

Scientific Program Day -1 (Oct 06, 2022)	
08:00 - 09:00	Registraions
09:00 - 09:15	Opening Ceremony & Moderator Speech
09:15 - 09:45	Title: Multicomponent High-Entropy Cantor alloys
	<i>Brian Cantor, University of Oxford, UK</i>
09:45 - 10:15	Title: Properties of self-oxidized single crystalline perovskite N : BaTiO₃ oxynitride epitaxial thin films
	<i>Antoine BARBIER, IRAMIS/SPEC, Université Paris-Saclay, CEA, France</i>
10:15 - 10:45	Speaker Slot Available
10:45 - 11:00	Group Photo & Refreshment Break
Morning Session	
11:00 - 11:20	New empirical equation for the effective viscosity of nanofluids
	<i>Gabriella Bognar, University of Miskolc, Institute of Machine and Product Design, Hungary</i>
11:20 - 11:40	Title: Room temperature synthesis of GO/Ag₂O nanocomposite: Broad spectral ranged solar photocatalyst and high efficacy antibiotic for waste water treatment
	<i>Kajari Dutta, Amity University Kolkata, India</i>
11:40 - 12:00	Title: Depth Profiling and Reactivity of SrVO₃ thin films
	<i>Damien Aureau, UVSQ CNRS, France</i>

12:00 - 12:20	Title: Laser-assisted selective fabrication of copper traces on polymers by electroplating
	<i>Vitalij Fiodorov, Center for Physical Sciences and Technology, Lithuania</i>
12:20 - 12:40	Title: 3-Ketoquinolones as new photoinitiators for free radical photopolymerization under LED
	<i>Marika Morone, IGM Resins Italia, Italy</i>
12:40 - 13:00	Title: Chemical composition of amorphous phase on the reactivity of phosphoric acid activation of volcanic ashes.
	<i>Antoine Elimbi, University of Yaoundé I, Cameroon</i>
13:00 - 13:20	Title: Impact of Wet Chemical Pre-treatments in the Electroless Copper Coating of Natural and Synthetic Textile Materials
	<i>Prof. Andrew Cobley (Latha Krishnan), Coventry University, UK</i>
13:20 - 14:20	Lunch Break

Session Continues...	
14:20 - 14:40	Title: Chemical Routes for Reaching Very Low Sheet Resistance Graphene
	<i>Giuseppe Valerio Bianco, CNR-NANOTEC, Italy</i>
14:40 - 15:00	Title: Dual Mode Electrochemical Sensing of Trace Level NH₃ for Exhaust Gas Application
	<i>Atanu Dutta, Vellore Institute of Technology, Chennai, India</i>
15:00 - 15:20	Title: New insight into physical properties of multifunctional porous glass-based nanocomposites
	<i>Agnieszka Cizman, Wrocław University of Science and Technology, Poland</i>

15:20 - 15:40	<p>Title: Zn₂SnO₄-based optoelectronic synapse device</p> <p><i>Tseung-Yuen Tseng , National Yang Ming Chiao Tung University, Taiwan</i></p>
15:40 - 16:00	<p>Title: Preparation and characterization of gelatin-based pH sensitive hydrogels for biomedical and food packaging applications</p> <p><i>Lisa Sreejith , National Institute of Technology, Calicut, Kerala, India</i></p>
16:00 - 16:20	<p>Title: From sub-nanometer to micrometer films, or how to combine ALD with PVD</p> <p><i>Carlos Guerra-Nuñez , Swiss Cluster AG, Switzerland</i></p>
16:20 - 16:40	<p>Refreshment Break</p>
16:40 - 17:00	<p>Title: TiO₂/MXene-PVA/GO hydrogel-based electrochemical sensor for neurological disorder screening via norepinephrine detection in urine</p> <p><i>Siraprapa Boobphahom , Chulalongkorn University, Bangkok, Thailand</i></p>
17:00 - 17:20	<p>Title: A State-Of-The-Art on Sisal Natural Fibres: Material, Properties and Durability</p> <p><i>Abdallah Alajmi , Kuwait Foundation for the Advancement of Sciences, Kuwait</i></p>
17:20 - 17:40	<p>Title: The application of nanomaterials in the construction industry: from self-healing to self-sensing concrete</p> <p><i>Shima Taheri, Macquarie University, Australia</i></p>
17:40 - 18:00	<p>Title: Nanostructured copper-matrix composites for high strength high electrical conductivity applications</p> <p>David Mesguich, Université Toulouse III, CIRIMAT, France</p>
18:00 - 18:20	<p>Title: Plasma-assisted modifications of polypropylene fabric for improved performance and comfort attributes</p> <p><i>Hosam El-Sayed, Textile Industries Research Division, National Research Centre, Egypt</i></p>

Scientific Program Day -2 (Oct 07, 2022)	
09:40 - 10:00	<p>Title: Analysis of the Solidus Temperature of Multicomponent Steel</p> <p><i>Toshio Fujimura , JFE Techno-Research Corporation (JFE-TEC), Japan</i></p>
10:00 - 10:20	<p>Title: Design, preparation and characterization of functional nanomaterials based on energy-resolved distribution of electron traps</p> <p><i>Bunsho Ohtani , Hokkaido University, Japan</i></p>
10:20 - 10:40	TBA
10:40 - 11:00	<p>Title: Ferromagnetic Fe₃GeTe₂/CrGeTe₃ moiré heterobilayer</p> <p><i>Eunjung Ko, Korea Institute for Advanced Study, South Korea</i></p>
11:00 - 11:20	<p>Title: An inverse QSAR method based on integer linear programming and neural networks</p> <p><i>Naveed Ahmed Azam , Kyoto University, Japan</i></p>
11:20 - 11:40 Refreshment Break	
11:40 - 12:00	<p>Title: Sterically Hindered Diarylethenes with Benzobis(thiadizole) Bridge: Enantiospecific Transformation and Reversible Photo-Superstructures</p> <p><i>Wei-Hong Zhu, East China University of Science and Technology, China</i></p>
12:00 - 12:20	<p>Title: Bayesian spectroscopy of synthesized X-ray magnetic circular dichroism spectra at the Ni-L₃, -L₂ edges</p> <p><i>Taiga Yamasaki, Kumamoto University, Japan</i></p>
12:20 - 12:40	<p>Title: Crystallization and compatibility in PP-PE blends</p> <p><i>Maria Guseva, Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences Moscow, Russia</i></p>
12:40 - 13:00	<p>Title: Influence of low temperature on mechanical properties of UFG Al-Cu-Zr alloy</p> <p><i>Sadykov Dinislam , ITMO University, Russia</i></p>
13:00 - 13:20	<p>Title: Self-lubricating mechanism of new copper-based composite</p> <p><i>Tetiana Roik , National Technical University of Ukraine, Ukraine</i></p>

13:20 - 14:20	Lunch Break
14:20 - 14:40	<p>Title: Hydro deformation in ceramic tiles at the pre-firing stage</p> <p><i>Gustavo Valdati Miranda , Unesc - Universidade do Extremo Sul Catarinense, Brazil</i></p>
14:40 - 15:00	<p>Title: Measuring thermal properties of microscopic materials through Raman spectroscopy and finite-element simulations.</p> <p><i>Emiliano Bonera, Università di Milano-Bicocca, Italy.</i></p>
15:00 - 15:20	<p>Title: Eu(III) complex sensitizer to improve electroluminescence of PQ2Ir(dpm)</p> <p><i>Muhammad S Khan , Sultan Qaboos University, Oman</i></p>
15:20 - 15:40	Speaker Slot Available
15:40 - 16:00	<p>Title: Development of bacterial biosensors based on surface-enhanced Raman scattering for multiplex detection</p> <p><i>Gustavo Bodelon , CINBIO-Universidade de Vigo, Spain</i></p>
16:00 - 16:20	<p>Title: The use of halloysite nanotubes in traditional glazes: Investigation of the effect on optical and mechanical properties</p> <p><i>Neslihan Tamsu Selli, Gebze Technical University, Turkey</i></p>
16:20 - 16:40	Refreshment Break
16:40 - 17:00	<p>Title: Identification of nanotechnology products with the use of molecular biology and photoelectron spectrometry methods</p> <p><i>Bogdan Walkowiak , Lodz University of Technology, Poland</i></p>
17:00- 17:20	<p>Title: Characterization of hafnium carbide thin film for thermal energy applications</p> <p><i>Daniela De Luca, University of Naples "Federico II", Italy</i></p>
17:20- 17:40	<p>Title: Ternary chalcogenide CuSbS₂ thin films for photoelectrochemical applications</p> <p><i>Nini Rose Mathews , Instituto de Energías Renovables- UNAM, Mexico</i></p>

17:40- 18:00	Title: Measuring photoexcited charge carrier energetics, transport, and strong electron-phonon coupling with ultrafast x-ray spectroscopy <i>Scott Keving Cushing , California Institute of Technology, USA</i>
18:00- 18:20	Title: mechanochemical incorporation of metal oxide species on α-alumina <i>Rabindra Dubadi, Kent State University, USA</i>
18:20- 18:40	Title: The Scientific Basis of Our Reactive Metals Based Civilization <i>Digby D Macdonald , University of California at Berkeley, USA</i>

18:40- 19:00	Title: Modification and potential applications of Euglena base Polysaccharide <i>Shaojun Li , Noblegen Inc., Canada</i>
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19:00- 19:20	Title: Industrial perspective on innovations in gas sensors: from one year's fundamental science to another year's product <i>Radislav Potyrailo, GE Research, USA</i>
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19:20- 19:40	Title: Reduction of Young's modulus and effect on springback <i>Chetan Nikhare , The Pennsylvania State University, USA</i>
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Closing Ceremony & Refreshment Break

Note: This is the tentative program only and the timings may be subject to change

If any one interested to attend the conference or to book your speaker slot, please send an email to

: jamesmichael@materials-science.org

**Conference Hotel:
Hotel Novotel London Wembley
5 Olympic Way, London HA9 0NP, United Kingdom.**