



**NanoMat-2023**

September 25-27 2023 | Webinar

International Conference on

# Nanotechnology & Materials Science

**Webinar | September 25-27, 2023**

## Final Program



**XPERTS MEETINGS**

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For more Info Plz Visit Website:

<https://xpertsmeetings.org/nanomat23/>

## 08:50-09:00 Opening Ceremony

## Plenary & Keynote Session

### Conference Chair: Prof. Sergey V. Suchkov, MD, PhD

- 09:00-09:30 **Personalized and Precision Medicine (PPM) as a Unique Healthcare Model to Be Set Up via Biodesign, Bio- and Chemical Engineering, Translational Applications, and Upgraded Business Modeling to Secure the Human Healthcare and Biosafety**  
**Sergey Suchkov**, Institute for Biotech & Global Health of RosBioTech and A.I. Evdokimov MGMSU, Russia
- 09:30-10:00 **Boron Nitride Based Nanostructured Materials : Molecules, Polymers, Nano-Objects and Applications**  
**Miele Philippe**, Universite de Montpellier, France
- 10:00-10:30 **The Meta-Nano-Channel Biological Field-Effect Transistor For Specific and Label-Free Detection Of Biomolecular Interactions In Ultra-Small Samples**  
**Gil Shalev**, Ben-Gurion university of the Negev, Israel
- 10:30-10:55 **Antibody-Proteases as Translational Tools of the Next-Step Generation to be applied through Biodesign-driven Translational Biotech in Personalized and Precision Neurology Practice**  
**Sergey Suchkov**, Institute for Biotech & Global Health of RosBioTech and A.I. Evdokimov MGMSU, Russia
- 10:55-11:20 **Multivalent Protein Nanomedicines for Targeted Drug Delivery to Cancer Stem Cells Overexpressing CXCR4**  
**Ramon Manges Bafalluy**, Hospital de la Santa Creu i Sant Pau, Spain

## Invited Session

- 11:20-11:40 **Photocatalytic and antimicrobial properties of porous metal-organic framework (MOF) coatings**  
**Eveliina Repo**, Lappeenranta University of Technology, Finland

- 11:40-12:00 **Synthesis and Characterization of Tb-doped  $\text{LaPO}_4 \cdot n\text{H}_2\text{O}$  and  $\text{LaPO}_4$  Nanophosphors Prepared by Different Synthesis Routes**  
**María Teresa Colomer**, Titular Scientist ICV-CSIC, Spain
- 12:00-12:20 **How can a Plasma Deposited Film Enable the Use of Recycled Polypropylene for Food Contact?**  
**Robert Paiva**, University of Zaragoza, UniZar, Spain
- 12:20-12:40 **Advanced Laser Fabrication of Supercapacitor Hybrid Electrodes**  
**Angel Perez**, Institute of Materials Science of Barcelona, Spain
- 12:40-13:00 **Novel Flexible Materials for Radiochromic Film Design**  
**Miguel M Erenas**, University of Granada, Spain
- 13:00-13:20 **New Anode Materials for Next Generation Lithium ion Batteries**  
**Elena DEGOLI**, University of Modena and Reggio Emilia, Italy
- 13:20-13:40 **Multifunctional Polymeric Foams Based on High Performance Thermoplastics and Carbon Nan particles for Electromagnetic Interference Shielding**  
**Marcelo De Sousa Pais Antunes**, The Technical University of Catalonia, Spain
- 13:40-14:00 **Surface Kinetics Studies on Gas Sensors: An Operando DRIFT Approach**  
**Barbara FABBRI**, University of Ferrara, Italy
- 14:00-14:20 **Multifunctional Strategies for Tailoring Bioactive Glasses Composition and Surface Properties**  
**Marta Miola**, The Polytechnic University of Turin, Italy
- 14:20-14:40 **Hydrophilic Acrylates-Based Polymeric Nanoparticles as Nanocarriers for Multimodal Imaging Agents**  
**Sara Cerra**, The Sapienza University of Rome, Italy

## Plenary & Keynote Session

- 14:40-15:10 **Femto-Second Pulsed Laser Interaction of Dental Minerals for the Restoration of Acid Lesions and Implant Coatings**  
**Animesh Jha**, University of Leeds, UK
- 15:10-15:40 **Multicomponent High-Entropy Cantor Alloys**  
**Brian Cantor**, Brunel University, UK
- 15:40-16:05 **RNA Medicines: Chemical Evolution of Nano carriers**  
**Ernst Wagner**, Ludwig Maximilians University, Germany

16:05-16:30 **New Results for Nanoparticle-Protein Corona Modeling**

**Giancarlo Franzese**, University of Barcelona, Spain

## Invited Session

16:30-16:50 **Advances in Nanoscience for Art Conservation**

**Emiliano Carretti**, University of Florence, Italy

16:50-17:10 **Strong enhancement of the thermoelectric properties of nanostructured  $\alpha$ -SrSi<sub>2</sub>**

**Mickael Beaudhuin**, Montpellier University, France

17:10-17:30 **Functional Nano-Ferrites: Exploring Their Structural, Magnetic and Thermal Properties**

**Angelika Kmita**, AGH University of Krakow, Poland

17:30-17:50 **The Strengthening and Deformation Behaviour of Metal Matrix Nanocomposites Reinforced with Carbon Nanotubes**

**Sonia Simões**, The University of Porto, Portugal

17:50-18:10 **Possible Future of Nanomedicine: Using Cell Level Approach to Rejuvenation and Longevity**

**Koptyug Andrey**, Mid Sweden University Östersund, Sweden

18:10-18:30 **Lipid Nano-Delivery Systems for Encapsulating Photosensitiser and Inhibitor Molecules**

**Maria Raposo**, Universidade NOVA de Lisboa, Portugal

18:30-18:50 **Biologically Synthesised Silver Nanoparticles From Desert Truffles: A Novel Approach For Biomedical Applications**

**Sarah Alsaif**, Newcastle University, UK

18:50-19:10 **Fast THz Metamaterial/Graphene-Based Optoelectronic Modulators with GHz Modulation speed**

**Zaman Abdullah**, Lancaster University, UK

19:10-19:30 **NanoMedicines and Brain Diseases: Opportunities and Challenges**

**Giovanni TOSI**, University of Modena and Reggio Emilia, Italy

- 19:30-19:50 **Hydrogen and Biocorrosion Behavior of Metallic Glass on Different Length Scales**  
**Sarac Baran**, Erich Schmid Institute (ÖAW), Austria
- 19:50-20:10 **Investigating Phase Separation in Fluorapatite and Chitosan Composite**  
**GEETA SHARMA**, University of Leeds, UK
- 20:10-20:30 **3D NANOPRINTING VIA FOCUSED ELECTRON BEAMS:PRINCIPLES AND APPLICATIONS**  
**Harald Plank**, Graz University of Technology, Austria
- 20:30-20:50 **TBA**  
**Carlos Guerra**, Swiss Cluster AG, Switzerland

**End of day1**

# DAY 2

**September 26, 2023 | Virtual Presentation**

**Nanotechnology & Materials Science**

**Timezone:Beijing, China (GMT+8)**

## **08:50-09:00 Opening Ceremony**

### **Plenary & Keynote Session**

- 09:00-09:30 **Lessons Learned from Commercializing Nano Implants: Working with Universities and Regulatory Agencies to Help Human Health**  
**Thomas J webster**, Hebei University of Technology, China
- 09:30-10:00 **Geometric Modulation of Ceramic Components by Stereolithographic Additive Manufacturing**  
**Soshu Kiriara**, Osaka University, Japan
- 10:00-10:25 **Inorganic-based Conformational Nanoarchitectures for Drugless Therapy**  
**Ranjith Kumar Kankala**, Huaqiao University, China
- 10:25-10:50 **Electronic Structure Modulation of Non-Noble Single-Atom Electro Catalysts and Mechanistic Studies via X-ray Spectroscopies**  
**Kuei-Hsien Chen**, National Taiwan University, Taiwan

## Invited Session

- 10:50-11:10 **Active Carbon Dots for Both Environmental Remediation and Sensing and Biomedical Applications**  
**Ivan Cole**, Royal Melbourne Institute of Technology University, Australia
- 11:10-11:30 **Metallic Lithium: Modulation of Deposition Behavior and Application in Batteries**  
**Ying Zeng**, Chengdu University of Technology, China
- 11:30-11:50 **Development of Atomically Precise Au/Ag Nanoclusters Via Redox Control**  
**Haizhu Yu**, Anhui University, China
- 11:50-12:10 **The Study on the Influence Factor of Au-P Bond Dissociation Energies on  $A_2\mu$  Complex**  
**Ying Lv**, Anhui University, China
- 12:10-12:30 **Enantiomeric Separation of Phenylglycine using R-(3,3'-diphenyl-1,1'-dinaphthyl)-20-Crown-6 Membrane**  
**Li-Ming Yuan**, Yunnan Normal University, China
- 12:30-12:50 **Synthesis, Characterization of Plant-extract Nanocomposites and Application as Oilfield Corrosion Inhibitor**  
**Yuanhua Lin**, Southwest Petroleum University, China
- 12:50-13:10 **GeTe Nanosheets as Theranostic Agents for Multimodal Imaging and Therapy of Inflammatory Bowel Disease**  
**Kyung-Hwa Yoo**, Yonsei University, South Korea
- 13:10-13:30 **Effect of Length of  $MoS_2$  Channel Synthesized by CVD on Electrical Properties**  
**JeongHwan Park**, Hanyang University, South Korea
- 13:30-13:50 **Adhesion and friction of nanometer scale contacts**  
**Arnaud Caron**, Korea University of Technology and Education, South Korea
- 13:50-14:10 **Cellulose Derivatives NanoMaterial of Future Materials**  
**Pushpa Janarthanan**, Monash University Malaysia, Malaysia

## Plenary & Keynote Session

- 14:10-14:40 **Nanocomposite Membranes for Clean Energy and Clean Water**  
**Tai-Shung Chung**, NTUST, Taiwan
- 14:40-15:10 **Synthesis of Graphene Films Towards Industrial Production**  
**Xuesong Li**, University of Electronic Science and Technology of China, China
- 15:10-15:40 **MXetronics: Integrated Electronics Using MXenes**  
**Husam Niman Alshareef**, King Abdullah University of Science and Technology, Saudi Arabia
- 15:40-16:05 **DNA Molecular Engineering of Theranostic Drugs**  
**Zeyu Xiao**, Shanghai Jiao Tong University School of Medicine, China

## Invited Session

- 16:05-16:25 **Carboxyl Functionalized Carbon Nanofibers as Active Sensing Material for Detection of Benzene**  
**Noor Azilah Mohd Kasim**, The National Defence University of Malaysia , Malaysia
- 16:25-16:45 **Functional Materials Consisting of Nanoparticulated Plant Aromatic Polymer, Lignin, via Sustainable Extraction Process**  
**Kazuhiro Shikinaka**, National Institute of Advanced Industrial Science and Technology (AIST), Japan
- A **Accompanying Person**  
**Sukmawati Tansil Tan**, Tarumanagara University, Indonesia
- 16:45-17:05 **The Potential of Collagen-Coated PLLA Scaffold Immobilized With Conditioned Medium in Ameliorating Diabetic Wound Healing**  
**Siufui Hendrawan**, Tarumanagara University, Indonesia
- 17:05-17:25 **Does Travoprost Hide an Ace Up Its Sleeve? Travoprost, a Promising Gadget for Enduring Alopecia**  
**Doaa hamdy shakshak**, Ain Shams University, Egypt
- 17:25-17:45 **Impact of BaSO<sub>4</sub> Additions On The Microstructure & Mechanical Properties of Cu- 20Fe Composite For Chain Brake Bits Applications Manufactured By Powder Metallurgy**  
**Omayma Abd El- Gawad ElKady**, Central Metallurgical Research & Development Institute, Egypt

- 17:45-18:05 **Green Synthesis of Dual-Functional  $\text{Cu}_2\text{O}$ - $\text{Cu}(\text{OH})_2$  @Cu Mesh for Catalytic Dye Degradation and Oil/Water Separation**  
Hala Abdulaziz Al-Jawhari, King Abdullah University of Science and Technology, Saudi Arabia
- 18:05-18:25 **Influence of the Bi:Fe ration on the Physical and Photocatalytic Properties of Bi-Mg-Cu Ferrites**  
Hanaa Almaghamisi, King Abdulaziz University-Rabigh, Saudi Arabia
- 18:25-18:45 **NanoMaterials-Based Supercapacitors Prepared by Cost-Effective and Simple Methods**  
Nuha A. Alhebshi, King Abdulaziz University, Saudi Arabia
- 18:45-19:05 **Effect of  $\text{Cu}^{2+}$  Substitution on Structural, Elastic, Magnetic, Dielectric and Optical Properties of Magnesium Zinc Ferrite Nanoparticles for High Frequency Devices and Photocatalytic Application**  
Noor basfar, Umm Al Qura University, Saudi Arabia
- 19:05-19:25 **TBA**
- 19:25-19:45 **Mohammed Alamri, Umm Al Qura University, Saudi Arabia  
Microwave Plasma Technology for the Production of Graphene and Graphene Derivatives**
- 19:45-20:05 **Edgar Felizardo, Institute of Plasma and Nuclear Fusion (IPFN), Portugal  
Rationalizing Surface Electronic Configuration of Transitional Metal Oxides Boosting Oxygen Electrode Reactions in Aprotic Lithium-Oxygen Batteries**
- 20:05-20:25 **Chaozhu Shu, Chengdu University of Technology, China  
Carbon-Based Nanomaterials Interfacing With Neurons: Impact on Signalling and Regrowth**
- 20:25-20:45 **Rossana Rauti, University of Urbino, Italy  
TBA**  
Yuhao Liu, Hainan University, China

## End of Day 2

# DAY 3

September 27, 2023 | Virtual Presentation

Nanotechnology & Materials Science

Timezone: Chicago, USA (GMT-5)

**08:50-09:00 Opening Ceremony**

## Plenary & Keynote Session

- 09:00-09:30 **Advances in Functional Thermoplastic Elastomer Systems as a Versatile Class of Self-Networking Materials**  
Richard Spontak, North Carolina State University, USA



- 09:30-10:00 **Impact of Nanobiotechnology on the Future of Medicines: The Road Toward Precision Medicines –Case Studies**  
**Mousa Shaker**, Albany College of Pharmacy and Health Sciences, Newyork
- 10:00-10:30 **Review of Nature's Nano Medicine**  
**Temple F Smith**, Boston University, USA
- 10:30-10:55 **Thermal Effects of ALD-grown and CVT Synthesized MoS<sub>2</sub>**  
**S. M. Shendokar**, North Carolina A&T State University, USA

### Invited Session

- 10:55-11:15 **Smart Autonomous Microsystems for the IoT Era**  
**Amine Bermak**, Hamad Bin Khalifa University, Qatar
- 11:15-11:35 **Simultaneous Mo Intercalation and Pt Deposition on MWCNTs for Improving Hydrogen Evolution Reaction**  
**Jorge Roberto Vargas Garcia**, The National Polytechnic Institute, Mexico
- 11:35-11:55 **Exploring The Night Vision Compatibility of QD-LED Device Architectures For Display Technology**  
**Esin UÇAR**, ASELSAN, Turkey
- 11:55-12:15 **3D Porous Laser-Induced Graphene Sponges**  
**A. Yavuz Oral**, Gebze Technical University, Turkey.
- 12:15-12:35 **Simulated Performance Improvements in FinFETs Using  $\epsilon$ -Functionally Graded Dielectrics**  
**Alper ÜLKÜ**, ASELSAN, Turkey
- 12:35-12:55 **Characterization of Triplet State of Cyanine Dyes with Two Chromophores. Effect of Molecule Structure**  
**Iouri Borissevitch**, Sao Paulo University, Brazil
- 12:55-13:15 **Curcuminoid Based Materials: Molecules, Coordination Polymers and Surface Functionalization for Future Applications**  
**Monica Soler Jauma**, University of Chile, Chile
- 13:15-13:35 **Graphene Oxide Nanostructures for Pharmaceutical Pollutants Removal from Water**  
**Barbara Rodriguez**, Bernardo O'Higgins University, Chile
- 13:35-13:55 **New Ideas About the Structure of Oxide Melts**  
**Vladimir Sokol'skii**, Taras Shevchenko Kiev National University, Ukraine

- 13:55-14:15 **Stroma Breaking Nanocomplex Carrying a Potent Irinotecan Derivative for Effective Treatment of Pancreatic Cancer**  
**LEI ZHU**, Emory University, USA
- 14:15-14:35 **Nanoparticle Influenza Vaccines**  
**Baozhong Wang**, Georgia State University, USA

**End of Day 3**

We wish to see you at

# NanoMat-2024

2nd International conference on  
Nanotechnology & Nano Materials Science  
23-25 Sep,2024 | Paris, France



XPERTS MEETINGS

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