PROGRAMME FOR THE FLASH PRESENTATIONS

Monday, 17 June 2024

16:15	Arumugam Lakshman Sundar A highly stable BiVO4/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 WO₃ 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/TiO₂ catalysts

Summer School	Catalysis: from understanding to applications June 17-21, 2024 - Albi
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
17:28	Benjamin Louis Design of novel catalysts bearing s-heptazine-based ligand for electrocatalytic CO2 reduction reaction
17:31	Maria Carmen Herrera-Beurnio Carbon nitride-based systems for the ecological transition
17:34	Pummarin Khamdahsag Quality improvement of arsenite-contaminated surface raw water for consumption using a household-size K-OMS2 filter unit
17:37	Karol V. Mejia-Centeno Eelectrochemical oxidation of biomass for sustainable production of chemicals and hydrogen: glucose oxidation reaction (GOR)
17:40	Emut Sukma Sejati Development and optimisation thin film M-N-C-type Catalysts for the Oxygen Reduction Reaction
17:43	Fernando Gómez Zamorano A new aluminum complex based on a novel imine-amidine ligand for conversion of CO ₂ to cyclic carbonates

New cytochrome P450 mimics for biomass valorization

High-Loading Pd-Phthalocyanine Covalent Organic Framework based SACs for Cross-

Edelberto Oscar Niola

Murad Najafov

Coupling Reactions

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Tuesday, 18 June 2024

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 Ni₂P Catalyst Surface
16:12	Yilin Luo <i>Ni-based catalysts for the dry reforming of methane for the development of multi-fuel SOFC electrodes</i>
16:16	Bao-Ngan Nguyen-Ha Formation of C1 Products in the CO ₂ Electroreduction by Cu ₉ Pd 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 <i>LPMO-inspired Artificial Metalloenzymes for waste valorization</i>
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 CO2 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