SCHOLARS INTERNATIONAL CONFERENCE ON
ADVANCED MATERIALS
SCIENCE AND ENGINEERING

NOVEMBER 25-26, 2021
ONLINE | VIRTUAL

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https://scholarsconferences.com/advancedmaterials/
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 Thermoresponsive 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
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
Day 1 | November 25, 2021

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

11:10-11:40 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, organoatalysis 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 University 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

SCIENTIFIC 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
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