

9<sup>th</sup> European Congress on

# Advanced Nanotechnology and Nanomaterials

Day 1 June 24, 2024

Meetings Hall: Rembrandt 5

8.00 - 8.45 Registration

8.45 - 9.00 Introduction

## Keynote Presentations

9.00 - 9.40 Enzymatically Sequestering and Degrading PET Micro and Nanoplastics using LipasePolydopamine-Magnetic Nanoparticles

**Henrique Eisi Toma**, Universidade de São Paulo, Brazil

9.40 - 10.20 Fabrication of Fluorescent-Entities Doped Polymer Optical Fibers for Solar Concentrators

**Nekane Guarrotxena**, Spanish National Research Council, Spain

## Sponsor Presentation

10.20 - 10.50 Femtosecond Laser-Induced Selective Etching of Transparent Materials: From Glasses to Crystals

**Agne Butkute-Eidiete**, Fentika Ltd, Lithuania

Networks & Refreshments 10.50 - 11.15 @ Pre Function Area

## Oral Presentations

Chair **Nekane Guarrotxena**, Spanish National Research Council, Spain

Co- Chair **Ananta R. Adhikari**, State University of New York, USA

**Sessions:** Nanotech: In other fields | Nanocharacterization and Nanomanufacturing | Nanomaterials and Nanoparticles | Material Science | Nano Polymers, Nanotubes and Nano Porous Materials | Advanced Bio-Materials & Bio-devices

11.15 - 11.45 Nanostructured Urea as a Tool for Nitrogen use Efficiency Improvement in Common Wheat (*Triticum Aestivum* L.) Germplasm

**Primož Titan**, University of Maribor, Slovenia

11.45 - 12.15 Nano1D: An Accurate Computer Vision Software for Analysis and Segmentation of Low-Dimensional Nanostructures

**Ehsan Moradpur Tari**, University of Tartu, Estonia

12.15 - 12.45 Fabrication of Novel Nanosized BaCo<sub>3</sub> and Their Promising NO<sub>2</sub> Sensing Properties

**Nada A. Al-Taisan**, King Faisal University, Saudi Arabia

Group Photo 12:45 - 13:00

Lunch 13:00 - 14:00 @ Restaurant

14.00 - 14.30 Detecting Fentanyl Analogs in Counterfeit Pharmaceuticals by Surface-Enhanced Raman Spectrometry using Handheld Raman Spectrometers

**Sevde Dogruer Erkok**, Florida International University, USA

14.30 - 15.00 Study of Facile Synthesis of Nanostructured Potassium Incorporated Titanium Oxide Film by WCP and Their Application to Enhance the High-Performance Photocatalytic Activity for Water Purification

**So Yoon Lee**, Shibaura Institute of Technology, Japan

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## **Advanced Nanotechnology and Nanomaterials**

15.00 - 15.30	Modification of Polymer Composite Based on Electromagnetic Radiation <b>Ananta R. Adhikari</b> , State University of New York, USA
15.30 - 16.00	Synthesis of Oriented Lyotropic Liquid Crystal Phases via Temperature Gradient Method <b>Nisrin Alnaim</b> , King Faisal University, Saudi Arabia
Networks & Refreshments 16:00 - 16.30 @ Pre Function Area	
16.30 - 17.00	Development of a New And Innovative Electrochemical Sensor for 5-HMF in Foodstuff <b>Bernardo Patella</b> , University of Palermo, Italy
17.00 - 17.30	The Influence of Atmospheric Plasma Spray (APS) Parameters on The <i>in vitro</i> Biological Performance of Radiopaque Bioactive Glass Coatings: A Doe Approach <b>Germán Andrés Clavijo Mejía</b> , FunGlass - Centre for Functional and Surface Functionalized Glass, Slovakia

Day 1 Concludes followed by Award Ceremony

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# Advanced Nanotechnology and Nanomaterials

Day 2 June 25, 2024

Meetings Hall: Rembrandt 5

Keynote Presentations

10.00 - 10.40	Sparking a Revolution in Catalysis by Mixing Anything with Anything <b>Andreas Schmidt-Ott</b> , Delft University of Technology, Netherlands
10.40 - 11.20	CuO Photocathode Enhancement through Ultra-Thin Carbon Coating Layer for Photoelectrochemical Water Splitting <b>Jae Hak Jung</b> , Yeungnam University, South Korea
11.20 - 12.00	Combining Surface-Enhanced Raman Spectroscopy (SERS) and Paper Spray Mass Spectroscopy (PS-MS) for Illicit Drug Detection <b>Sevde Dogruer Erkok</b> , Florida International University, USA

Networks & Refreshments 12.00 - 12.30 @ Pre Function Area

Oral Presentations

Chair	<b>Henrique E. Toma</b> , Universidade de São Paulo, Brazil
Co- Chair	<b>Jae Hak Jung</b> , Yeungnam University, South Korea

**Sessions:** Nanocharacterization and Nanomanufacturing | Nanotechnology and Nanomaterials | Nanosafety and Nanotoxicology | Polymer Nanotechnology | Nanotech: In other fields | Nanotech for Energy and Environment | Advanced Materials and Applications | Advanced Bio-Materials & Bio-devices

12:30 - 13:00	Synthesis of Tungsten-Doped TiO <sub>2</sub> Nanopowders Prepared by Pulsed-laser Decomposition of Liquid TTIP <b>Mustafa Mozael</b> , Loyola Marymount University, USA
13.00 - 13.30	New Hybrids Based Functionalized Cellulose Nanofibers <b>Moulay Ahmed Said Azizi Samir</b> , Université Grenoble Alpes, France

Lunch 13:30 - 14:30 @ Restaurant

14:30 - 15:00	Triboelectric Nanogenerators (Tengs) Based on Surface Modulation and Innovative Materials <b>Claudio Leonardi</b> , University of Rome, Italy
15:00 - 15:30	The Effect of the Nanoemulsion of 1,8 Cineole on <i>Rhyzopertha Dominica</i> (F. 1792) (Coleoptera: Bostrichi-Dae) <b>Abes Ibtissem Fatma Zahra</b> , Echahid Cheikh Larbi Tebessi University, Algeria
15:30 - 16:00	Development of Paper Based Fluorescent Mips Sensor for Rapid Detection of Lumpy Skin Disease Virus (LSDV) <b>Samr Kassem</b> , Animal Health Research Institute, Egypt
16.00 - 16.30	Microemulsions of Mentha Spicata Essential Oil and Its Major Component as Highly Effective Insecticides Against Species with Economic and Medical Interests <b>Meriem Soltani</b> , Echahid Cheikh Larbi Tebessi University, Algeria

Networks & Refreshments 16.30 - 17.00 @ Pre Function Area

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## Poster Presentations

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| PP-01 | Nanocelluloses for CO <sub>2</sub> Capture: Effect of Amino Loading on Reversible Adsorption for Greenhouse Gas Storage and Concentration<br><b>Fabio Valdebenito</b> , Universidad Católica de la Santísima Concepción, Chile |
| PP-02 | Enhancing Carbon Microfiber Electrode Properties through Covalent Chemical Modification for Spinal Cord Injury Applications<br><b>Myriam Barrejón</b> , University of Castilla La-Mancha, Spain                                |
| PP-03 | Development of Protein-Only Photocurable Resin for 3D Printing<br><b>Ayelet Bunin</b> , The Hebrew University of Jerusalem, Israel   |

## Video Presentations

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| VP-01 | Development of a Artificial Intelligence Dental Anxiety Scale (AI -CDAS ) for Children : Validation and Reliability<br><b>Krishna V.Patil</b> , Dental College and Hospital, India |
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Day 2 Concludes followed by Vote of Thanks & Awards Ceremony