



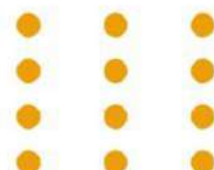
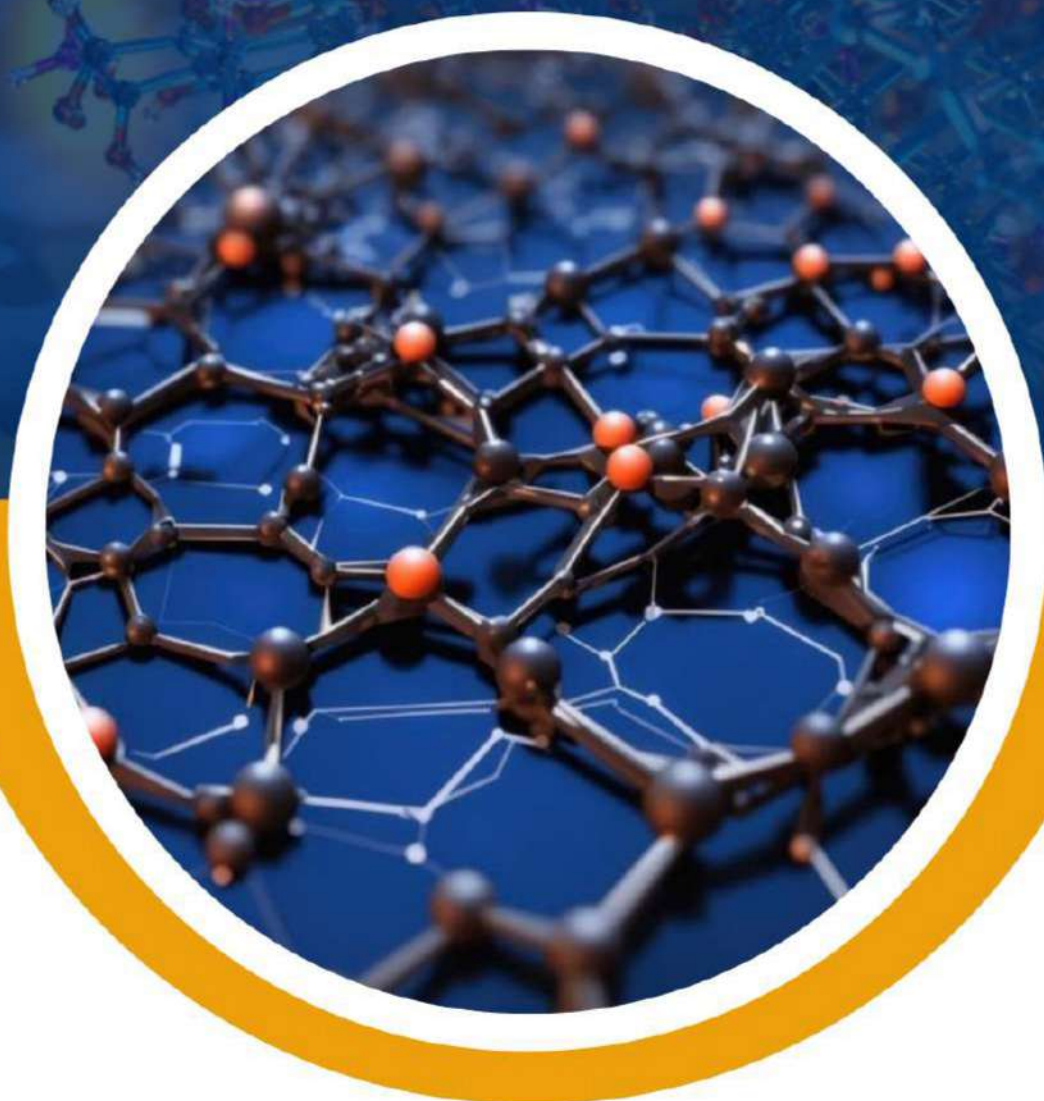
# FINAL - PROGRAMME

International Conference on

# MATERIALS-2024

## Materials Science & Engineering


August 22-24, 2024 | Webiner



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 #3rd Floor, Shanthala Nagar,  
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# DAY -1 AUGUST 22, 2024

Time Zone: Beijing, Asia (GMT+8)		
09:00-09:10	Opening Ceremony	
<b>Plenary &amp; Keynote Session</b>		
<b>Conference Chair: Thomas webster, China</b>		
09:10-09:50	P	<b>Title: Nano-Graphene: Advances, Limitations, and Promises in Health</b> Thomas Webster, Hebei University of Technology, China
09:50-10:30	P	<b>Title: Defect Engineering towards Improved Performance in Photocatalytic Conversion of Nitrogen-based Molecules</b> Chuanyi Wang, Shaanxi University of Science & Technology, China
10:30-11:10	P	<b>Title: Tuning of Electrooptical Properties of Hybrid Perovskites with Pressure</b> Shen Ze xiang , Nanyang Technological University, Singapore
<b>Invited Session</b>		
11:10-11:35	I	<b>Title: HVPE Growth of SiGe (Ge, Si) -AlN Core-Shell Microneedles by Al-Based Nano Absorber</b> Suhyun Mun, National Korea Maritime & Ocean University, South Korea
11:35-12:00	I	<b>Title: Biofunctional Octanoyl Glycol Chitosan Thermogels for Biomedical Applications</b> Se Yeon Shin, Chungnam National University, South Korea
12:00-12:25	I	<b>Title: Properties of Hexagonal-Shape Si Epilayer on 4H-SiC Substrate Grown by Hydride Vapour Phase Epitaxy</b> Seonwoo Park, National Korea Maritime & Ocean University, South Korea
12:25-12:50	I	<b>Title: TBA</b> Seunghyun Cho, Dongyang Mirae University, South Korea
12:50-13:15	I	<b>Title: Analysis of Temperature Effect of Protection Material for the 66kV Submarine Cable Under laying Methods and Burial Depths</b> Sung-Woong Choi, Gyeongsang National University, South Korea
13:15-13:40	I	<b>Title: Magnetic Orders and Quantum Anomalous Hall effect in AB-Stacked Transition Metal Dichalcogenide Moiré Heterobilayer MoTe<sub>2</sub>/WSe<sub>2</sub></b> Tianyu Qiao, Hong Kong University of Science and Technology, Hong Kong
13:40-14:05	I	<b>Title: magneto transports in cadmium arsernide thin films</b> WANGQIAN MIAO, Hong Kong University of Science and Technology, Hong Kong
<b>Plenary &amp; Keynote Session</b>		
14:05-14:45	P	<b>Title: Personalized and Precision Medicine (PPM) as a Unique Healthcare Model to BeRe-Armed via Biodesign-driven Biotech: Engineering Biomaterials of the Next Step Generation</b> Sergey Suchkov, The Russian University of Medicine, Moscow, Russia
14:45-15:25	P	<b>Title: TBA</b> Redouane Borsali, University Grenoble Alpes, France

**Invited Session**

15:25-15:50	I	<b>Title: Development and Characterization of Gel/OHA Hydrogels for Injectable Biomedical Applications</b> Minhee Cho, Chungnam National University, South Korea
15:50-16:15	I	<b>Title: 3D-printed adsorption materials for metal removal and recovery</b> Eveliina Repo, LUT University, Finland
16:15-16:40	I	<b>Title: In-situ testing structure design of thin film material parameters for MEMS application</b> Zaifa Zhou, Southeast University, China
16:40-17:05	I	<b>Title: TBA</b> Fawang Liu, Queensland University of Technology, Australia
17:05-17:30	I	<b>Title: The heavy-fermion model of magic-angle twisted bilayer graphene</b> Hao Shi, Hong Kong University of Science and Technology, Hong Kong
17:30-17:55	I	<b>Title: Magnetisms in CoTe6O13</b> Matthew Shu Liang, Hong Kong University of Science and Technology, Hong Kong
17:55-18:20	I	<b>Title: Laminarin Modified Platinum Nanozyme Alleviating Neuroinflammation after Intracerebral Hemorrhage Via Regulating the Polarization of Microglia</b> Xiumei guo, Fujian Medical University, China
18:20-18:45	I	<b>Title: Hydrogel Combined with Nanoenzyme in the Treatment of Stroke</b> Wen Gao, Fujian Medical University, China
18:45-19:10	I	<b>Title: Study on the Treatment of Cerebral Hemorrhage by Intranasal Administration of PEG-PLA Coated laminaria Polysaccharide/Platinum Nanase</b> Yinfeng xiao, Fujian Medical University, China
19:10-19:35	I	<b>Title: Multiscale Characterization of (Micro)Plasticity in hcp Metals</b> Michal Knapek, Charles University, Czech Republic
19:35-20:00	I	<b>Title: Study on Surface Modification Technology to Improve Wear and Fatigue Properties of Pure</b> Masataka Ijiri, Tokyo Metropolitan University, Japan
20:00-20:25	I	<b>Title: Machine Vision System Based on Digital Holography Methods and Deep Convolutional Neural Networks for Automatic Registration of Volume Defects and their Identification in Optical Workpieces</b> Victor Dyomin, National Research Tomsk State University, Russia
20:25-20:50	I	<b>Title: Electrospinning of lignin Nanofibers from Natural Deep Eutectic Solvent</b> Filip Kasprzyzyn, Poznan University of Technology, Poland
20:50-21:15	I	<b>Title: A New Boundary Element Modeling for Fractional Three-Temperature Generalized Magneto-Thermoelectricity Problems in Functionally Graded Materials</b> Mohamed Abdelsabour Fahmy, Ummul Qura University, Saudi Arabia
21:15-21:40	I	<b>Title: TiVNbCrMn HIGH ENTROPY ALLOYS FOR HYDROGEN STORAGE</b> KATIA REGINA CARDOSO, Federal University of São Paulo, Brazil
21:40-22:05	I	<b>Title: High-Strength Materials for High Field Resistive Magnets</b> Ke Han, Florida State University, USA
22:05-22:30	I	<b>Title: Structure-Properties Relationships in Ni-Mn-Based Heusler Alloys for Magnetocaloric Applications</b> Pnina Ari-Gur, Western Michigan University, USA

**End of Day 1**

# DAY -2 AUGUST 23, 2024

**Time Zone: London, UK (GMT+1)**

09:00-09:30 Opening Ceremony		
Keynote Session		
9:30-10:10	K	<b>Title: Controlling Thin Films and Interfaces for Superior Performance of Spintronic Sensors</b> Susana Cardoso Freitas, INESC-Microsystems and Nanotechnology, Portugal
10:10-10:50	K	<b>Title: Enhancing Catalytic Reduction of Nitroaromatic Compounds with Subnanometric Re-based Nanocatalysts</b> Piotr Cyganowski, Wroclaw University of Science and Technology, Poland
Invited Session		
10:50-11:20	I	<b>Title: A study on the Change in Fluidity According to Si Content in Aluminum Alloys through Simulation of Casting Processes</b> Seokbae Lee, Daegu Gyeongbuk Center, South Korea
11:20-11:40	I	<b>Title: Thermally Stable Aromatic SAMs for Formation of Highly Conductive or Highly Insulating Organic Monolayers on Metals</b> Piotr Cyganik, Jagiellonian University, Poland
11:40-12:10	I	<b>Title: TBA</b> Giovanni Magno, Polytechnic University of Bari, Italy
12:10-12:40	I	<b>Title: Effect of Surface Slurry Aluminization on High Temperature Behavior of DADI</b> Olga Tsurtssumia, Georgian Technical University, Georgia
12:40-13:10	I	<b>Title: Creating Materials with a Desired Magnetic Permeability Based on Asymptotic Solving the EM Wave Scattering Problem</b> Mykhaylo Andriyчук, Pidstryhach Institute for Applied Problems of Mechanics and Mathematics NASU, Ukraine
13:10-13:40	I	<b>Title: Polymeric Composite with Calcium Carbonate Originating from a Rock Waste Source</b> Marceli do Nascimento da Conceição, Mineral Technology Center, Brazil
13:40-14:10	I	<b>Title: Precipitation of Al-Cu-Mg Based Alloys Produced by Additive Manufacturing</b> Jiehua Li, University of Leoben, Austria
14:10-15:00 Break Time		
Plenary Session		
15:00-15:40	P	<b>Title: TBA</b> Liu Jun, Pacific Northwest National Laboratory, USA
15:40-16:20	P	<b>Title: TBA</b> Ram Gupta, Pittsburg State University, USA
16:20-17:00	K	<b>Title: Compositionally and structurally modulated materials for exceptional functional and mechanical properties</b> Yunzhi Wang, The Ohio State University, USA
Invited Session		
17:00-17:30	I	<b>Title: Enhancing Ceramic Filler Content in Photocurable Resin for High-Resolution 3D- VAT Additive Manufacturing</b> Trembecka-Wójciga Klaudia, Cracow University of Technology, Poland
17:30-18:00	I	<b>Title: Comparative Morpho-Structural Characterization of Titanium Dioxide Materials Correlated with the Hydrothermal Synthesis Method</b> Cornelia Bandas, National Institute for Research and Development in Electrochemistry and Condensed Matter, Romania
18:00-18:30	I	<b>Title: Seeking ferroelectricity: The Influence of Methylhydrazinium in Organic-Inorganic perovskites</b> Adam Sieradzki, Wroclaw University of Science and Technology, Poland
18:30-19:00	I	<b>Title: Electromagnetic and electrical methods revealing fault-controlled aquifer geometry and saline water uprising</b> Patrizio Torrese, The University of Pavia, Italy
19:00-19:30	I	<b>Title: TBA</b> Bruno Carpentieri, Free University of Bozen-Bolzano, Italy
19:30-20:00	I	<b>Title: High Entropy Alloys for Nuclear Fusion Reactors</b> Marta Dias, IPFN, Instituto Superior Técnico, Portugal
20:00-20:30	I	<b>Title: TBA</b> Paul Wood, The University of Derby, UK
20:30-21:10	P	<b>Title: The Universal Asymptotic Behavior of Magnetic Hyperthermia</b> paulo cesar de morais, Catholic University of Brasilia, Brazil
End of Day 2		

UPCOMING CONFERENCE

<https://xpertsmeetings.org/materials25/>

2<sup>nd</sup> INTERNATIONAL CONFERENCE ON

# MATERIALS SCIENCE & ENGINEERING

August 21-23 2025 | Barcelona, Spain



**XPERTS MEETINGS**



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