PROGRAMME FOR THE FLASH PRESENTATIONS

Monday, 17 June 2024

16:15 **Arumugam Lakshman Sundar**
A highly stable $BiVO_4$/Polycarbazole Heterojunction for Improved Photoelectrochemical Water splitting

16:19 **Marzieh Bagheri**
Revolutionizing Water Electrolysis: Designing a Noble Metal Free Anode for Sustainable Hydrogen Production from Lignin Derivatives

16:23 **Maria Giuseppina Bruno**
Electrochemical Sensor based on Prussian Blue for Hydrogen Peroxide Detection in Exhaled Breath

16:27 **Alejandro Ariza-Pérez**
Solketal synthesis through glycerol photo-acetalization using a WO_3 catalyst

16:31 **Janek Betting**
Understanding bimetallic SnPd catalysts for NO3-reduction through in-situ controlled surface deposition preparation

16:35 **Tristan Cabanis**
Operando study of isopropanol dehydration to propylene: an energetical approach

16:39 **Martim Chiquetto Policano**
Shape-dependent activity of Pd/CeO2 nanorods, nanocubes, and nano-octahedrons on lean methane oxidation

16:43 **Thomas Dimur**
Alkaline-earth metal hydrogenation catalysts: Experimental and Theoretical study

16:47 **Perla H. García-Ríos**
Pd-complex catalyzed cyclocarbonylation of bio-based methyl vinyl glycolate

16:51 **Marouane Bouremah**
InP/ZnS quantum dots for sustainable and efficient photocatalytic redox systems

16:54 **Hector Moine**
Cascade of reactions in aqueous phase: study of synergies and antagonisms of hybrid catalytic systems

16:58 **Edgardo Leal-Villarroel**
Pt Single atoms and/or Nanoparticles on Titania Nanotubes: What is Better for Catalysis?

17:02 **Sonia Carbone**
Fabrication and Characterization of a ternary alloy of Ni-Fe-P for alkaline electrolyzer

17:06 **Brent Daelemans**
Upscaling the reductive depolymerisation of lignin: optimising process conditions through catalyst characterisation

17:10 **Aurelien Durupt**
Fischer-Tropsch synthesis by CO2 hydrogenation on modified Co/TiO_2 catalysts

17:14 **Jacques Gilbert**
Building Integrated Carbon Capture

17:18 **A. Piccoli**
Electrochemical CO2 reduction with metal-pincer catalysts

17:22 **Ran Liu**
Catalytic Oxidation Desulfurization of Dibenzothiophene by Bronsted-Lewis Acid Ionic Liquids

17:25 **LinLin Yang**
Brookite TiO2 Nanorods as Promising Electrochromic and Energy Storage Materials for Smart Windows

17:29 **Benjamin Louis**
Design of novel catalysts bearing s-heptazine-based ligand for electrocatalytic CO2 reduction reaction

17:33 **Maria Carmen Herrera-Beurnio**
Carbon nitride-based systems for the ecological transition

17:37 **Pummarin Khamdahsag**
Quality improvement of arsenite-contaminated surface raw water for consumption using a household-size K-OMS2 filter unit

17:40 **Karol V. Mejia-Centeno**
Eelectrochemical oxidation of biomass for sustainable production of chemicals and hydrogen: glucose oxidation reaction (GOR)

17:43 **Emut Sukma Sejati**
Development and optimisation thin film M-N-C-type Catalysts for the Oxygen Reduction Reaction

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16:00 **Naresh Killi**
Gel-bounded Organocatalyst for Baylis-Hillman reaction in Continuously Driven Microfluidic Reactor

16:04 **Samantha Lemos**
DFT study on In_2O_3 surface functionalization towards selective hydrogenation reactions

16:08 Gen Li
Insights into the Hydrodeoxygenation (HDO) Reaction Mechanism of Guaiacol on Ni_2P Catalyst Surface

16:12 **Yilin Luo**
Ni-based catalysts for the dry reforming of methane for the development of multi-fuel SOFC electrodes

16:16 **Bao-Ngan Nguyen-Ha**
Formation of C1 Products in the CO_2 Electroreduction by Cu_9Pd Cluster Catalyst: unravelling Reaction Mechanism Insights

16:20 **Catarina Lopes**
Catalytic degradation of 4-fluorophenol for a greener future

16:24 **Alessio Massaro,**
3D printing and integration of catalytic nanomaterials in flow cell reactors

16:28 **Martijn Mekkering**
Kinetic testing of stable platinum dimers for hydrogen release

16:32 **Dmytro Nikolaievskyi**
Direct Preparation of Palladium Catalysts by Extraction of E-waste Leachates

16:35 **Ana Rita Querido**
Enhancing CO_2 valorization in methanol with bimetallic catalysts supported on carbon materials

16:39 **Abdul Halim Obeid**
Mechanistic Studies and Applications of Novel Iron(II)-Catalyzed Positional and Geometrical Transposition of Alkenes

16:43 **Ngoc-Anh Thai**
Cu and ZnO nanoparticles supported on MWCNTs as nanocatalysts for selective N-formylation using CO_2 and H_2

16:47 **William Mendes Godoy**
Estimating the Reactivities of Acidic Polymeric Resins Through Mathematical Modelling of Chain Sequences Distribution

16:50 **Lok Nga Poon**
Probing of BDFEs of surface Pd-H across solvent environments and applications thereof

16:54 **Ozge Selcuk**
Mechanistic Investigation of H_2-deNOX Over Pt/W/ZrO_2 Catalysts

17:58 **Alexander Stook**

Stabilizing high oxidation state metals on hierarchical metal oxides for Deoxydehydration reaction

17:02 **Sarttrawut Tulaphol**
Development of heterogenous Lewis-Bronsted acid catalyst from rubber tire waste for biochemical production from biomass

17:06 **Rodrigo Valderrama-Zapata**
Kinetic analysis of hydrogen transfer processes during the catalytic hydrodesulfurization of dibenzothiophene

17:10 **Lorena Šimunić**
LPMO-inspired Artificial Metalloenzymes for waste valorization

17:14 **Giang Tran**
Synthesis and Photocatalytic Properties of Plasmonic Nanoparticles

17:18 **Wilmer Esteban Vallejo Narváez**
Catalytic reduction of carbon dioxide using N-Doped Graphene

17:22 **Maria Helena Sá**
CO_2 as feedstock for value-added chemicals: Highlights and challenges of catalysts

17:25 **Ren He**
A 3d-4d-5d high entropy alloy as a bifunctional oxygen catalyst for robust aqueous zinc-air batteries

17:29 **Han Wang**
Identifying benchmark catalysts for the deoxydehydration of biomass derived polyol molecules

17:33 **Amrita Singh-Morgan**
Tin dendrite electrocatalyst for carbon dioxide reduction to formic acid in acidic media with a 3D-printed hybrid flow-cell

17:37 **Xiaotong Zhao**
Enhanced CO_2 absorption and reverse water gas shift reaction using CaO in NaCl-$CaCl_2$ molten salt medium

17:40 **Kikaru Tabata**
Electrochemical valorization of HMF using Ni-based electrodes

17:44 **Xuan Lu**
Ga promotion of $ZrCeO_4$ doped with Cu for CO2 hydrogenation to methanol

17:47 **Seema Shafiq**
Interfacial Ionic Liquid based Nanocatalysts for Sustainable Chemistry

17:50 **Hooman Ghazi Zahedi**
Synthesis of Transition Metal Phosphide Nanoparticles under Mild Conditions