

Scientific Program

3rd Webinar on Catalysis, Chemical Engineering & Technology

Thursday
June 24, 2021

Day 1 - June 24, 2021 - British Time

12:00 - 12:15 Introduction

Oral Presentations

12:15 - 12:40 Surface adsorption - biocatalysis via immobilized phospholipase D to produce phosphatidylserine without toxic organic reagents
Binglin Li, Northwest University, China

12:40 - 13:05 Chemo-enzymatic synthesis of L - menthol
Gang Xu, Zhejiang University, China

13:05 - 13:30 Electrocatalytic transformation of biomass for chemicals and fuel production as climate change mitigation strategies
Chun Ho Lam, City University of Hong Kong, Hong Kong

Lunch (13:30 - 14:00)

14:00 - 14:25 Teaching iron to perform like palladium in cross coupling reactions
Jordi Poater, Universitat de Barcelona, Spain

14:25 - 14:50 Influence of heterocyclic ligands on catalytic properties of oxovanadium(IV) complex compounds in olefin oligomerization
Joanna Drzeżdżon, University of Gdansk, Poland

14:50 - 15:15 Supercritical water gasification with lignocellulosic biomass waste as the feedstocks - Economic analysis of noncatalytic SCWG at 600°C versus catalytic SCWG at 400°C
Chai Siah Lee, University of Nottingham, United Kingdom

15:15 - 15:40 Rosemary essential oils as a promising source of bioactive compounds: Chemical profile, biological activity, thermal properties, and possibility of utilization as antioxidant agent
Saša Đurović, Institute of General and Physical Chemistry, Serbia

15:40 - 16:05 Artificial metalloenzymes based on vancomycin for stereoselective catalysis in aqueous media
Facchetti Giorgio, University of Milan, Italy

16:05 - 16:30 A highly efficient two - step "Green" process for (-) ambrifuran production
Lucia Steenkamp, CSIR, South Africa

16:30 - 16:55 Purple non - sulfur photosynthetic bacteria as a source of biohydrogen and bioplastics
Eleftherios Touloupakis, National Research Council, Italy

16:55 - 17:20 Preparative redox transformations of carbonyl compounds catalyzed by the whiterot fungi
Tatyana Zhuk, Justus Liebig University Giessen, Germany

17:20 - 17:45 Liver - targeting class I selective histone deacetylase inhibitors potently suppress hepatocellular tumor growth as standalone agents
Bocheng Wu, Georgia Institute of Technology, USA

17:45 - 18:10 Swelling kinetics and thermal properties of hydrogels composed of n - butyl acrylate and isobornyl acrylate
Ahlam Benkhelifa, University of Tlemcen, Algeria

End of Day 1 Sessions

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Friday
June 25, 2021

Day 2 - June 25, 2021 - British Time

Keynote Presentation

12:00 - 12:30 Curcumin as a novel reducing and stabilizing agent for the green synthesis of metallic nanoparticles for their catalytic applications
Digambara Patra, American University of Beirut, Lebanon

Oral Presentations

12:30 - 12:55 Photoelectrochemical reduction of N₂ to NH₃ under ambient conditions through hierarchical MoSe₂@g - C₃N₄ heterojunctions
Muhammad Asim Mushtaq, Beijing University of Chemical Technology, China

12:55 - 13:20 Composite nanofibers for improved photocatalytic performance under UV and visible light irradiation
Mirela Suche, Hellenic Mediterranean University, Greece

Lunch (13:20 - 13:45)

13:45 - 14:10 *Typha angustifolia*, a beneficial plant for waste water treatment
I.C. Covaliu, Polytechnic University of Bucharest, Romania

14:10 - 14:35 Biocatalytic approach for direct esterification of Ibuprofen with sorbitol in biphasic media
Federico Zappaterra, University of Ferrara, Italy

14:35 - 15:00 Composite core @ shell microgel particles for catalytic reduction of toxic nitroarenes
Khalida Naseem, University of Central Punjab, Pakistan

15:00 - 15:25 Towards an ideotype for food-fuel dual-purpose wheat in Argentina
Maria Mercedes Echarte, National Institute of Agricultural Technology, Argentina

15:25 - 15:50 Biologically plant - based pigments in sustainable innovations for functional textiles – The role of green chemistry
Alka Madhukar Thakker, Heriot - Watt University, UK

15:50 - 16:15 Removal persistent pollutants by Fenton systems: Enhancing degradation by bio - based chelating agents
Romina Romero, Universidad de Tarapacá, Chile

Keynote Presentation

16:15 - 16:40 Tailoring diffusive pathways and thermal expansion in Ti - alloys
Matthias Bönisch, KU Leuven Leuven, Belgium

Poster Presentations

16:40 - 16:50 Catalytic activity of plasma - prepared thin films based on mixed cobalt and iron oxides in CO₂ conversion to CO
Ryszard Kapica, Lodz University of Technology, Poland

16:50 - 17:00 Catalytic activity of tungsten - containing thin films deposited by plasma enhanced chemical vapor deposition method
Aleksandra Kędzierska - Sar, Lodz University of Technology, Poland

17:00 - 17:10 Biologically plant - based pigments in sustainable innovations for functional textiles – The role of bioactive plant phytochemicals
Alka Madhukar Thakker, Heriot - Watt University, United Kingdom

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Oral Presentation

17:10 - 17:30 Novel Glycosylated Histone Deacetylase Inhibitors For Targeted Treatment Of Hepatocellular Carcinoma
Bocheng Wu, Georgia Institute of Technology, USA

Video Presentations

17:30 - 17:45 Surfactant - free colloids: Greener syntheses for nanoparticle and nanocatalysts
Jonathan Quinson, University of Copenhagen, Denmark

17:45 - 18:00 Greenhouse covering plastics films waste management: A case - study GIS - based model
Monica Parlato, University of Catania – Di3A, Italy

End of Day 2 Sessions