

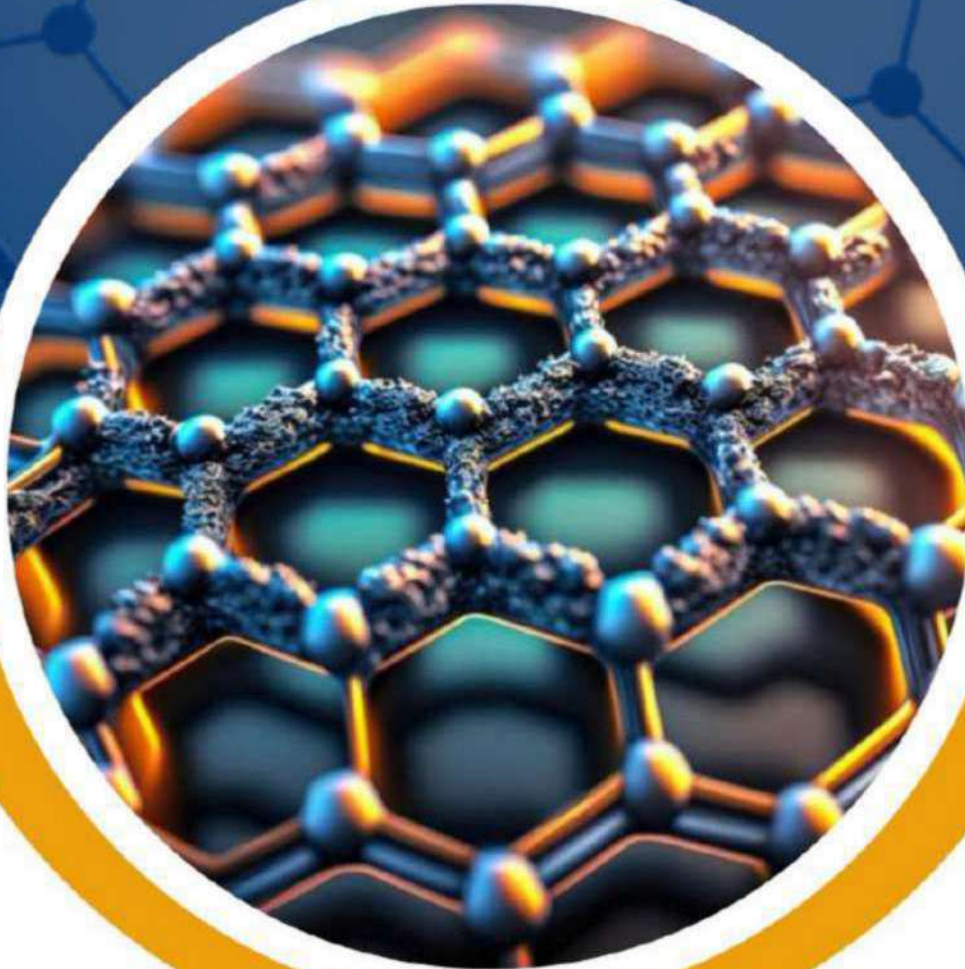
FINAL PROGRAMME

2nd International Conference on

NANOMAT-2024

Nanotechnology & Materials Science


November 25-26, 2024 | Webiner



 nanomat24@xpertsmeetings.org

 +91 8341 464854

 <https://nanomatconfex.org/>

 #3rd Floor, Shanthala Nagar,
Bengaluru, 560001

DAY 1 | NOVEMBER 25, 2024

Time Zone: Beijing, Asia (GMT+8)

09:00-09:30 Opening Ceremony

Plenary Session

Conference Chair: Thomas J. Webster, China

09:30-10:20 P **Title: Implantation of Nanomaterials in Humans: Zero Failures, Complete Success**
Thomas J. Webster, Hebei University of Technology, China

10:20-11:10 P **Title: Thiolated Nanocarriers for Drug Delivery: Mimicking the Workhorses of Our Body**
Bernkop-Schnürch Andreas, The University of Innsbruck, Austria

11:10-11:50 K **Title: Strain Glass as Potential Smart Materials**
REN Xiaobing, National Institute for Materials Science, Japan

Invited Session

11:50-12:20 I **Title: Diode Devices for Detection of Hydrogen Under Gaseous Atmosphere and Monitoring of Oil Deterioration**
Takeo Hyodo, Institute of Integrated Science and Technology, Nagasaki University, Japan

12:20-12:50 I **Title: Examining Adsorption Characteristics and Adsorption Energy on Gas Sensors Utilizing Multi-walled Carbon Nanotubes: A Comparison Between Polar and Non-Polar Molecules**
Mengli Zhang, Hiroshima University, Japan

12:50-13:20 I **Title: Extremely Thin Insulating Oxide Coating on Titanium Dioxide Ultrafine Powder via Atomic Layer Deposition**
Qinghong Zhang, Donghua University, China

13:20-13:50 I **Title: Multi-Dimensional Structure Regulation of Bismuth-Based Materials for Potassium ion Storage Application**
Lu Wang, Shandong University, China

13:50-14:20 I **Title: Applications of Semiconductor Quantum Dots in Display and Photovoltaic Technologies**
Hsueh-Shih Chen, National Tsing Hua University, Taiwan

14:20-14:50 I **Title: Hybrids Comprising Cellulose Nanocrystals and percolated Networks of Carbon Nanotubes**
Rachel Yerushalmi-rosen, Ben-Gurion University of the Negev, Israel

14:50-15:20 I **Title: A Sustainable Approach to Develop Nano-Adjuvants Against Cancer**
Daniela Edith Salado Leza, The Autonomous University of San Luis Potosi, Mexico

15:20-16:10 P **Title: Nanostructured Materials for Biomedical and Energy Applications**
Jackie Y. Ying, King Fahd University of Petroleum and Minerals, Saudi Arabia

16:10-16:40 I **Title: TBA**
Yoichi Kumada, Kyoto Institute of Technology, Japan

16:40-17:10 I **Title: Neural Network Method for Solving Two-Temperature Micro/Nanoscale Heat Conduction in Thin Films Exposed to Ultrashort-Pulsed Lasers**
Weizhong Dai, Louisiana Tech University, USA

End of Day 1

DAY 2 | NOVEMBER 26, 2024

Day 2 | November 26, 2024

Time Zone: London, UK (GMT+1)

09:00-09:30		Opening Ceremony
09:30-10:00	I	Title: Metalloid Group 11 Clusters: Novel Properties and Applications. Andreas Schnepf, The University of Tübingen, Germany
10:00-10:30	I	Title: 3D Printing Technologies for the Fabrication of Sensors and Actuators Stefano Stassi, Polytechnic of Turin, Italy
10:30-11:00	I	Title: Heat-Resistant Al Alloys with Diffusion-Dominated Solid State Phase Transformation via Solute Uptake and Interstitial Ordering Hang Xue, Chong Yang, Gang Liu Xi'an Jiaotong University, China
11:00-11:30	I	Title: Effect of Metal Doping in C3N4 Nanocomposites on the Photocatalytic Elimination of Pollutants Ricardo Torres Palma, University of Antioquia, Colombia
11:30-12:00	I	Title: Correlation of Nano-Volumes and Adsorption Properties of Polymer Matrixes with Parameters of Electrochemical Biosensors Taras Kavetskyy, Institute of Physics, Slovak Academy of Sciences, Slovakia
12:00-12:30	I	Title: Investigating Behaviour of Geopolymer with Water proof Admixtures in High Temperatures Dariusz Mierzwiński, Cracow University of Technology, Poland
12:30-13:00	I	Title: Surface Structure of V-Cr-Ti Alloys Irradiated by a Femto Second Laser Zoja Duriagina, Cracow University of Technology, Poland
13:00-13:30	I	Title: Development of Innovative MIP Based Sensors for Liquid Biopsy Giulia Siciliano, CNR Nanotec - Institute of nanotechnology, Italy
13:30-14:00	I	Title: Multifunctional Iron Oxide: Gold Nanoparticles. Structure-properties Relationship in Biomedicine Javier Reguera Gómez, Basque Center for Materials, Spain
14:00-14:30	I	Title: The Tunnelling Contribution to Electron Transfer Rates in Polar and Non-Polar Environment : A Generalization of Marcus' Theory Anna Leo, University of Salerno, Italy
14:30-15:00	I	Title: TBA Simona Sabbatini, Polytechnic University of Marche, Italy
15:00-15:30	I	Title: Sensors Based on Biomedical Textiles and Nanoparticles Coupled to Surface Enhanced Raman Scattering for Temperature and Motion Detection Sonia Lanzalaco, Polytechnic University of Catalonia, Spain
15:30-16:00	I	Title: Thin Films Coatings in Closed Environments: Application to Hollow-Core Fibers Jenny Jouin, University of Limoges, France
16:00-16:30	I	Title: A 3D Pancreatic Cancer Model with Integrated Optical Sensors for Non-Invasive Metabolism Monitoring and Drug Screening Anna Chiara Siciliano, CNR Nanotec - Institute of nanotechnology, Italy
16:30-17:00	I	Title: Embedded Microstructures Arrays for Single-Cell Sorting and Collection of Lymphocytes Following HIV Latency Reactivation Belen Cortes Llanos, Centre for Micro-Analysis of Materials, University of Madrid, Spain
17:00-17:30	I	Title: First Principles Calculation of Structural Relaxations and Electronic Properties of Scintillator Materials Such as Garnet Lu₃Al₅O₁₂ (LuAG) co-doped Ce³⁺ and alkali metals (Li⁺, K⁺, Na⁺) Lasmi Mustapha, Nuclear Research Center of Algiers, Algeria
17:30-18:00	I	Title: Sustainable Development of Nano-Adjuvants for Radiotherapy in Mexico Fernanda Abigail Silva Melgarejo, Autonomous University of San Luis Potosi, Mexico
18:00-18:30	I	Title: Microplastics, Macro Problem. Challenges in Detection and Characterization. Edgar Arturo Chavez Urbiola, National Polytechnic Institute, Mexico
18:30-19:00	I	Title: A Highly Efficient Self-Assembly and Transfer Method for Fabrication of Three-Dimensional Metallic/Bimetallic Films for SERS-Based Molecular Detection Siva Kumar Krishnan, Meritorious Autonomous University of Puebla, Mexico
19:00-19:30	I	Title: Polymer Composites with Carbonaceous Nanoparticles as Efficient Microwave Absorbing Materials Bluma Guenther Soares, Federal University of Rio de Janeiro, Brazil
19:30-20:10	P	Title: TBA Elvira Fortunato, Nova University, Portugal
20:10-20:50	P	Title: New Photosensitizing Agents Based on Graphene Quantum Dots Paulo cesar de morais, Catholic University of Brasília, Brazil
20:50-21:25	K	Title: Potential Hybrid Catalysts for CO₂ Reactions Martin Schmal, Federal University of Rio de Janeiro, Brazil
21:25-22:00	K	Title: Boosting Cycle Life and Specific Energy of Nanoscale Silicon Anodes for Next-Generation Rechargeable Batteries Leon Shaw, Illinois Institute of Technology, USA
22:00-22:30	I	Title: Novel Nanocomposite Membranes for Water Recovery from Mining Wastewaters using Membranes Distillation Process (MD) Andreina Garcia, University of Chile, Chile
22:30-23:00	I	Title: TBA Sepideh Akhbarifar, The Catholic University of America, USA

End of Day 2