



# Scientific Program

## 3rd International Virtual Summit on Materials Science and Engineering April 17-18, 2025 | Online Conference

### Materials Science Summit 2025

April 17, 2025

Time: 10:00 AM | Online Conference | Time Zone: GMT+1 (London, UK)

10:00-10:05

Opening Ceremony

#### Keynote Speaker Session

10:05-10:30

Title: Molecular insights into the growth and dissociation of double CO<sub>2</sub>+TBAB hydrate for energy storage and release

Kairan Yang, Shanghai Jiao Tong University, Shanghai, China

10:30-10:55

Title: Evaluation of the Depth of Cure by Microhardness of Bulk-Fill Composites with Monowave and Polywave LED Light-Curing Units

Socratis Thomaidis, National and Kapodistrian University of Athens, Greece

10:55-11:20

Title: Statistical thermodynamic model for calculation of the self-diffusion parameters in metals

Serhii Bobyr, Uppsala University, Sweden

#### Plenary Speaker Session

Sessions

Materials Science and Engineering | Electrochemistry | Industrial Chemistry & Applied | Materials Chemistry | Magnetic Materials | Graphene and 2D Materials

Session  
Chairperson

Socratis Thomaidis, National and Kapodistrian University of Athens, Greece

11:20-11:45

Title: Hydrogen, Ammonia and E-fuels in Chemical/Catalytic Energy Storage

Blaz Likozar, University of Delaware, United States.

11:45-12:10

Title: Natural Silk Fibroin waste, a new material for Tissue Engineering

	Valeria Elizabeth Bosio, National University of La Plata, Argentina
12:10-12:35	<b>Title: A Novel Organic–Inorganic-Nanocomposite-Based Reduced Graphene Oxide as an Efficient Nanosensor for NO<sub>2</sub> Detection</b> Pooya Gholami, Petroleum and Gas Eng, Semnan University, Iran
12:35-13:00	<b>Title: Advances towards environmental sustainability in cellulose-derived battery separators</b> Tayse Circe Turossi, University of Caxias do Sul, Francisco Getúlio Vargas St., Brazil
13:00-13:25	<b>Title: Solving a weather-sensitive inventory model using Goat search algorithm and Oyster collection algorithms</b> Suman Maity, Raja Narendra Lal Khan Women's College, W.B., India
13:25-13:50	<b>Title: Estructuras vulnerables ante movimientos sísmicos</b> Yessica Zuleika Vargas Atencio, Miviot/Sistema Nacional de Protección Civil, Panama
13:50-14:15	<b>Title: Seeing is believing: Unraveling Gold Nanoparticles Genotoxicity via 4D Atomic Force Microscopy</b> Hosam Gharib Abdelhady, Sam Houston State University, USA
14:15-15:00	Poster Speaker Session
P001	<b>Title: Comparative Studies on Grain Quality and Pesticide Residues in Maize Stored in Hermetic and Polypropylene Storage Bags</b> Samuel Kofi Nyarko, University of Science and Technology, Ghana
P002	<b>Title: Insights into the Corrosion Inhibition Performance of Isonicotinohydrazide Derivatives for N80 Steel in 15% HCl Medium: An Experimental and Molecular Level Characterization</b> Abdelkarim Ait Mansour, University Ibn Zohr, Morocco
Closing & Award Ceremony	
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