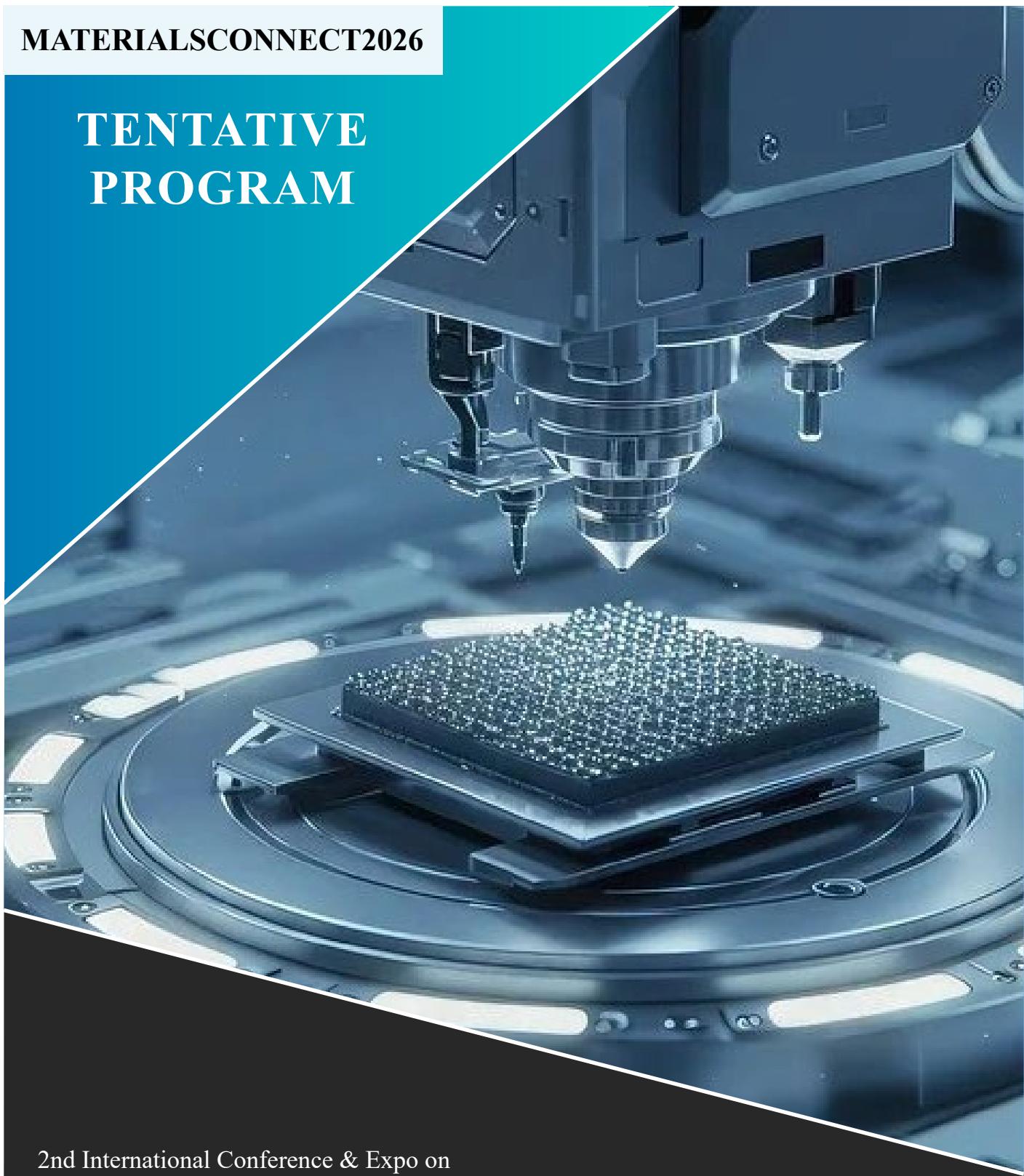


MATERIALSCONNECT2026

## TENTATIVE PROGRAM



2nd International Conference & Expo on

# MATERIALS SCIENCE AND ENGINEERING

April 20–22, 2026 | Osaka, Japan

## DAY-01 | Monday April 20, 2026

09:00- 09:30	Registrations
09:30-09:40	Opening Ceremony
<b>Award sponsorship in collaboration with the Journal of Polymer Science and Engineering and Characterization and Application of Nanomaterials</b>	
<b>PLENARY SESSION</b>	
09:40-10:20	<b>Title:</b> Advanced Material Innovations for Electromagnetic Shielding and Radar Signature Reduction of Drones and UAVs  <b>Tomas Zalabsky</b> , University of Pardubice, Czech Republic
10:20-11:00	<b>Title:</b> Flexible Organic Electrochromic Devices Having Multicolored, Low-Voltage-Driven and High Contrast, and Organic Photovoltaic Properties Based on Oligomers and Viologen Derivatives  <b>Ping Liu</b> , South China university of Technology, China
11:00-11:15	<b>Coffee Break</b>
11:15-11:55	<b>Title:</b> Surface Properties And Solvent Transport In Ion-Irradiated Polydimethylsiloxane  <b>Sanboh Lee</b> , National Tsing Hua University, Taiwan
11:55-12:35	<b>Title:</b> Clusters of Nanocompartments Mimicking Natural Organelles for Medical Applications  <b>Cornelia G. Palivan</b> , Nanjing University, China
<b>KEYNOTE SESSION</b>	
12:35-13:05	<b>Title:</b> Plasma as an Environmentally Friendly Technique for Modifying the Surface Properties of Polymer Materials  <b>Sanja Ercegovic Razic</b> , University of Zagreb, Croatia
13:05-13:10	<b>Group Photo</b>
13:10-14:10	<b>Lunch Break</b>
14:10-14:40	<b>Title:</b> Introduction to the Hyper-Exponential Function  <b>Uchida Keitaroh</b> , Open University, Japan
14:40-15:10	<b>Title:</b> Modeling Computational Fluid Dynamics with Quantum Physics Informed Neural Networks" of "Computational Modelling and Simulation in Material Science  <b>Hubert Kolcz</b> , Warsaw University of Technology, Poland
15:10-15:40	<b>Title:</b> Modulation phototherapy for Cancer by Metallbased Medication  <b>Igor Reshetov</b> , Sechenov University, Russia
15:40-16:10	<b>Title:</b> Development of a Portable Long Wave Infrared Hyperspectral Camera based on a Low Order Scanning Fabry-Pérot Interferometer  <b>Anders C L Jorgensen</b> , Newtec Engineering A/S, Denmark

16:10-16:30	Coffee Break	
16:30-17:00	<b>Title:</b> AI-Guided Design of Functional Materials: From Thermoelectrics to Data-Driven Spectroscopy	K
	<b>Victor Posligua</b> , National University of Singapore, Singapore	
17:00-17:25	<b>Title:</b> Fluorene-Bithiophene Based Fluorophore For High-Resolution Latent Finger Print Detection	I
	<b>Dhanya Sunil</b> , Manipal Institute of Technology, India	
17:25-17:50	<b>Title:</b> Study Of Low Temperature Thermoelectric Performance of Samarium Doped Cu <sub>2</sub> SnSe <sub>3</sub> System	I
	<b>Ashok Rao</b> , Manipal Institute of Technology, India	
<b>End of the Day 1</b>		

DAY-02   Tuesday April 21, 2026			
PLENARY SESSION			
10:00-10:40	<b>Title:</b> History of Nitride Semiconductors	P	
	<b>Takashi Matsuoka</b> , Tohoku University, Japan		
10:40-11:20	<b>Title:</b> Role of Piezoelectric Materials in SAW Devices	P	
	<b>Bestley Joe S</b> , SRM Institute of Science & Technology, India		
11:20-11:30	Coffee Break		
INVITED SESSION			
11:30-11:55	<b>Title:</b> Salt-Concentrated Crosslinked Poly(Ethylene Carbonate/Ethylene Oxide) Solid Polymer Electrolyte for Lithium-Ion Batteries	I	
	<b>Nantapat Soontornnon</b> , Tokyo University of Agriculture and Technology, Japan		
11:55-12:20	<b>Title:</b> Green Magnetic Solid Phase Extraction with Hydrophobic Deep Eutectic Solvents for Simultaneous Analysis of NSAIDs, Sulfonamides, and Estrogens in Farm-Area Effluents by HPLC-DAD		
	<b>Nur Nadhirah Mohamad Zain</b> , Universiti Sains Malaysia, Malaysia		
12:20-12:45	<b>Title:</b> Computational Design of Energy Materials: Phosphide Catalysts for HER and p-Block–Doped Graphite for Redox-Flow Batteries		
	<b>Natalia Podrojtkova</b> , Pavol Jozef Šafárik University in Košice, Slovakia		
12:45-13:00	Group Photo		
13:00-14:00	Lunch Break		
Digital Workshop			
14:00-15:30	<b>Title:</b> Keynote Talk and Digital Workshop on Cradle to Cradle Design Innovations	K	
	<b>Albin Kaelin</b> , Epeaswitzerland gmbh, Switzerland		

## Poster Presentations (15:30-16:40)

<b>Title:</b> Technology and Dielectric Properties of Multicomponent PZT Type Ceramics Modified with Rare Earth Elements	PP
<b>Dagmara Brzezinska</b> , University of Silesia, Poland	
<b>Title:</b> Three-Component Multiferroic Ceramic Composites; Technology and Electrophysical Properties	PP
<b>Dariusz Bochenek</b> , University of Silesia, Poland	
<b>Title:</b> Emerging Functional and Smart Materials for Next-Generation Textiles: Structure, Properties, and Applications	PP
<b>Zizhuo Nie</b> , Aimer Co., Ltd, China	
<b>Title:</b> Effect of Acrylic Acid and (Hydroxyethyl)Methacrylate Monomers on the Properties of G/Cnt Hybrid Composites	PP
<b>Marija Prosheva</b> , Ss. Cyril and Methodius University in Skopje, North Macedonia	
<b>Title:</b> Enhancing Smart Building Infrastructure with Graphene Reinforced EMI Shielding Composites	PP
<b>Iva Dimitrievska</b> , Ss. Cyril and Methodius University in Skopje, North Macedonia	
<b>Title:</b> Organic Electrolytes as a Pathway to Sustainable Redox Flow Batteries	PP
<b>Veronika Niscakova</b> , Pavol Jozef Šafárik University in Košice, Slovakia	
<b>Title:</b> Understanding the Impact of Polysulfide–Additive Interactions on the Performance of Li–S Batteries	PP
<b>Jakub Lescinsky</b> , Pavol Jozef Šafárik University in Košice, Slovakia	
<b>Title:</b> The Changing Landscape of Concrete Bridge Health Monitoring: A Decade of Developments and Trends	PP
<b>Shilpa Sunil</b> , Manipal Institute of Technology, India	
<b>Title:</b> Exploring Mesophase Behavior in Pyridine based H-bonded Liquid Crystals	PP
<b>Poornima Bhagavath</b> , Manipal Institute of Technology, India	
<b>Title:</b> Effect of Poly(acrylic acid) Ionization on Surface Interaction of Silicone Hydrogel Contact Lenses	PP
<b>Moon Hyun Chung</b> , Interajo INC, South Korea	

### Delegate/Listener

**Jacob Becker-Christensen**, Linking Industry to Neutrons and X-rays, Denmark

D/L

**A few presentation slots are still available**

**We will update Day 3 program soon**