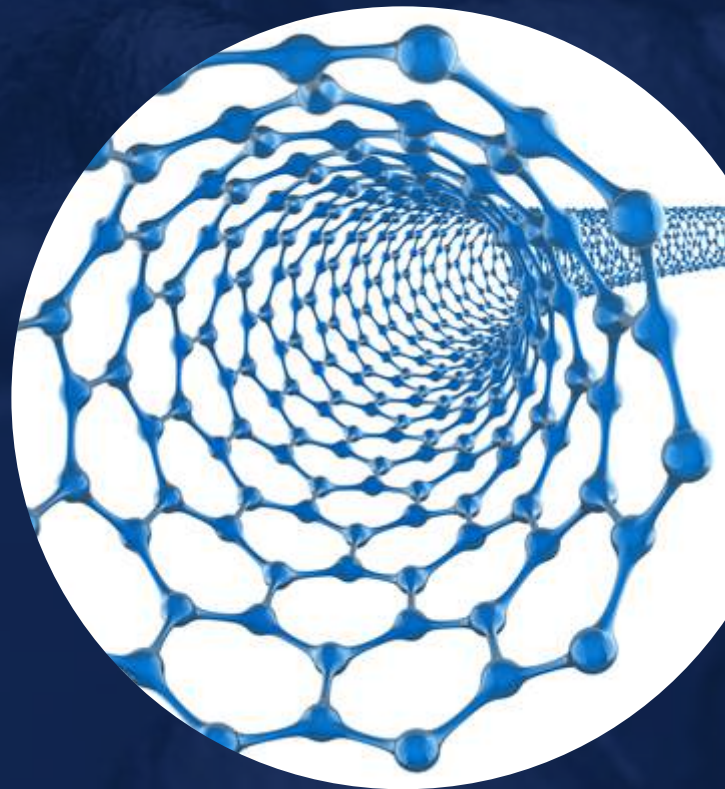




AGENDA

**SCHOLARS INTERNATIONAL CONFERENCE ON
ADVANCED MATERIALS
SCIENCE AND ENGINEERING**

**NOVEMBER 25-26, 2021
ONLINE | VIRTUAL**



Organizer

John Dixon

Program Director | Advanced Materials 2021

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<https://scholarsconferences.com/advancedmaterials/>

PROGRAM

Day 1 | November 25, 2021

11:00-18:00 (GMT)

KEYNOTE FORUM

11:10-11:40 GMT

Osman Adiguzel, Firat University, Turkey

Title: Thermomechanical and Thermo-responsive Reactions in the Reversibility of Shape Memory Alloys

11:40-12:10 GMT

Irmgard Frank, Leibniz Universität Hannover, Germany

Title: How chemistry leads to deterministic quantum mechanics

12:10-12:40 GMT

Bunsho Ohtani, Institute for Catalysis, Hokkaido University, Japan

Title: Design, Preparation and Characterization of Photofunctional Materials Based on Energy-resolved Distribution of Electron Traps

12:40-13:10 GMT

Joseph Merola, Virginia Polytechnic Institute and State University, USA

Title: Making Effective and Selective Homogenous Catalysts with "Off-the-Shelf" Components

13:10-13:25 - Refreshments Break

KEYNOTE FORUM

13:25-13:55 GMT

Marc Pera-Titus, Cardiff University, UK

Title: Catalysis on Particle-Stabilized Bubbles

13:55-14:25 GMT

Horia Metiu, University of California, USA

Title: Hydrogen manufacture without CO₂

PROGRAM

Day 1 | November 25, 2021

11:00-18:00 (GMT)

SCIENTITIF SESSIONS

14:25-14:45 GMT

Yuri Tulchinsky, Hebrew University of Jerusalem, Israel

Title: Sulfonium Cations as Phosphine Analogs

14:45-15:05 GMT

Ayaskanta Sahu, New York University, Tandon School of Engineering, USA

Title: 2D Transition Metal Dichalcogenide Nanosheets with Single Atom Dopants as Efficient Catalysts for Hydrotreating

15:05-15:25 GMT

Fahri Akalin, ITU/YDO, Turkey

Title: eCAT-COAT TECHNOLOGY Novel Catalytic Applications

15:25-15:45 GMT

Bright Kusema, Solvay, China

Title: Selective hydrogenation of aliphatic amides to amines over heterogeneous catalysts

15:45-16:00 - Refreshments Break

16:00-16:20 GMT

Martin Kotora, Charles University, Czech Republic

Title: Design, Synthesis, and Properties of Indenofluorenes

16:20-16:40 GMT

Geun Ho Gu, KAIST, Republic of Korea

Title: AI Enhanced Computational Catalysis Science

16:40-17:00 GMT

Karina Torres-Rivero, Universitat Politècnica de Catalunya (UPC) - BarcelonaTECH, Spain

Title: Sustainable Silver and Gold Nanoparticles for the Functionalization and Electrocatalytic Enhancement of Screen Printed Electrodes

PROGRAM

Day 1 | November 25, 2021

11:00-18:00 (GMT)

SCIENTIFIC SESSIONS

17:00-17:20 GMT

Lohit Sharma, Lehigh University, USA

Title: High selectivity of Sn-modified alumina for propane dehydrogenation under H₂S treatment and co-feed

17:20-17:40 GMT

Athule Ngqalakwezi, Advanced Materials Division, Mintek, South Africa

Title: Study of the N-doping effect in graphene nanocomposite for hydrogen storage applications

17:40-18:00 - B2B Meetings and Networking

Day 2 | November 26, 2021

11:00-18:00 (GMT)

KEYNOTE FORUM

11:10-11:40 GMT

Annemie Bogaerts, University of Antwerp, Belgium

Title: Plasma technology for electrification of chemical reactions

11:40-12:10 GMT

Maurizio Benaglia, Università degli Studi di Milano, Italy

Title: Flow chemistry, organocatalysis and 3D-printing: Valuable tools in the synthesis of chiral compounds

12:10-12:40 GMT

Nataša Novak Tušar, National Institute of Chemistry and University of Novo Gorica, Slovenia

Title: Engineering photocatalysts for clean air

12:40-13:10 GMT

Jose C Conesa, Instituto de Catálisis y Petroleoquímica, Spain

Title: Sulfide-based photocatalysts using visible light - A review

13:10-13:25 - Refreshments Break

PROGRAM

Day 2 | November 26, 2021

11:00-18:00 (GMT)

13:25-13:45 GMT

Lan Guan, Texas Tech Univeristy Health Sciences Center, USA

Title: Cooperative binding mechanism is the core of co-transport catalyzed by melibiose transporter MelB

13:45-14:05 GMT

Simona Liguori, Clarkson University, USA

Title: Metallic Membranes for Highly Intensified Ammonia Synthesis

SCIENTITIF SESSIONS

14:05-14:25 GMT

Marita Piglowska, Poznan University of Technology, Poland

Title: Carbon-silicon hybrid as anode material in energy sources

14:25-14:45 GMT

Erde Can Safak, Yeditepe University, Turkey

Title: Copolymers of poly(propylene fumarate) with phosphonic acid-based monomers designed as bone tissue engineering scaffolds

14:45-15:05 GMT

Christian Paglia, Supsi imc, Switzerland

Title: Mechanical properties and environmental degradation in high strength aluminum alloys

15:05-15:25 GMT

Pooja Shandilya, Shoolini University, India

Title: Highly efficient dual step-scheme Bi₂WO₆/Fe₂O₃/WO₃ heterojunction for the photodegradation of bisphenol-A

15:25-15:45 GMT

Jie Gao, University of Oklahoma, USA

Title: Polysaccharide Chemistry and Rheology

15:45-16:00 - Refreshments Break

16:00-16:20 GMT

Xiaoming Miao, Wuxiapptec, China

Title: Kinetic selection in the out-of-equilibrium autocatalytic reaction networks that produce macrocyclic peptides

PROGRAM

Day 2 | November 26, 2021

11:00-18:00 (GMT)

16:20-16:40 GMT

Sara Kawrani, Lebanese American University, Lebanon

Title: Enhancement of photoelectrochemical performance of (CCTO) using different nanosheets, graphene oxide and boron nitride

16:40-17:00 GMT

Cayleigh O'Hare, Illinois Mathematics and Science Academy, USA

Title: Designing a multi-material nerve graft utilizing novel biofabrication techniques to promote peripheral nerve regeneration in injuries greater than 5 cm

17:00-17:20 GMT

Sourav Biswas, State University of New York, USA

Title: Heterogeneous Oxidation Catalysis: A Sustainable Route for Fine Chemical Production

17:20-17:40 GMT

Avinash B Lende, National Tsing Hua University, Taiwan

Title: Hydrogenation of Polyethylene Terephthalate to Environmentally Friendly Polyester by the Heterogenous Catalyst

17:40-18:00 GMT

Sree Pradipta Roy, University of Wisconsin Milwaukee, USA

Title: Asymmetric Reduction of Carbonyl on Clean and Chirally Modified Single Crystal Model Pd and Pt Catalysts

17:40-18:00 - B2B Meetings and Networking

Upcoming Conference



**Scholars World Congress on
Material Science and Engineering**

Rome, Italy | May 23-24, 2022

<https://scholarsconferences.com/materials-science/>