

# NANOMAT22

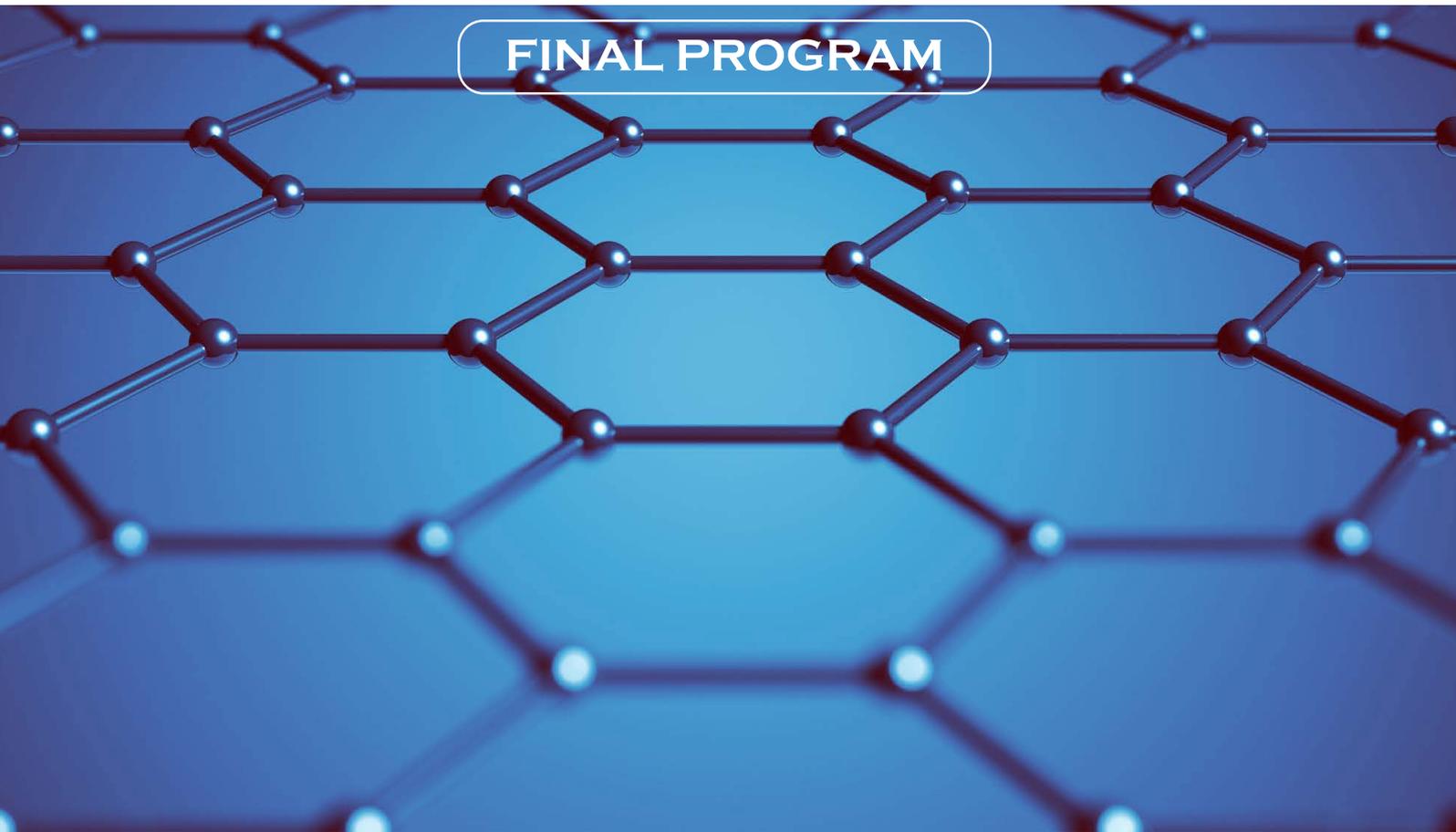
Global Summit on Nanomaterials: Applications and Properties

**March 23-25, 2022**

**Dubai, UAE**

**Crowne Plaza Dubai Jumeirah, Al Mina St - Al Hudaiba - Dubai -  
United Arab Emirates**

**FINAL PROGRAM**



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## WEDNESDAY MARCH 23, 2022

Meeting Room: HIX Jumeirah

09:00-09:15 Registrations

Conference Chair: **Kremena Makasheva, University of Toulouse, France**

09:15-09:30 Opening Ceremony

09:30-10:10 Title: Composite Biomaterials Based on Polymers, Carbon Nanotubes Glyconanoparticles and Enzymes for Energy Conversion or Sensor Design **P**  
**Serge Cosnier**, University Grenoble Alpes, France

10:10-10:50 Title: Novel PCL and PLA Copolymers with Enhanced Hydrolysis Rates for Sustained and Targeting Release Formulations of Anticancer Drugs **P**  
**Dimitrios Bikiaris**, Aristotle University of Thessaloniki, Greece

10:50-11:30 Title: Functionalities of Silver Nanoparticles – how many and where to apply? **P**  
**Kremena Makasheva**, University of Toulouse, France

11:30-11:45 Coffee Break

11:45-12:25 Title: Technologies for Precision Medicine **P**  
**Giuseppe Gigli**, University of Salento, Italy

12:25-13:05 Title: Spider Silks and their Nanostructures **P**  
**Jinlian Hu**, City University of Hong Kong, Hong Kong

13:05-13:10 Group Photo

13:10-14:00 Lunch Break

14:00-14:30 Title: Electron Transport in Discontinuous Metal Thin Films **K**  
**James Morris**, Portland State University, USA

14:30-15:00 Title: 2D Complex Structures for Future Energy Conversion and Storage Systems **K**  
**Amin Salehi**, University of Illinois at Chicago, USA

15:00-15:30 Title: 2D Materials-based Mixed-Dimensional Heterostructures and Device Applications **K**  
**Suk-Ho Choi**, Kyung Hee University, South Korea

15:30-15:45 Coffee Break

15:45-16:25 Title: Intelligent Materials & Systems **P**  
**Seeram Ramakrishna**, National University of Singapore, Singapore

16:25-16:50 Title: Radio-wave Activated Chemotherapy **I**  
**Benjamin White**, University of Oxford, UK

16:50-17:15 Title: Centrifugal Spinning of Nanofibers: Materials, Properties and Applications **I**  
**Jan Macak**, University of Pardubice, Czech Republic

17:15-17:40 Title: Nanomaterials in Biomedical Applications **I**  
**Turibius Simon**, Malankara Catholic College, India

<b>17:40-18:05</b>	Title: Self-assembly of Carbohydrate Block Copolymers: Thin films and GlycoNanoparticles <b>Redouane Borsali</b> , University Grenoble Alpes, France	
<b>18:05-18:30</b>	Title: Tough, Stretchable, and Self Healable Adhesive Elastomers for Rugged Soft Robots <b>Thangavel Gurunathan</b> , Nanyang Technological University, Singapore	

### End of Day 1

## THURSDAY MARCH 24, 2022

<b>10:00-10:30</b>	Title: Advanced Functional Materials for Biomedical Implants <b>Julietta V. Rau</b> , Institute of the Structure of Matter of the Italian National Research Council, Italy	<b>K</b>
<b>Session 1</b>	<b>Nanomaterials &amp; 2D Materials</b>	
<b>10:30-10:55</b>	Title: Observation of Shear Transformation Zones in Metallic Glasses <b>Christian Kubel</b> , Karlsruhe Institute of Technology, Germany	
<b>10:55-11:20</b>	Title: Silver Nanowires: from Large Scale Production to the Fabrication of Transparent Flexible Film Heaters for Real Life Applications <b>JP Simonato</b> , University Grenoble Alpes, France	
<b>11:20-11:35</b>	<b>Coffee Break</b>	
<b>11:35-12:00</b>	Title: High-Quality 2D Films Growth Methods for Large-Area Integrated Circuits <b>Xiangming Xu</b> , King Abdullah University of Science and Technology, Saudi Arabia	
<b>12:00-12:25</b>	Title: Physical and Chemical Activation of Graphene-Based Nanomaterials for Carbon Dioxide Capture <b>Rabita Mohd Firdaus</b> , University of Lorraine, France	
<b>12:25-12:50</b>	Title: Key Role of Hydration in the Bactericidal Activity of Mg <sub>1-x</sub> Cu <sub>x</sub> O Nanoparticles in Water <b>Gwenael Corbel</b> , IMMM - Institute of Molecules and Materials of Le Mans, France	
<b>12:50-13:15</b>	Title: Carbon Dioxide Reduction Technologies Through Advanced Conversion and Utilization <b>Kishor Kumar Sadasivuni</b> , Center for Advanced Materials, Qatar University, Qatar	
<b>13:15-14:00</b>	<b>Lunch Break</b>	

### Posters Presentation

<b>P-001</b>	Title: The Development of an Immunoassay for the Detection of Cardiac Troponin-I Based on Calcein-Loaded Nanocarriers <b>Remya Radha</b> , American University of Sharjah, UAE
<b>P-002</b>	Title: Synthesis Of PPR-GF Composites With Enhanced Coefficient Of Linear Thermal Expansion <b>Nikolaos Bikiaris</b> , Aristotle University of Thessaloniki, Greece

<b>P-003</b>	Title: The Effect of Nanoclays Addition on The Structural and Thermal Properties of Polypropylene Random Copolymer <b>Eleftheria Xanthopoulou</b> , Aristotle University of Thessaloniki, Greece
<b>P-004</b>	Title: Biocompatible Aliphatic Polyesters based on Succinic Acid for Long Acting Injectables of Paliperidone Palmitate <b>Rizos Bikiaris</b> , Aristotle University of Thessaloniki, Greece
<b>P-005</b>	Title: Activated Carbons Derived from Low-cost Biomass (orange peels) for the Removal of Non-Steroidal Anti-Inflammatory Drugs from Aqueous Media <b>Dimitra Lambropoulou</b> , Aristotle University of Thessaloniki, Greece
<b>P-006</b>	Title: Synthesis of Thermosensitive Hydrogels for 3D printing Fabrication of Wound Healing Dressings <b>Ioanna Koumentakou</b> , Aristotle University of Thessaloniki, Greece
<b>P-007</b>	Title: Preparation Of PLGA Microparticles Via Spray-Drying For The Sustained Delivery Of Two MAPK Inhibitors <b>Evangelia Balla</b> , Aristotle University of Thessaloniki, Greece
<b>P-008</b>	Title: Exploring The Potential For Biobased Adhesives: Development Of Unsaturated Polyester Resins Based On Adipic Acid <b>Lazaros Papadopoulos</b> , Aristotle University of Thessaloniki, Greece
<b>P-009</b>	Title: Polyolefines under UV-B exposure: From physicochemical changes to microplasticsâ€™ formation <b>Nina Maria Ainali</b> , Aristotle University of Thessaloniki, Greece
<b>P-010</b>	Title: Biomass From Olive-Tree Byproducts Extraction And Characterization For Sustainable Wood-Based Panels <b>Georgia Michailidou</b> , Aristotle University of Thessaloniki, Greece
<b>P-011</b>	Title: Polymer-based Immobilized TiO <sub>2</sub> /PET Catalyst for the Degradation of Propranolol: Kinetic Studies and Identification of Transformation Products <b>Androniki Rapti</b> , Aristotle University of Thessaloniki, Greece
<b>P-012</b>	Title: Study of Recycled HDPE for Eco-Friendly Wood/Plastic Composite Products <b>Nina Maria Ainali</b> , Aristotle University of Thessaloniki, Greece
<b>P-013</b>	Title: Rheological Study of Modified with Vanillin Chitosan Blends and their Application in 3D printing <b>Georgia Michailidou</b> , Aristotle University of Thessaloniki, Greece
<b>P-014</b>	Title: Bimetallic Nanocatalysts From A Structural Point of View: PDF Insights <b>Pierre Lecante</b> , CEMES-CNRS, France
<b>P-015</b>	Title: Dual Functional Theranostic Nanoparticles for Rhabdomyosarcoma Gene Therapies and Real-Time Evaluation of Therapeutic Effects <b>Chengchen Duan</b> , University of Oxford , UK

**End of Day 2**

**March 25, 2022**

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**Virtual Participations**

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**London Time Zone (GMT)**

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<b>09:00-09:40</b>	Title: Graphene Oxide: New Opportunities for Photonics, Electronics, and Optoelectronics <b>David Moss</b> , Swinburne University of Technology, Australia	<b>P</b>
<b>09:40-10:20</b>	Title: Nanomaterial Design and Innovation for Energy Electrocatalysis <b>Shizhang Qiao</b> , The University of Adelaide, Australia	<b>P</b>
<b>10:20-11:00</b>	Title: Intelligent Materials & Systems <b>Seeram Ramakrishna</b> , National University of Singapore, Singapore	<b>P</b>
<b>11:00-11:30</b>	Title: Optical Metamaterials for Applications in Nanolasers and Spectral-reshaping <b>Ehab Awad</b> , King Saud University, Saudi Arabia	<b>K</b>
<b>11:30-11:55</b>	Title: High-Quality 2D Films Growth Methods for Large-Area Integrated Circuits <b>Xiangming Xu</b> , King Abdullah University of Science and Technology, Saudi Arabia	<b>I</b>
<b>11:55-12:25</b>	Title: Carbon Nanotube-Based Flexible Electronics <b>Youfan Hu</b> , Peking University, China	<b>K</b>
<b>12:25-12:50</b>	Title: Fast and Selective Ion Transport in Microporous Crystalline Framework Channels <b>Xingya Li</b> , University of Science and Technology of China, China	<b>I</b>
<b>12:50-13:20</b>	Title: Nanoporous Materials: Synthesis and Application Studies of Aerogels <b>Hyung-Ho Park</b> , Yonsei University, Korea	<b>K</b>
<b>13:20-13:45</b>	Title: Characterization of Single Layer Graphene Oxide Film on Au/Mica Substrate <b>Dima Cheskis</b> , Ariel University, Israel	<b>I</b>
<b>13:45-14:25</b>	Title: Making the Hospital a Safer Place by the Sonochemical Coating of all its Textiles with Antibacterial and Antiviral Nanoparticles <b>Aharon Gedanken</b> , Bar-Ilan University, Israel	<b>P</b>
<b>14:25-14:50</b>	Title: Chemical Sensing with Graphene: A Quantum Field Theory Perspective <b>Enrique Munoz</b> , Pontificia Universidad Católica de Chile, Chile	<b>I</b>
<b>14:50-15:15</b>	Title: The Protein Corona of Nanoparticles for the Early Detection and Staging of Pancreatic Cancer <b>Luca Digiacomo</b> , Sapienza University of Rome, Italy	<b>I</b>
<b>15:15-15:45</b>	Title: Engineering Photoelectrochemical and Photocatalytic Materials for Solar Fuels <b>Eslava Salvador</b> , Imperial College London, UK	<b>K</b>

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<b>15:45-16:10</b>	Title: Nano-medicine for Cartilage Repair and Regenerative Medicine <b>Dongan Wang</b> , City University of Hong Kong, Hong Kong	<b>I</b>
<b>16:10-16:35</b>	Title: Layered graphene defeats capacity's limitation of Li-ion batteries <b>Tereza Paronyan</b> , Hexalayer LLC, USA	<b>I</b>
<b>16:35-17:00</b>	Title: Atomistic Determination of Anisotropic Point Defect Strain Fields to Drive Mesoscale Grain Boundary Evolution <b>Benjamin Beeler</b> , North Carolina State University, USA	<b>I</b>
<b>17:00-17:40</b>	Title: Computing for Materials Prediction: from Syntheses to Properties <b>Boris I. Yakobson</b> , Rice University, USA	<b>P</b>

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# NANOMAT2023

2<sup>nd</sup> Global Summit on Nanomaterials: Applications and Properties

**March 20-22, 2023 | Rome, Italy**

