

European Congress on

Chemistry and Applied Sciences

March 20-21, 2023

Belstay Roma Aurelia, Rome, Italy



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Conference Programme

Day 1: March 20, 2023

March 20-21, 2023, Belstay Roma Aurelia, Rome, Italy

Day 1, March 20, 2023

Meeting Hall: Parioli 1

8.30 - 9.00

Registrations

9.00 - 9.15

Introduction

Keynote Presentations

9.15 - 10.00

Stanislaw Dzwigaj, Sorbonne Université, France

Title: Application of Metal Single-Site Zeolite Catalysts in Heterogenous Catalysis

10.00 - 10.45

Sahn Nahm, Korea University, South Korea

Title: Growth of Crystalline NaNbO_3 Thin Film on $\text{Sr}_2\text{Nb}_3\text{O}_{10}$ Template at Low Temperatures for Piezoelectric Thin Film Energy Harvester

Group Photo: 10.45 - 11.00

Networking and Refreshments @ Bar: 11.00 - 11.20

Oral Presentations

Session Chair:

Stanislaw Dzwigaj, Sorbonne Université, France

Sessions: Catalysis for Chemical Synthesis | Chemical Engineering | Catalysis and Energy | Organocatalysis | Catalysis and Zeolites | Catalysis and Pyrolysis | Organometallics Chemistry | Catalysis in Nanotechnology | Catalysis and Applications | Biocatalysis and Biotransformations | Computational Catalysis | Surface and Colloidal Phenomenon | Photo catalysis and Electrochemistry | Enzymes and Biocatalysts | Fluid dynamics & its Phenomena | Catalysis for Renewable sources | Polymer for Science and Technology | Thermal Catalysis | Catalysis in Oil & Gas and Petrochemical Engineering | Environmental Catalysis | Catalytic Materials & Mechanisms | Enantioselective Catalysis | Industrial Catalysis | Simulation and Modeling in Catalysis

11.20 - 11.45

Višnja Vrdoljak, University of Zagreb, Croatia

Title: Geometrically Constrained Molybdenum (VI) Metallosupramolecular Architectures: Synthesis, Structure, and Properties

11.45 - 12.10

Jianli Hu, West Virginia University, USA

Title: Co-Processing of Biomass-Methane- CO_2 for Hydrogen Production

12.10 - 12.35

Gabriele Micheletti, University of Bologna, Italy

Title: Naphtoquinone Derivatives as Potential Anticancer Compounds

12.35 - 13.00

Suni Rodriguez, University of Basque Country, Spain

Title : Study of the Synergy between VGO and HDPE Pyrolysis Waxes in the Hydrocracking over NiW-Y Zeolites Catalysts

Lunch @ Seguimi: 13.00 - 14.00

14.00 - 14.25

Subhadip Ghosh, National Institute of Science Education and Research, India

Title: Perovskite Nanocrystals- Novel Material for Real Applications

14.25 - 14.50

Alexandra Jakab Nácsa, BorsodChem Zrt., Hungary

Title : Classification of Catalysts with MIRA21 Model in Heterogeneous Catalytic Hydrogenation of Aromatic Nitro Compounds

14.50 - 15.15

Su-Hwan Go, Korea University, South Korea

Title: Piezoelectric Properties of the [001]-Textured (Na, K)NbO₃-Based Lead-Free Piezoceramics and their Application to Piezoelectric Energy Harvesters

15.15- 15.40

Sudip Barman, NISER- Bhubaneswar, India

Title : Metal Nanostructures for Electrochemical Energy Conversion and Storage

15.40 - 16.05

Seokjune Chae, Korea University, South Korea

Title: Enhancement of Electromechanical Coupling Factor of the (Na, K)(Nb_{1-x}Sb_x)-SrZrO₃-(Bi, Ag)ZrO₃ Piezoceramics for Piezoelectric Energy Harvester

Networking and Refreshments @ Bar: 16.05 - 16.30

16.30 - 16.55

Alberto Ubaldini, ENEA, Italy

Title: Synthesis and Characterization of Borate Nanoparticles

16.55 - 17.20

Hamza Chanouri, Mohammed VI Polytechnic University, Morocco

Title: Integrated Valorisation of Phosphogypsum using pH Dependent Purification Process

17.20 - 17.45

Nurul Huda Abdul Wahab, Universiti Malaysia Terengganu, Malaysia

Title: Extended Study on Data Analysis For Investigating Chemical Profiles from MeOH Crude of Euphorbia Mili Flowers Applying GC-MS

17.45 - 18.10

Fawzi M. Elfghi, Libyan Petroleum Institute, Libya

Title: Combined Application of Response Surface Methodology (RSM) and Artificial Neural Network (ANN) based on Experimental Design (DOE) in Modeling and Optimization HDS Activity

18.10 - 18.35

Anasse Sraidi, Mohammed VI Polytechnic University, Morocco

Title: Recovery of Rare Earth Elements from Phosphoric Acid using Ion Exchange Resin

Day Concludes

Day 2: March 21, 2023

Meeting Hall: Parioli 1

Keynote Presentation

10.00 - 10.45

Blaz Likozar, Kemijski Inštitute, Slovenia

Title: Hydrogen, Ammonia, CCU and beyond – Electrification of Industrial Unit Operations

Oral Presentations

Session Chair:

Višnja Vrdoljak, University of Zagreb, Croatia

Sessions: Organic Chemistry | Inorganic Chemistry | Food Science | Forensic Science | Agricultural Sciences | Computer Sciences | Renewable Energy | Medicinal Chemistry | Physical Chemistry | Analytical Chemistry | Material Science | Nanomaterials | Chemical Engineering | Green Chemistry | Polymer Chemistry | Industrial Chemistry | Natural Products and Peptide Chemistry | Marine & Petro Chemistry | Catalysis | Applied Chemistry | Metallurgy | Geochemistry | Food Chemistry

10.45 - 11.10

Belkacem Merzouk, University of M'sila, Algeria

Title: Evaluation of the Efficiency of Coagulation-Flocculation Process for Treatment of Textile Wastewater using Anatural Flocculant - Cactus *Opuntia Ficus Indica*

11.10 - 11.35

Tofik Nagiev, Azerbaijan National Academy of Sciences, Azerbaijan

Title : New Approaches to Simulation of Enzymatic Reactions: Mimetic Catalysis

Networking and Refreshments @ Bar: 11.35 - 12.00

12.00 - 12.25

Taghreed M. A. Jazzazi, Yarmouk University, Jordan

Title: New Schiff Base Ligands and their Corresponding Zinc Complexes. Synthesis, Characterization and Computational Study

12.25 - 12.50

Madhumita Dandopath Patra, Acharya Prafulla Chandra College, India

Title: Understanding Protein-Sugar Interactions Using Molecular Modeling Techniques

Lunch @ Seguimi: 12.50 - 13.50

Poster Presentations (13.50 - 16.00)

PP001

E A Jaseer, KFUPM University, Saudi Arabia

Title : Solvent-Free Iridium-Catalyzed Synthesis of Silyl Carbamates from the Reaction of Amines with Carbon Dioxide and Hydrosilanes

PP002

Ujuagu Akunna Frances, Tohoku University, Japan

Title: Designing a Light-Up Peptide Probe as an FID Assay Indicator for RNPs

PP003

Niladri Maity, KFUPM University, Saudi Arabia

Title : Silica-Supported Monoalkylated Tungsten Dioxo Complex Exhibits Catalytic Olefin Metathesis Reaction

PP004

Slavica Marinović, INA – Industrija nafte PLC, Croatia

Title: Diamondoid Hydrocarbons as Maturity Indicators for High Maturity Crude Oils and Condensates

PP005

Nestor Garcia Villalta, KFUPM University, Saudi Arabia

Title : Aryl-Di(Pyridil) Pyrrole Group IV Complexes as Catalyst in Ethylene Polymerization

PP006

Kai Dollevoet, Charles River Laboratories, Netherlands

Title: The Applicability of Rotational Viscosity within the Scope of Safety Assessment of Agrochemicals

PP007

Sathiyamoorthy Murugesan, KFUPM University, Saudi Arabia

Title : Surface Modified Mesoporous Materials for Petrochemical Refining Processes

PP008

Alessio Pelucelli, Università di Sassari, Italy

Title: Biological Effects of Human Exposure to Environmental Cadmium

PP009

Iwan Iwanov, University of Chemical Technology and Metallurgy, Bulgaria

Title: Catalytic Transformation of Ribose to Furfural in Presence of HCl

PP010

Arancha Saiz Valderrama, University of Basque Country, Spain

Title: LTA Packed Bed Membrane Reactors for DME Synthesis from CO₂ and CO₂/CO_x Mixtures: Crystallization of the Membrane

PP011

Krzysztof Moraczewski, Kazimierz Wielki University, Poland

Title: The Use of After Printing Process Waste as a Filler for Polymer Materials

PP012

Mory Traore, University of Science and Technology Beijing, China

Title: Enhanced Oil Removal and Reduction of Activated Sludge by Ozonation Efficiency of a New Microbubble Generator

PP013

Mirna Biondić, INA – Industrija nafte PLC, Croatia

Title: Paraffin Wax in Petroleum Industry: A Review on Formation, Experimentation, Prevention, and Removal Techniques

PP014

Dan Gowland, University of Edinburgh, UK

Title : LED-Driven Photocatalytic Oxidation Technology for Water Purification

PP015

Abdelhak Mesbah, Djillali LIABES University (UDL), Algeria

Title: Retention Study of an Organic Persistent Molecule by Surfactant Clay Composite (Clay-C18Tab)

Networking and Refreshments @ Bar: 16.00 - 16.30

16.30 - 16.55

Alberto Ubaldini, ENEA, Italy

Title: A Characterization Of Na₂Mo₄, Na₂W₄ and their Solid Solution

16.55 - 17.20

Fabián Espitia-Almeida, Universidad Simón Bolívar, Colombia

Title: Synthesis and Antibacterial Photodynamic Activity of the New Photosensitizer 5,10,15,20-Tetrakis(4-Ethylphenyl)Porphyrin

Video Presentation

VP001

Tatyana Ryazanova, Samara State Medical University, Russia

Title: Application of Ethylcellulose-based Sorbent for Solid-Phase Extraction for Quantitative Determination of Benzoic acid in Medicinal Products

Day 2 Concludes followed by Panel Discussion - Awards & Closing Ceremony

Conference Programme

Virtual Programme

March 20-21, 2023, Virtual Program

Day 1 March 20, 2023 GMT (London Time: 10.00 - 16.25)

Keynote Presentation

10.00 - 10.30

Muhammad Atiqullah, KFUPM University, Saudi Arabia

Title: Making Ethylene-Alpha Olefin Elastomer: Investigation of Liquid Phase Catalyst Active Center Residential Environment and New Results

Oral Presentations

10.30 - 10.55

Ravichandran, Lovely Professional University, India

Title: Environmental Friendly Plastic Waste Management

10.55 - 11.20

Prerna Sharma, Guru Gobind Singh College of Pharmacy, India

Title: The Pharmacological Activity of Tulsi (*Ocimum sanctum*)

11.20 - 11.45

Basharat Hussain, Chung Yuan Christian University, Taiwan

Title: Free-Metal Catalyst of Layered Double Hydroxide/PET polymer for Efficient Thermomechanical and Barriers

11.45 - 12.10

Tadios Tesfaye Mamo, Taiwan University, Taiwan

Title: Waste-Based Nanocatalysts for Biofuel (Biodiesel) Production

12.10 - 12.35

Meena Nemiwal, Malaviya National Institute of Technology, India

Title: Chloroaluminate $[\text{HN}_{222}][\text{Al}_2\text{Cl}_7]$ Ionic Liquid Immobilized on the Copper (II) Oxide Nanoparticles $\{\text{CuO}[\text{HN}_{222}][\text{Al}_2\text{Cl}_7]\}$ Used in Case Study of Chan-Evans-Lam Coupling approach

12.35 - 13.00

Daria Nekhorosheva, National Research University Higher School of Economics, Russia

Title: Potential of Green Chemistry in Smart Cities' Renewable Energy

Lunch (13.00 - 13.30)

13.30 - 13.55

Eleonara Butenko, Azov Sea State Technical University, Ukraine

Title: Retroaldol Cleavage over Layer Double Hydroxides: Effect of Metal Components on Selectivity and Activity

13.55 - 14.20

Jyoti Rajput, Lovely Professional University, India

Title : Emerging Technology of laser beat wave electron acceleration in vacuum

14.20 - 14.45

Faryal Idrees, The University of the Punjab, Pakistan

Title: Synthesis and Characterizations of MoS₂/Wo₃ Heterostructures for Efficient Photocatalytic Efficiency

14.45 - 15.10

Mexis D, National And Kapodistrian University Of Athens, Greece

Title: Effect of A 6 Week Preseason Training Program on Salivary Biomarkers in Elite Basketball Athletes

15.10 - 15.35

Isaac Yissa Aaron, University of Ilorin, Nigeria

Title: Metal-Organic Coordination Compounds of Manganese(II) Containing Terephthalate, Bipyridine, and Terpyridine Ligands: Syntheses, Crystal Structures and Catalytic Oxidation Properties

15.35 - 16.00

Haibo Ge, Texas Tech University, USA

Title: Distal Functionalization via Transition Metal Catalysis

16.00 - 16.25

Orlando Elguera Ysnaga, Universidade de São Paulo, Brazil

Title: Review of Research Topics for Scaling-up of Sonochemical Reactors (Sono-Reactors)

Day 1 Concludes

Day 2 March 21, 2023 GMT (London Time: 10.00 - 13.45)

Keynote Presentations

10.00 - 10.30

Siquan Feng, Chinese Academy of Science, China

Title: Sulfur-Poisoning on Rh Nanoparticle but Sulfur-Promotion on Single-Rh₁-site for Carbonylation

10.30 - 11.00

Tokeer Ahmad, Jamia Millia Islamia, India

Title: Nanocatalysis for Hydrogen Generation

Oral Presentations

11.00 - 11.25

Felix Panis, University Of Vienna, Austria

Title: Tyrosinases in Wetlands: Global Contributors to Climate Change!

11.25 - 11.50

Rajesh Kumar, R.D.S. College (B.R.A. Bihar University), India

Title: Biocatalyst Mediated Synthesis of Modified Nucleosides

11.50 - 12.15

Muhammad Umer Sohail, Institute of Space Technology, Pakistan

Title: Effect of Secondary Combustion on Thrust Regulation of Gas Generator Cycle Rocket Engine

12.15 - 12.40

Labode Stevenson Naitchede, Institute for Basic Sciences, Technology, and Innovation, Kenya

Title: Transcript Expression Level Analysis of Phytoene Synthase and Phytoene Desaturase Associated with β -Carotene Content and Genetic Transformability in Bitter Melon

12.40 - 13.05

Prem Kumar Jaiswal, Retired Director Of Labs, India

Title: National Food Control System in India

13.05 - 13.30

Sandip Kumar Lahiri, National Institute of Technology, India

Title: Artificial Intelligence Based Modelling and Optimization of Catalyst in Real Industrial Plant to Simultaneously Enhance Profit and Reduce Negative Environmental Impact

13.30 - 13.55

Viacheslav Artyushenko, Art Photonics GmbH, Germany

Title: Chemical Process-Control in line with 4 Methods of Fiber Spectroscopy

13.55 - 14.20

Eleonora Aneggi, University of Udine, Italy

Title: Heterogeneous Fenton-Like Process over Steel Scale waste for the Treatment of Landfill Leachate

Poster Presentation

14.20 - 14.35

Ali Zeinodiny, Tarbiat Modares University, Iran

Title: Investigating the Performance of Spinel Materials MgX_2O_4 ($x=Mn, Ni, Co$) as Potential Cathodes in Magnesium-Ion Batteries

Day 2 Concludes Followed by Vote of Thanks

Forthcoming Events

International Conference on **Biomaterials and Biodevices**

September 25-26, 2023 | Paris, France



2nd International Conference on **Neurology and Brain Disorders**

November 2-3, 2023 | London, UK



International Conference on **Hematology and Blood Disorders**

November 6-7, 2023 | Paris, France



European Conference on **Human Genetics**

November 6-7, 2023 | Paris, France



International Conference on **Gynecology and Obstetrics**

November 6-7, 2023 | Dubai, UAE



International Conference on **Biomedical Science and Engineering**

November 6-8, 2023 | Dubai, UAE



International Conference on **Clinical Case Reports**

November 8-9, 2023 | Dubai, UAE



2nd International Conference on **Materials Science & Engineering**

November 8-9, 2023 | Dubai, UAE



2nd European Congress on **Chemistry and Applied Sciences**

November 9-10, 2023 | Paris, France



2nd International Conference on **Catalysis & Chemical Engineering**

November 9-10, 2023 | Paris, France



European Congress on **Renewable Energy and Sustainable Development**

November 16-17, 2023 | Rome, Italy



European Congress on **Biopolymers and Bioplastics**

November 16-17, 2023 | Rome, Italy



2nd International Conference on **Nanomaterials and Nanotechnology**

November 20-21, 2023 | Vienna, Austria



2nd European Congress on **Microbiology**

November 20-21, 2023 | Vienna, Austria



2nd International Conference on **Infectious Diseases**

November 20-21, 2023 | Vienna, Austria



2nd International Conference on **Addiction & Psychiatry**

November 20-21, 2023 | Vienna, Austria

