

# Materials Science and Nanotechnology

March 25-27, 2024, | Paris, France (Webinar)

Day 1 (March 25, 2024), Greenwich Mean Time	
09:30-10:00	<b>AV Check</b>
	<b>Keynote Talks</b>
10:00-10:30	<p><b>Title:</b> Suppression of Coke Formation during Bio-Fuel Production with Ce-Mn Incorporated Silica Microsphere Catalysts</p> <p><b>Birce Pekmezci Karaman</b>, Gazi University, Turkey</p>
10:30-11:00	<p><b>Title:</b> Geopolitical insights into the global energy transition</p> <p><b>Filippos Proedrou</b>, University of South Wales, UK</p>
	<b>Featured Talks</b>
11:00-11:25	<p><b>Title:</b> Tetrahydrocurcumin-incorporated Allantoic Acid-derived Extracellular Vesicles for Antiinflammatory Applications</p> <p><b>Man-Hua Liao</b>, National Chung Hsing University, Taiwan</p>
11:25-11:50	<p><b>Title:</b> Self-Assembled Hyaluronic Acid Nanoparticles as Potential Immunomodulators for Enhancing Immune Responses</p> <p><b>Ping-Shan Lai</b>, National Chung Hsing University, Taiwan</p>
	<b>Keynote Talks</b>
11:50-12:20	<p><b>Title:</b> Challenges for a Transitioning Electricity System</p> <p><b>Maria Anderson</b>, Linköping University, Sweden</p>
12:20-12:50	<p><b>Title:</b> Application of Discrete Wavelet Transform (DWT) in Studying Seasonal Land Surface Temperature</p> <p><b>Tahmineh Azizi</b>, Florida State University, USA</p>
12:50-13:20	<p><b>Title:</b> A platform offering data-driven high-throughput experimentation</p> <p><b>Yuhui Hou</b>, ETH Zurich, Switzerland.</p>
13:20-13:50	<p><b>Title:</b> Monte Carlo Simulation of FLASH Irradiation: Investigating Scattering Foil Material Dependencies in Modified Linear Accelerators for Nano- based OSL Dosimetry</p> <p><b>James C. L. Chow</b>, University of Toronto, Canada</p>
13:50-14:20	<p><b>Title:</b> Neodymium catalysts for polymerization of dienes, vinyl monomers, and caprolactones</p> <p><b>Somayeh Taslimy</b>, University of Texas at Dallas, USA</p>
14:20-14:50	<p><b>Title:</b> Biodegradable polycaprolactone amphiphilic diblock copolymers with enhanced drug loading capacity and toxicity evaluation through microfluidics</p> <p><b>Mihaela Corina Stefan</b>, University of Texas at Dallas, USA</p>
	<b>Featured Talk</b>
14:50-15:15	<p><b>Title:</b> Nanoparticles (NPs) Mathematical Modeling with Application in Drug Delivery</p> <p><b>Tahmineh Azizi</b>, University of Wisconsin-Madison, USA</p>
	<b>Keynote Talks</b>
15:15-15:45	<p><b>Title:</b> The comprehensive effect of urban morphology on the solar energy the potential of office buildings on block scale: real blocks and renovation design benchmark</p> <p><b>Li Gaomei, Huazhong</b> University of Science and Technology, China</p>
15:45-16:15	<p><b>Title:</b> Image-based Multiscale Modelling of Soft Materials with Short Carbon Fiber Reinforcements</p> <p><b>Aleksander Czekanski</b>, York University, Canada</p>

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16:15-16:45	<b>Title:</b> Validation of a compact new treatment electroflotafiltration system (SEFF) on turbidity and color removal
	<b>Tales Aguiar</b> , University federal of Goiás (UFG), Brazil
16:45-17:15	<b>Title:</b> Monitoring greenhouse gas emission by ultra-long open-air path dual-comb Spectroscopy
	<b>Ruocan Zhao</b> , University of Science and Technology of China, China
17:15-17:45	<b>Title:</b> From Sandcastles to Lego Blocks: Object-Oriented Climate Modeling
	<b>Sam Savage</b> : Executive Director of Probability Management.org, USA
17:45-18:15	<b>Title:</b> Photoactivated Antimicrobial Carbon Dots and Their Property-Function Correlations
	<b>Liju Yang</b> , North Carolina Central University, USA
<b>Day 2 (March 26, 2024), Greenwich Mean Time</b>	
09:30-10:00	<b>AV Check</b>
	<b>Featured Talks</b>
10:00-10:25	<b>Title:</b> Role of slow and fast traps in positive bias stress instability and its threshold voltage dependence in solution-processed aluminum-doped indium oxide thin-film transistors
	<b>Jung Hyun La</b> , Kyungpook National University, South Korea
10:25-10:50	<b>Title:</b>
	<ul style="list-style-type: none"> <li>• Biogas production from a portable biogas digester</li> <li>• Presentation title: Biga's Upgrading and Purification in South Africa</li> </ul>
	<b>Patrick Mukumba</b> , University of Fort Hare, South Africa
10:50-11:15	<b>Title:</b> Reducing Greenhouse Gas Emissions in the Hotel Industry through Renewable Energy
	<b>Ginggarn Jongsanguan</b> , Electricity Generating Authority of Thailand, Thailand
	<b>Keynote Talk</b>
11:15-11:45	<b>Title:</b> Energy Storage is Not Only Li-Ion - Overview of Israeli Innovation
	<b>Gideon Friedmann</b> , Net Zero Technology Ventures, Herzlia, Israel
	<b>Featured Talk</b>
11:45-12:10	<b>Title:</b> Unveiling Potential Horizons: A Comprehensive Feasibility Study for Successful Solar Integration and Advanced Energy Management System Projects.
	<b>Chanakan Limroscharoen</b> , Electricity Generating Authority of Thailand, Thailand
	<b>Keynote Talks</b>
12:10-12:40	<b>Title:</b> The three + 1 strategic actions to transition to a circular economy business.
	<b>Geoff Cope</b> - Chief Circular Champion / Business Development Executive, Bridgeford Group – Australia.
12:40-13:10	<b>Title:</b> The role of waterpower in decarbonizing the energy supply system
	<b>Peter Meusburger</b> , Graz University of Technology, Austria
	<b>Featured Talks</b>
13:10-13:35	<b>Title:</b> A new organic compound with medicinal and computational approaches: 2-(((2-bromophenyl) imino) methyl) -4- nitrophenol
	<b>Songul Sahin</b> , Ondokuz Mayıs University, Turkey
13:35-14:00	<b>Title:</b> Stable photoelectrochemical reactions at semiconductor/solid-electrolyte Interfaces for solar energy conversion and storage
	<b>Kanta Watanabe</b> , Tokyo Institute of Technology, Japan



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14:00-14:25	<b>Title:</b> Self-limiting stoichiometry in SnSe thin films
	<b>Jonathan R. Chin</b> , Georgia Institute of Technology, USA
	<b>Plenary Talk</b>
14:25-15:00	<b>Title:</b> Environmental Catalysis for Sustainable Technology Development
	<b>Michael Stockenhuber</b> , The University of Newcastle, Australia
	<b>Featured Talk</b>
15:00-15:25	<b>Title:</b> Investigating the relationship between the mechanical properties of plasma polymer-like thin films and their glass transition temperature
	<b>Damien Thiry</b> , Université de Mons, Belgium
	<b>Plenary Talk</b>
15:25-16:10	<b>Title:</b> Exploring graphene quantum dots as photosensitizing agent
	<b>Paulo Cesar DE MORAIS</b> , Catholic University of Brasília, Brazil
<b>Note:</b>	
	<ul style="list-style-type: none"><li>Slight changes in the Program may arise due to technical issues or no-shows, presenters are requested to stay available on the entire day of the presentation.</li></ul>
	<ul style="list-style-type: none"><li>Conference timings are GMT+00 London</li></ul>