

FINAL PROGRAM

VIRTUAL EVENT

28-29

MARCH 2022

10TH EDITION OF
GLOBAL CONFERENCE ON

**CATALYSIS, CHEMICAL
ENGINEERING AND
TECHNOLOGY**

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DAY 01

MONDAY, MARCH 28

KEYNOTE PRESENTATIONS

GMT Timings	Local Timings	
09:30-10:00		AV Check
10:00-10:10		Introduction
10:10-10:50	11:10-11:50	Stanislaw Dzwigaj, Sorbonne University, France Title: Chemical Engineering of metal single-site zeolites for application in heterogeneous catalysis
10:50-11:30	18:50-19:30	Buxing Han, Chinese Academy of Sciences, China Title: Conversion of biomass and CO ₂ into valuable chemicals and fuels
11:30-12:10	14:30-15:10	Saim Ozkar, Middle East Technical University, Turkey Title: How to increase the catalytic efficacy of platinum-based nanocatalysts for hydrogen generation from the hydrolysis of ammonia borane
12:10-12:50	15:10-15:50	Osman Adiguzel, Firat University, Turkey Title: Crystallographic basis of thermal and mechanical memory in shape memory alloys

ORAL PRESENTATIONS

12:50-13:10	20:50-21:10	Md Nurul Islam Siddique, University Malaysia Terengganu, Malaysia Title: Application of additional nutrients on bio-methane generation from anaerobic digestion of agricultural waste: Viability & fertilizer recovery
13:10-13:30	21:10-21:30	Nur Nadia Dzulkifli, Universiti Kebangsaan, Malaysia Title: Synthesis, characterization and corrosion inhibition study on 2-chloroacetophenone 4-ethyl-3-thiosemicarbazone: Weight loss and DFT methods
13:30-13:50	19:00-19:20	Ashanendu Mandal, University of Calcutta, India Title: Adsorptive removal of toxic phenol from industrial wastewater to reduce water pollution
13:50-14:10	19:20-19:40	Tulshi Shiyani, Asiatic Institute of Science & Technology, India Title: Solar photoelectrochemical energy conversion
14:10-14:30	19:40-20:00	Bijoy Biswas, CSIR-Indian Institute of Petroleum (IIP), India Title: Catalytic hydrothermal liquefaction of macroalgae for the production of higher ester functional compounds
14:30-14:50	20:00-20:20	Meera Yadav, North Eastern Regional Institute of Science and Technology, India Title: Oxidoreductase-metalloenzymes: Catalysis in Green Chemistry domain
14:50-15:10	20:20-20:40	Neha Choudhary, IIT INDORE, India Title: New mechanistic pathways for direct carboxylation by employing CuNi bimetallic nanocatalyst

KEYNOTE PRESENTATIONS

15:10-16:10	08:10-09:10	Alexander G. Ramm, Kansas State University, United States Title: Solution of the Navier-Stokes equations
16:10-16:50	12:10-12:50	Anne M Gaffney, University of South Carolina, United States Title: Plastic trash to monomers and intermediates – PTMI

ORAL PRESENTATIONS

16:50-17:10	22:20-22:40	Prashanth S Adarakatti, Department of Chemistry, India Title: Electrochemical sensing of mercury(II) using a nickel ferrite/graphitic carbon nitride nanocomposite modified screen-printed electrode as one-shot disposable sensor
17:10-17:30	22:40-23:00	Binitha N Narayanan, Calicut University, India Title: Green synthesis of CeO ₂ /graphene nanocomposite for cyclohexene epoxidation
17:30-17:50	18:30-18:50	Jie Xu, INSA Rouen Normandie, France Title: Biobased novolac resins cured with DGEBA using water-insoluble fraction of wood pyrolysis bio-oil: Synthesis and characterization
17:50-18:10	18:50-19:10	Salima Bouteraa, University of Sciences And Technology of Oran - USTO, Algeria Title: Study on structure and photocatalytic activity of lanthanum-containing mixed metal oxide derived from ZnFe- layered double hydroxides: An outstanding strategy for promoting visible light in indigo carmine photodegradation
18:10-18:30	22:40-23:00	Elnaz Asghari, University of Tabriz, Iran (Islamic Republic of) Title: Novel non-noble metal-based catalysts for renewable hydrogen production from seawater electrolysis
18:30-18:50	19:30-19:50	Pawel Weronki, J. Haber Institute of Catalysis and Surface Chemistry, Poland Title: Roughness spectroscopy of particle monolayer: Implications for spectral analysis of the monolayer image
18:50-19:10	19:50-20:10	Carina B Maliakkal, Karlsruhe Institute of Technology, Germany Title: Layer growth dynamics in compound nanowires studied by in-situ microscopy
19:10-19:30	16:10-16:30	Orlando Elguera, Institute of Chemistry of Sao Carlos, Brazil Title: Review of research topics for scaling-up of sonochemical reactors (sono-reactors)

DAY 02

TUESDAY, MARCH 29

KEYNOTE PRESENTATIONS

GMT Timings	Local Timings	
09:30-10:00		AV Check
10:00-10:40	15:30-16:10	Saroj Kumar Singh, CSIR-Institute of Minerals and Materials Technology, India Title: Metal oxide modified silicon carbide nanocomposites
10:40-11:20	19:40-20:20	Dong Pyo Kim, Pohang University of Science And Technology, Korea, Republic of Title: Scalable subsecond synthesis of drug scaffolds by numbering-up 3D-printed metal microreactor
11:20-12:00	07:20-08:00	Byong H Lee, McGill University, Canada Title: Biocatalysis of fermentation derived probiotic enzymes and their commercial applications
12:00-12:40	05:00-05:40	Francisco Zaera, University of California, United States Title: New nanostructures for increased selectivity and stability in catalysis

POSTER PRESENTATIONS

12:40-12:50	07:40-07:50	Carlos Ruben Suarez Gavidia, National University of San Marcos, Peru Title: Production of high-quality CuNi thin films using magnetron sputtering
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ORAL PRESENTATIONS

12:50-13:10	23:50-00:10	Haimei Xu, Macquarie University, Australia Title: Mesoporous zirconium oxophosphate catalyzed phenylglyoxal conversion
13:10-13:30	22:10-22:30	Rahat Javaid, National Institute Of Advanced Industrial Science And Technology, Japan Title: Synergistic effect of Ru/CeO ₂ /MgO catalyst on ammonia synthesis
13:30-13:50	21:30-21:50	Ji Wang, Ningbo University, China Title: The extended galerkin/rayleigh-Ritz method for approximate solutions of nonlinear vibration equations
13:50-14:10	19:20-19:40	Sudip Kumar Das, University of Calcutta, India Title: Scale-up design for adsorption process
14:10-14:30	19:40-20:00	Arvind Kumar Yadav, B. R. D. P. G. College, India Title: Visible light triggered beta-allylation of indoles using baylis- hillman bromides
14:30-14:50	20:00-20:20	Pavan More, Institute of Chemical Technology, India Title: Complete oxidation of CO and propene as model component of diesel exhaust and VOC using manganese oxide supported on octahedral (AlO ₆ ³⁻)-Ce ³⁺

14:50-15:10	20:20-20:40	Mridusmita Barooah, National Institute of Technology, India Title: High performance gas separation studies by membrane technology
15:10-15:30	21:10-21:30	Ahsan Habib, University of Dhaka, Bangladesh Title: Synthesis of solar light driven nanorod-zinc oxide for degradation of rhodamine B, industrial effluent and contaminated river water
15:30-15:50	20:00-20:20	Farzin Asghari Sana, Urmia University of Medical Sciences, Iran (Islamic Republic of) Title: Boron doped nano hydroxyapatite: Antibacterial and synergistic effect with beta lactame antibiotics
15:50-16:10	20:20-20:40	Davood Fathi, Tarbiat Modares University, Iran (Islamic Republic of) Title: Catalysts in water-splitting
16:10-16:30	11:10-11:30	Rommel Hans Ortiz Guzman, National University of San Marcos, Peru Title: Evaluation by simulation of the reactor design to obtain urea from natural gas
16:30-16:50	16:30-16:50	Farid Aiouache, Lancaster University, United Kingdom Title: Relevance of synergetic approaches in intensifying catalytic reactors
16:50-17:10	17:50-18:10	Mohammed M Bettahar, Lorraine University, France Title: The hydrogen spillover effect: Fundamental aspects
17:10-17:30	13:10-13:30	Kaustubh Laturkar, Michigan State University, United States Title: Analysis of the ethanol and benzene extractive distillation using p-xylene as solvent in a cape-open simulator
17:30-17:50	20:30-20:50	Tshepo Duncan Dipheko, Peoples' Friendship University of Russia, Russian Federation Title: Ethanol dehydrogenation over carbon supported (K)(Co, Ni, Fe)MoS ₂ -based catalysts
17:50-18:10	20:50-21:10	Ozcan Koysuren, Energy Engineering Department, Turkey Title: The effect of iron doping on the photocatalytic efficiency of SiC nanofibers and their composite with polyaniline
18:10-18:30	21:10-21:30	Ashiff Khan, Saudi Aramco, Saudi Arabia/ SP Jain School of Global Management, Australia Title: Adoption of big data by global chemical industries
18:30-18:50	19:30-19:50	Morgan Donnard, CNRS – University of Strasbourg, France Title: Captodative Enamides: From controlled syntheses to original heterocycles

KEYNOTE PRESENTATIONS

18:50-19:30	19:50-20:30	Ahmet Haxhijaj, University of Mitrovca, Kosovo Title: Benefit of management of zinc concentrates in trepca
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UPCOMING CONFERENCES

11th Edition of International Conference on
Catalysis, Chemical Engineering and Technology

May 16-17, 2022 | Virtual Event

<https://catalysis-conferences.com/>

12th Edition of Global Conference on
Catalysis, Chemical Engineering & Technology

September 5-7, 2022 | Paris, France

<https://catalysis-conferences.magnusgroup.org/>

13th Edition of International Conference on
Catalysis, Chemical Engineering and Technology

October 21-22, 2022 | Orlando, FL, USA

<https://catalysiscongress.com/>

14th Edition of Global Conference on
Catalysis, Chemical Engineering and Technology

March 13-14, 2023 | Singapore

<https://catalysis.magnusconferences.com/>

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