

# Scientific Program

Global Webinar on

## Chemistry and Applied Sciences

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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## Chemistry and Applied Sciences

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  $N_2$  to  $NH_3$  under ambient conditions through hierarchical  $MoSe_2@g - C_3N_4$  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  $CO_2$  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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## Chemistry and Applied Sciences

**Friday**  
**June 25, 2021**

### 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