Nanotechnology | Applications of Nanotechnology | Nanophotonics, Nanocomposite | Nanoparticles & Molecular Nanotechnology | Nano Physics & Nano Chemistry | Pharmaceutical Nanotechnology | Green nanotechnology | Nanoparticles & Molecular Nanotechnology | Lipid Nanotechnology

11.20 - 11.45 Visileanu Emilia, The National Research and Development Institute for Textiles and Leather, Romania

Title: The Influence of the Concentration of Plastic Particles in the Air on the Level of Cytokines

11.45 - 12.10	Hiroyuki Aoki, High Energy Accelerator Research Organization, Japan
Title: Polymer Nano-Particle for <i>in vivo</i> Photo-Acoustic Imaging	
12.10 - 12.35	Manfred Eich, Hamburg University of Technology, Germany
Title: Nanomaterial Systems for Metamaterial Based Selective Thermophotovoltaic Emitters	
12.35 - 13.00	Mohammed Al-Ghamdi, King Abdulaziz University, Saudi Arabia
Title: The influence of Cavity Length on Electrical Properties of InAsP/AlGaInP Quantum Dots Laser Diodes	
Group Photo: 13.00 - 13.15	
Lunch @ Market Garden Restaurant: 13.15 - 14.00	
14.00 - 14.25	Neus Ferrer-Miralles, Autonomous University of Barcelona, Spain
Title: Protein-Based Nanomaterials as a Versatile Platform for Engaging with Biological Systems	
14.25 - 14.50	Deepak Kumar, Indian Institute of Technology, India
Title: Development of Core-Shell (Si@TiO ₂) Structured Nanoparticles Reinforced Nano-Composite Anode for Li-Ion Battery	
14.50 - 15.15	Cléa Chesneau, Institute of Chemistry and Materials Paris-Est, UPEC, France
Title: Dextran Derivative Coating on Cerium Oxide Particles and Drug Loading for Biological Purpose	
15.15 - 15.40	Valeri Ligatchev, Singapore
Title: Harmonic and Anharmonic Lattice Thermal Capacity of Nano-Structured Solids Evaluated Based on 3D GSM and Q-Deformed Oscillator Models	
15.40 - 16.05	Rachana, Jaypee Institute of Information Technology, India
Title: Nanogels Drug Delivery System for Various Applications	
Networking and Refreshments @York Lobby : 16.05- 16.30	
16.30 - 16.55	Amal Mayyas, American University of Madaba, Jordan
Title: Development of Gallic Acid and Quercetin Co-Loaded Nanoliposomes for Improved Anticancer Treatment	
Day 1 Concludes followed by Certificate Felicitation	

Day 2, October 11, 2024

Meeting hall: Richmond Suite I

Keynote Presentations

9.00 - 9.40 Dimitrios A. Lamprou, Queen's University Belfast, UK

Title: Microfluidic Technologies in Nanomedicine Formulation and Diagnostics

9.40 - 10.20 Jacek Siódmiak, Bydgoszcz University of Science and Technology, Poland

Title: The Essential Role of Resonance Bonds in Modeling Nanoparticles and Their Properties

Networking and Refreshments @York Lobby : 10.20- 10.40

10.40 - 11.20 John Zhou, University of Technology Sydney, Australia

Title: Green Synthesis of Different Nanomaterials for Sustainable Water Treatment

Poster Presentations

PP001

Cléa Chesneau, Institute of Chemistry and Materials Paris-Est, UPEC, France

Title: Easy Way for Fabricating Porous Carriers for Controlled Drug Delivery: Focus on The Loading of Hydrosoluble and Hydrophobic Cargoes

PP002

Marcos Jose Jacinto, Federal University Of Mato Grosso, Brazil

Title: Eco-Friendly Nanostructured Superparamagnetic Photocatalyst $\text{Fe}_3\text{O}_4@ \text{TiO}_2$ -Cu Synthesized with Plant Extracts for Efficient Degradation of Dyes

PP003

Marisa Koci, University of Tirana, Albania

Title: Extraction of pinus halepensis essential oil and characterization by IR and UV-vis spectroscopy

Oral Presentations

Session Chair: Mohammed Al-Ghamdi, King Abdulaziz University, Saudi Arabia

Session Chair: Jacek Siódmiak, Bydgoszcz University of Science and Technology, Poland

Sessions: Nanomaterials and Nanotechnology | Graphene and Fullerenes | Green nanotechnology | Nanoparticles & Molecular Nanotechnology | Nanophotonics, Nanomedicine & Drug Delivery | Pharmaceutical Nanotechnology | Lipid Nanotechnology | Material Science and Engineering

12.00 - 12.25	Mohammed Al-Ghamdi, King Abdulaziz University, Saudi Arabia
Title: Effect of Indium Concentration on the Threshold Current Density in InGaAs/GaAs QD Laser Diodes	
12.25 - 12.50	Muhammad Noman, Zhejiang Academy of Agricultural Sciences, China Temoor Ahmed, Xianghu Laboratory, China
Title: Nano-Enabled Approaches for Sustainable Crop Protection	
Lunch @ Market Garden Restaurant:: 12.50 - 14.00	
14.00 - 14.25	Noor Alrushaid, Imam Abdulrahman Bin Faisal University, Universite Claude Bernard Lyon1, ISA, Saudi Arabia
Title: Anticancer for Colon Cancer by Encapsulation of Curcumin in BSA Nanoparticles via Nanoprecipitation	
Video Presentations	
VP001	Farah Al-Sahlawi, UCSI University, Malaysia
Title: Preparation and Characterization of Raloxifene and Rutin Loaded Chitosan Nanoparticles for the Treatment of Cancer	
VP002	Tabarak R. AL-Sammarraie, Al-Ahliyya Amman University, Jordan
Title: Synthesis of Silver Nanoparticles Loaded with Nicotiana Glauca Extract: Characterization and Evaluation of Their Antibacterial and Cytotoxicity Effect	
VP003	Sina Matalqah, Al-Ahliyya Amman University, Jordan
Title: Biosynthesis of Silver Nanoparticles using Aqueous Extract of Ivy Leaf: Characterization and Evaluation Their Antimicrobial And Cytotoxic Activity	
VP004	Tabarek Mahmood, Ibn Sina University of Medical and Pharmaceutical sciences, Iraq
Title: Development of Pegylated Nano-Phytosome Formulation with Oleuropein and Rutin to Compare Anti-Colonic Cancer Activity with Olea Europaea Leaves Extract	
Keynote Video Presentations	
VP005	Siti Hasnah Kamarudin, Universiti Teknologi MARA, Malaysia
Title: Hybrid Natural Fiber Reinforced Composites: A Paradigm Shift Towards Circular Economy Strategies in Advanced Nanomaterials	
Day 2 Concludes followed by Panel Discussion - Awards & Closing Ceremony	

Virtual Programme

Day 1- October 10 , 2024 British Summer Time (BST)

10.00-10.10 **Introduction**

Keynote Presentations

10.10 - 10.40 **Changlong Wang, Beijing University of Technology, China**

Title: Design of Transition Metal-Based Materials for Waste Upcycling and Hydrogen Generation

10.40 - 11.10 **Humaira Yasmin, King Faisal University, Saudi Arabia**

Title: Thermal Analysis of the Water-Based Micropolar Hybrid Nanofluid Flow Comprising Diamond and Copper Nanomaterials Past an Extending Surface

11.10 - 11.40 **Paulo De Moraes, Catholic University of Brasilia, Brazil**

Title: New Nano-Photosensitizing Agents Emerging from Carbon Allotrope

Oral Presentations

11.40 - 12.00 **Francesca Lionetto, University of Salento, Italy**

Title: Adsorption Behavior of Antibiotics on PET Microplastics

12.00 - 12.20 **Alicja Stanislawska, Gdansk University of Technology, Poland**

Title: The Impact of *in situ* and *ex situ* Modifications of Bacterial Nanocellulose (BNC) on Its Mechanical Properties and Structure

12.20 - 12.40 **Victor G. Mairanowski, Scientific Society WiGB, Berlin, Germany**

Title: Complex Study the Electrode-Solution Region: Molecular and Collective Properties

12.40 - 13.00 **Karolina Zabska, Gdansk University of Technology, Poland**

Title: Effect of Silver Nanoparticles on Mechanical and Biological Properties of Bacterial Nanocellulose

Break: 13.00 - 13.30

13.30 - 13.50 **Saumya Vaish, Manav Rachna university, India**

Title: Trends in Perovskite Solar Cells

13.50 - 14.10	Pranjal Gujarathi, Vidhyadeep university, Bhagwan Mahavir University, India
Title: Preclinical Techniques for Drug Discovery in Psoriasis	
14.10 - 14.30	Mahmoud Youssif, AGH University of Krakow, Poland
Title: Adsorption Performance of Amino-Functionalized Magnetic Fe ₂ O ₃ /SiO ₂ Nanocomposite for Effective Removal of Mercury Ions from Aqueous Solution	
14.30 - 14.50	Nandis Mahely Fiallos Maravil, Universidad del Bío-Bío, Chile
Title: One-Pot Green Synthesis of Fluorescent Quantum Carbon Dots from Avocado Peels and Evaluation of its Antimicrobial Properties	
Day 1 Concludes	

Day 2, October 11, 2024 British Summer Time (BST)

Keynote Presentations

10.00 - 10.30 **Tokeer Ahmad , Jamia Millia Islamia, India**

Title: Advanced Nanomaterials Based Heterogeneous Catalysis for Sustainable Green Energy

10.30 - 11.00 **Bernd Blobel, University of Regensburg, Germany**

Title: Designing and Managing Integration and Interoperability of Intelligent and Ethical Ecosystems

11.00 - 11.30 **Afshin Abrishamkar, National Research Council of Canada, Canada**

Title: Let's Go Small in Both Material and Technology to Unveil Various High-Impact Applications

11.30 - 12.00 **Siti Hasnah Kamarudin, Universiti Teknologi MARA, Malaysia**

Title: Hybrid Natural Fiber Reinforced Composites: A Paradigm Shift Towards Circular Economy Strategies in Advanced Nanomaterials

Oral presentations

12.00 - 12.20 **Farah Al-Sahlawi, UCSI University, Malaysia**

Title: Preparation and Characterization of Raloxifene and Rutin Loaded Chitosan Nanoparticles for the Treatment of Cancer

12.20 - 12.40 **Tabarak Al-Sammarraie, Al-Ahilyya Amman University, Jordan**

Title: Synthesis of Silver Nanoparticles Loaded with Nicotiana Glauca Extract: Characterization and Evaluation of Their Antibacterial and Cytotoxicity Effect

Poster Presentations

PP001

Jeevandeep Mishra, Medi-Caps University, Faculty of Pharmacy Indore, India

Title: Advanced Nanomaterial Integrated 3D Printing Technology in Pharmaceutical Manufacturing and its Applications

PP002

Neha Agarwal, Central Drug Research Institute, India

Title: Design And Characterization of Oral Nano Lipid Carrier to Combat Triple-Negative Breast Cancer Using Drug Synergy

PP003

Ashutosh Gupta, Manipal College of Pharmaceutical Sciences, India

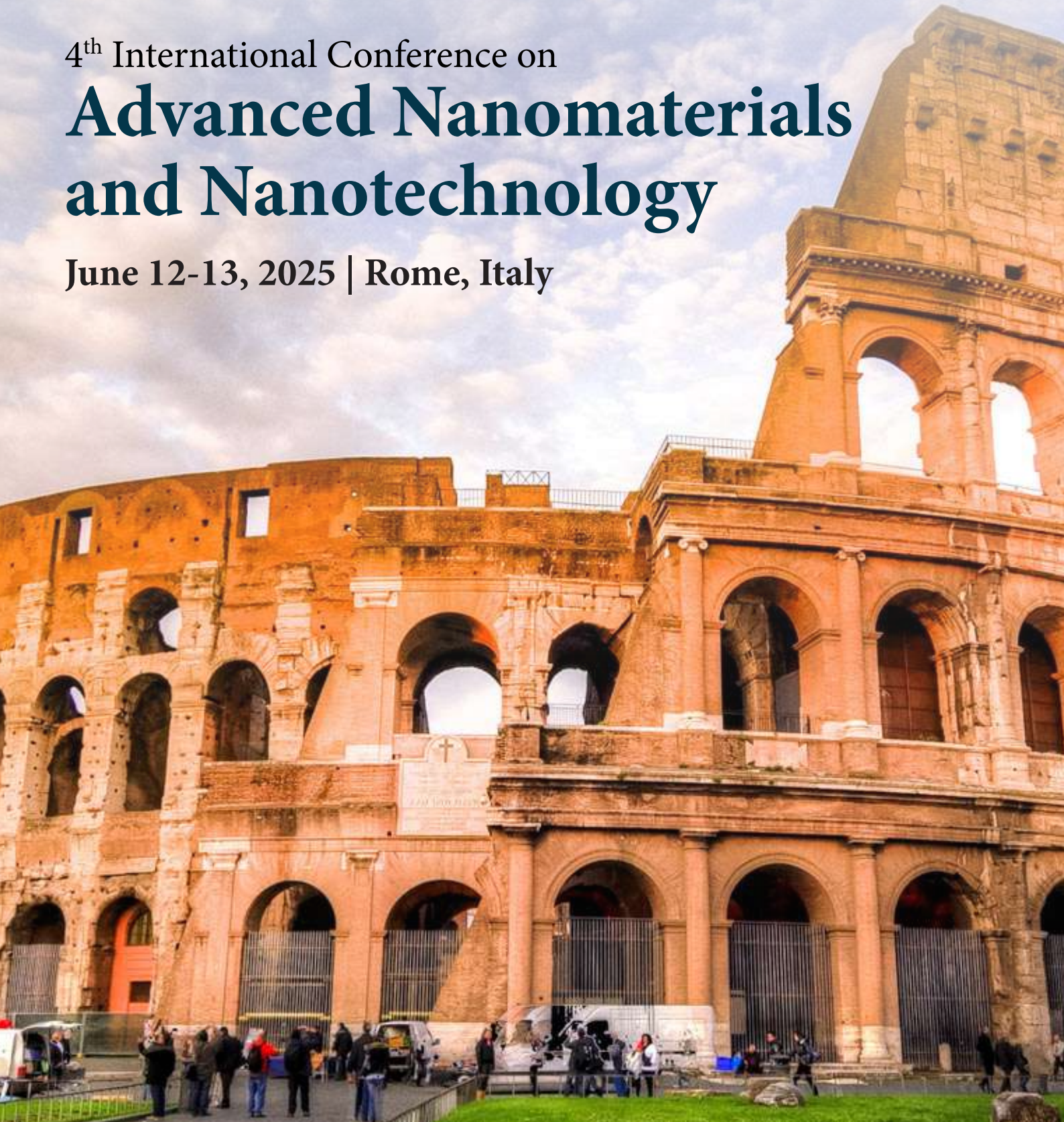
Title: Tinidazole Loaded Novel Nano-Emulsion for The Eradication of H. Pylori Infection

Day 2 Concludes followed by Vote of Thanks

Bookmark The Date

4th International Conference on
**Advanced Nanomaterials
and Nanotechnology**

June 12-13, 2025 | Rome, Italy



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