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Virtual Conference on
**Materials Science
and Engineering**

February 12 & 13, 2024
(GMT Timings) (Zoom Meetings)

Theme:

**“Pioneering the emerging Trends
in Materials Science”**

MATCON 2024

<https://materialsscience.authorsequity.org/>

GMT Timing	Speaker's Name & Affiliation	Presentation Title
08:50 - 09:00	Introduction & Open Ceremony	
Keynote Presentations (GMT Timings)		
09:00 - 09:30	Hideyuki Kanematsu <i>National Institute of Technology, Japan</i>	Biofilm control on metallic materials in medical fields from the viewpoint of materials science – from the fundamental aspects to evaluation
09:30 - 10:00	Sahrim Ahmad <i>University Kebangsaan, Malaysia</i>	Advancements in Microwave Absorption: Nanocomposite Applications of Magnetic Conductive Thermoplastic Rubber
10:00 - 10:30	Valeria De Matteis <i>University of Salento</i>	Electrolytes based on hydrogels with multifunctional properties for thermoelectrochromic devices
10:30 - 10:50 (Eye Relaxation Break & Breakout Rooms - (GMT Timings)		
Oral Presentation Continues... (GMT Timings)		
10:50 - 11:10	Mindy Levine <i>Ariel University, Israel</i>	Filter Paper-Based Colorimetric Detection: Simple Material, Exciting Results
11:10 - 11:30	Raffaella Signorini <i>University of Padova, Italy</i>	Biocompatible optical nanothermometers for biological applications
11:30 - 11:50	Rita Cortesi <i>University of Ferrara, Italy</i>	Administration of bioactive phytochemicals by mean of nanotech-systems
11:50 - 12:10	Shorouq Ahmed <i>Kuwait institute of Scientific Research, Kuwait</i>	Evaluation and utilization of fly ash from power generation plants in wastewater treatment
10:30 - 10:50 (Eye Relaxation Break & Breakout Rooms - (GMT Timings)		
Oral Presentation Continues... (GMT Timings)		

12:30 - 12:50	Reza Javaherdashti <i>Eninco Engineering B.V, Netherlands</i>	Microbiologically influenced corrosion (MIC):What you will not hear from Experts!
12:50 - 13:10	Reena Saxena <i>Kirori Mal College,India</i>	Polypyrrole and Ionic Liquid based MWCNTs Nanocomposite as Sensing Platform for Detection of Chloramphenicol
13:10 - 13:30	Manisha Malviya <i>Indian Institute of Technology, Varanasi,India</i>	Oxygen evolution electrocatalysis and operando spectroelectrochemical studies of CoSe₂@pMF-R nanostructures
13:30- 13:50	Erum Zahir <i>University of Karachi, Pakistan</i>	Ecofriendly Green Synthesis Approach of Silver/ Graphene Nanocomposte using Avicenna marina for the removal of dyes

13:50 - 14:10 (Eye Relaxation Break & Breakout Rooms - (GMT Timings)

Keynote Presentations (GMT Timings)

14:10 - 14:40	Brian Cantor <i>University of Oxford, UK</i>	Multicomponent High-Entropy Cantor Alloys
14:40 - 15:10	Thomas J. Webster <i>Hebei University of Technology, China</i>	Human Nanomedicine: Nanomaterials in Humans with No Implant Failures
15:10 - 15:40	V. K. Jain <i>Amity University , India</i>	Silicon Nanowires (SiNWs) on Si chip and their Applications
15:40 - 16:10	Ihsan Ulhaq Toor <i>King Fahd University Saudi Arabia</i>	Stainless steel alloy- Past, present and Future

Oral Presentation Slots Available

Oral Presentation Slots Available

Oral Presentation Slots Available

Oral Presentation Slots Available

***** End of Day 1*****

GMT Timing	Speaker's Name & Affiliation	Presentation Title
08:50 - 09:00	Introduction & Open Ceremony	
Keynote Presentations (GMT Timings)		
09:00 - 09:30	Mariafrancesca Cascione <i>University of Salento, Italy</i>	Materials Nanotechnology: improvement of PMMA Dental Matrix Performance by Addition of different engineered nanomaterials (Ag NPs, TiO₂ NPs)
09:30 - 10:00	Lucia G. Delogu <i>University of Padua, Italy</i>	High-Dimensional Approaches for Immune Profiling of 2D Materials
10:00 - 10:30	Karsten Koenig <i>Saarland University, Germany</i>	In vivo multimodal multiphoton tomography to detect sunscreen nanoparticles and cosmetic microplastics in human skin
10:30 - 11:00	Wei Min Huang <i>Nanyang Technological University, Singapore</i>	Rapid manufacturing anywhere, anytime
11:00 - 11:20 (Eye Relaxation Break & Breakout Rooms - (GMT Timings))		
Oral Presentation Continues... (GMT Timings)		
11:20 - 11:40	Christian Paglia , <i>Institute of Materials and Constructions (IMC), DACD – SUPSI, Switzerland</i>	Concrete with accelerated natural carbonated recycled cementitious aggregates
11:40 - 12:00	Dalila Ikermoud , <i>Semiconductor Technology Research Center for Energy, Algeria</i>	Photocatalytic reduction of Cr(VI) in aqueous solution by TiO₂
12:00 - 12:20	Shorouq Ahmed , <i>Kuwait institute of Scientific Research, Kuwait</i>	Comparison of fly ash from power plants in Kuwait in preparation for use in wastewater treatment

12:20 - 12:40	Suresh Aluvihara <i>University of Peradeniya, Sri Lanka</i>	Advanced Microscopic Analysis of a Sri Lankan Anthill Clay Variety for the Investigation of Industrially Demanded Characteristics
12:40 - 13:00 (Eye Relaxation Break & Breakout Rooms - (GMT Timings))		
Oral Presentation Continues... (GMT Timings)		
13:00 - 13:20	Simona Tarantino <i>University of Salento, Italy</i>	Functionalized gold nanoparticles supporting radiotherapy treatments of radioresistant tumor
13:20 - 13:40	Chiara Provenzano <i>University of Salento, Italy</i>	Boron-10 Thin Films via Pulsed Laser Deposition: Advanced Neutron Detection Applications
13:40 - 14:00	Daniele Costa <i>University of Salento, Italy</i>	Chitosan films reinforced with Green-synthesized Silver Nanoparticles
14:00 - 14:20	Angelantonio De Benedetto <i>University of Salento, Italy</i>	Synthesis of titanium dioxide nanoparticles decorated with silver green synthesized nanoparticles
14:20 - 14:40 (Eye Relaxation Break & Breakout Rooms - (GMT Timings))		
Oral Presentation Continues... (GMT Timings)		
14:40 - 15:00	Agnese De Luca <i>University of Salento, Italy</i>	Morphological and Mechanical studies on Human Alveolar Cells exposed to SiO₂ NPs varying in size and superficial charge
15:20 - 15:40	Julianne C. Gripenburg <i>Rutgers University-Camden, USA</i>	Pulsed laser induced membrane disruptions of gold nanoparticle loaded micron- and nano-scale polymersomes
15:40 - 16:00	Seongwoo Woo <i>Ethiopian Technical University, Ethiopia</i>	Presentation Title Improving the Fatigue Design of Mechanical Systems such as Refrigerator
16:00 - 16:20	Laura Maria Slavu <i>University of Salento, Italy</i>	Metallic Organic Frameworks (MOFs) based nanozyme as promising nanomaterials for enhanced sensitive lateral flow assay (LFAs) (Proof Of Concept)

14:20 - 14:40 (Eye Relaxation Break & Breakout Rooms - (GMT Timings)

Poster Presentations (GMT Timings)

16:40 - 17:00	Ujwala Verma <i>Rutgers University-Camden, USA</i>	A facile method for producing alkyne-functionalized gold nanoparticles via pulsed laser ablation in liquid
17:00 - 17:20	Z. Kovziridze <i>Georgian Technical University, Tbilisi, Georgia</i>	Failure Stress Energy Formula

Oral Presentation Continues... (GMT Timings)

17:20 - 17:40	Michele Nash-Hoff <i>ElectroFab Sales, USA</i>	How to Select the Right Processes and Sources for Your Products
17:40 - 18:00	Lali K Medina-Kauwe <i>Cedars-Sinai Medical Center, USA</i>	Repurposed pathogen protein as biomaterial for systemic homing to resistant and metastatic tumors

Oral Presentation Slots Available

Oral Presentation Slots Available

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Oral Presentation Slots Available

***** End of Conference*****