

Goint Event on CATALYSIS, CHEMICAL ENGINEERING AND GREEN CHEMISTRY

22-23 May, 2023

Jokyo, Japan



ANA Crowne Plaza Narita 68, Horinouchi, Narita-Shi, Chiba, 286-0107, Tokyo, Japan



CONFERENCE PROGRAM

Date	Time Zone	Hall Name
22-May-23	Japan Standard Time (JST)	Orchid B
23-May-23	Eastern Time (EDT)	Virtual Room 1
23-May-23	Eastern Time (EDT)	Virtual Room 2
23-May-23	Eastern Time (EDT)	Virtual Room 3

- The first day (May 22) of the program will take place in-person and will be scheduled according to the Japan Standard Time.
- The second day will be virtual presentations scheduled according to the Eastern time zone.
- Slight changes in Program may arise due to technical issues or no shows, presenters are requested to stay available on the entire day of presentation.
- When the program refers to Local Timings, it means that the timing mentioned is based on the time zone of the presenter's country.



MAY 22, 2023 Monday

KEYNOTE PRESENTATIONS

JST Time Zone

@ORCHID B

08:00-08:50 | Registrations

Moderator:

08:50-09:00 | Opening Ceremony and Introduction

Rohit Kumar, Indian Institute of Technology (Banaras Hindu University), India

Sessions on:

Catalysis, Chemical Engineering and Technology

09:00-09:30

Christine Hahn

Texas A&M University-Kingsville, United States Title: Development of an efficient acid-free palladium(II) catalyzed hydroarylation of acetylene

09:30-10:00

Venko Beschkov

Bulgarian Academy of Sciences, Bulgaria Title: Catalytic carbon dioxide recycling to chemical products in fuel cells

ORAL PRESENTATIONS

Chair:

Christine Hahn, Texas A&M University-Kingsville, United States

10:00-10:20

Hagsoo Kim

Fine Chemical Materials Technology Research Center, Korea Title: Development of air-stable oxysulfide-based solid electrolytes green technology

10:20-10:40

Anna Wenda-Piesik

PBS Bydgoszcz University of Science and Technology, Poland Title: The organic nGMO soybeans as a raw material in soy milk innovation production

Group Photo

10:40-11:00 | Coffee Break @Foyer

11:00-11:20

Rohit Kumar

Indian Institute of Technology (Banaras Hindu University), India Title: Evaluation of hydrotaicite-derived Ni catalysts for tri-reforming of methane process for ${\rm CO_2}$ conversion

11:20-11:40

Dariusz Piesik

PBS Bydgoszcz University of Science and Technology, Poland Title: Induction of volatile organic compounds in wheat plants following infection by different rhizoctonia pathogens

11:40-12:00

Debjani Nag

Tata Steel Limited, India

Title: Role of catalyst in metallurgical industry

12:00-12:20

Nattaphon Hongrutai

Chulalongkorn University, Thailand Title: Time-evolving growth of 3D-nanocrystalline carbon from the electro-reduction of acetic acid with in-situ electrodeposited Ag at ambient conditions

12:20-12:40

Ashkan Bahadoran

Chinese Academy of Sciences, China Title: High-entropy transition-metal sulfide nanoparticles deposited on ultra-thing-C₃N₄nanosheets for efficient CO₂ photoreduction

12:40-13:00

Donghee Lee

Saint-Petersburg Mining University, Russia Title: A study on cascade cycle natural gas liquefaction process using polar sea temperature

13:00-13:40 | Lunch Break

KEYNOTE PRESENTATIONS

Sessions on:

Green Chemistry and Renewable Energy

13:40-14:10

Kenji Sorimachi

Dokkyo Medical University, Japan Title: Strategy for climate crisis: An artificial forest model

14:10-14:40

Hossam A Gabbar

Ontario Tech Unviversity, Canada communities

Title: Advances in plasma-based waste treatment for sustainable

14:40-15:10

Anthony Halog

The University of Queensland, Australia

Title: Advancing (environmental) life cycle analysis for green chemistry and sustainable future



ORAL PRESENTATIONS

15:10-15:30

Arkadiusz Dyjakon Wrocław University of Environmetal and Life Sciences, Poland

Title: Bioenergy cooperatives as a sustainable solution of households heating in rural areas using local biomass resources

15:30-15:50

Olivier Coulembier University of Mons-Umons,

Title: The organocatalysis: An efficient tool in ring-opening polymerization-valuable interests of DBU & TBD superbases

15:50-16:10

Belgium

Long Yu

Henan Academy of Sciences, China Title: Development of starch-based materials and applications

16:10-16:30

Debashrita Mahana CSIR National Physical Laboratory, India

Title: Development and characterization of CuO and ZnO/CuO based CO gas sensors

16:30-16:50

Helmi Hamdi Qatar University, Qatar Title: Agricultural reuse of gas-to-liquid sludge to promote fiber crop cultivation under extreme desert conditions

16:50-17:10

Diana Rakhmawaty Eddy Universitas Padjadjaran, Indonesia

Title: Synthesis of TiO2 (anatase-brookite)/Ag2O/Ag2CO3 composites for photodegradation of metformin under visible light

17:10-17:30

Vandana Sakhre

Manipal University, United Arab Emirates Title: Synthesis of bioplastics and their characteristics

17:30-17:50 | Coffee Break @Foyer

(17:30-17:50) POSTER PRESENTATIONS

PP01

Chen-Wei Liu

Industrial Technology Research Institute, Taiwan Title: Development of chemical recycling method for circularity of thermoset composite waste

PP02

Hao Dang

Tsinghua University, China

Title: Using electric field to regulate the flow of nano-confined liquid

PP03

Yu-Chuan Liu

Taipei Medical University, Taiwan plasmon-activated water

Title: Enhanced hydrogen and oxygen evolution reactions utilizing pure

PP04

Fu-Der Mai

Taipei Medical School, Taiwan

Title: Green energy production via active pure water with reduced

hydrogen bonds

PP05

Long Yu

Henan Academy of Sciences,

China

Title: Development of slow releasing fertilizer with water retention

function using starch-based hydrogel



MAY 23. 20 Tuesday

KEYNOTE PRESENTATIONS

@VIRTUAL ROOM 01

EDT Timings Local Timings

05:30-06:00 EDT | AV check

Moderator:

Shweta Vyas, University of Kota, India

06:00-06:30 12:00-12:30

Stanislaw Dzwigaj Sorbonne University, France Title: Application of metal single-site zeolite catalysts in heterogeneous

catalysis

06:30-07:00 16:00-16:30

Tokeer Ahmad

Jamia Millia Islamia, India

Title: Designing materials for nanocatalysis

Marta Litter

University of General San Martin, Title: TiO₂ photocatalytic removal of hexavalent chromium and arsenic

Argentina

07:30-08:00 15:00-15:30

Yarub Al-Douri

American University of Iraq, Iraq

Title: Optoelectronic characterization of quaternary alloy

ORAL PRESENTATIONS

08:00-08:20 14:00-14:20

Mohammed M Bettahar Lorraine University, France

Title: The hydrogen spillover effect influencing parameters

08:20-08:40 21:20-21:40

Vempuluru Navakoteswara Rao Korean Institute of Science and

Technology, Korea

Title: Monodispersed core/shell nanospheres of ZnS/NiO with enhanced H₂ generation and quantum efficiency at versatile photocatalytic

conditions

08:40-09:00

18:10-18:30

Varadhan S R

Netaji IAS Academy, India

Title: FTIR band interpretation of hydrocarbon oils and oil spill

identiciation

EDT Timings Local Timings

Xin Cui Mississippi State University,

Title: Selective and sustainable catalysis for transforming C-H bonds

United States

Orlando Elguera National University of Engineering, Peru

Title: Review of research topics for scaling-up of sonochemical reactors (sono-reactors)

09:40-10:00 08:40-09:00

Haibo Ge Texas Tech University, United States

Title: Distal functionalization via transition metal catalysis

10:00-10:20 17:00-17:20

Gheorghe ViorelGas and Petroleum University,
Romania

Title: Growth kinetic of sclp-cultures for CBM and toxicological risk assessment

10:20-10:40 19:50-20:10

Tulshi Shiyani Saurashtra Research Institute, India

Title: Solar fuel generation using hybrid electrodes

10:40-11:00 20:10-20:30

Bandyopadhyay Sujoy Indrashil University, India Title: Conjugated porous organic polymers: Fluorescence-based sensing, photocatalysis and energy storage

11:00-11:20 20:30-20:50

Suresh C Ameta Paher University, India Title: Photocatalysis: An emerging approach for conservation of environment

11:20-11:40 18:20-18:40

Vasily Ivanovich Lutsyk Russian Academy of Sciences, Russia

Title: Phase diagrams 3D computer models as a novel tool to design the catalytic materials

11:40-12:00 21:10-21:30

Jeevan dontulwar Shri Mathuradas Mohota College of Science, India

Title: Synthesis and applications of biodegradable polymers based on starch and dextrin

EDT Timings **Local Timings**

12:00-12:20 21:30-21:50

University of Kota, India

Shweta Vvas Title: Agrowaste-based nano-biosorbent for removal of cadmium ions (Cd

II) from aqueous media

12:20-12:40 00:20-00:40

Zhao Shidong China University of Petroleum

Title: Kinetics of hydrogenation of dibenzyltoluene as hydrogen storage

carrier

12:40-13:00 17:40-18:00

(East China), China

Fouad El Mansouri Abdelmalek Essaadi University, Title: Efficient removal of eriochrome black T dye using activated carbon of waste hemp (Cannabis Sativa L.) grown in northern morocco enhanced

by new mathematical models

POSTER PRESENTATION

13:00-13:10 20:00-20:10

Serhiy Pyshyev

Morocco

Lviv Polytechnic National University, Ukraine

Title: Methods of used tire recycling with the aim of commercial fuels

obtaining





MAY 23. 20 Tuesday

KEYNOTE PRESENTATIONS

@VIRTUAL ROOM 02

EDT Timings Local Timings

Moderators:

05:30-06:00 EDT | AV check

Divya Tripathy, Galgotias University, India Chitra, CSIR- National Physical Laboratory, India

06:00-06:30 20:00-20:30

Leon Burgess

Technology Director CalAlSil, Australia

Title: CalAlSil® feldspar polymers - sustainable, high-performance structural nanomaterials

06:30-07:00 12:30-13:00

Donatella Termini University of Palermo, Italy

Title: Vegetation as sustainable green material

07:00-07:30 12:00-12:30

Belchior Rocha Helena

ISCTE-University Institute of Lisbon, Portugal

Title: Health and environmental risks to cities

07:30-08:00 17:00-17:30

Madhusudan Hiraman Fulekar Parul University, India

Title: Climate change: Mitigation of green house gases in control

environment

Anne M Gaffney

University of South Carolina, United States

Title: Plastic trash to monomers and intermediates - PTMI

ORAL PRESENTATIONS

08:30-08:50 20:30-20:50

Yuehua Li

University of Science and Technology Beijing, China Title: Mass transfer in porous media and the technique of water-heat management for proton exchange membrane fuel cells

08:50-09:10 20:50-21:10

Jinsong Wu

Guilin University of Electronic Technology, China

Title: Environmental sustainability and intelligence as well as general green technologies

09:10-09:30 22:10-22:30

Dai-Yeun Jeong

Jeju National University, Korea

Title: Carbon neutrality as a strategy responding to climate change

09:30-09:50 19:00-19:20

V B Murali Krishna

National Institute of Technology Andhra Pradesh, India

Title: An experimental study on electric generators for small-scale renewable energy systems

09:50-10:10 19:20-19:40

Ashanendu Mandal University of Calcutta, India Title: Removal of phenol from wastewater using biological and industrial wastes as adsorbents

10:10-10:30 16:10-16:30

Jan Moneita

Maritime University of Szczecin, Poland

Title: The effect of natural deterioration on selected properties of rapeseed oil methyl esters

10:30-10:50

16:30-16:50

Devic Gordana

University of Belgrade, Serbia

Title: Urban sustainability at risk due to soil pollution by heavy metals and oil products

10:50-11:10 20:20-20:40

Gangaraju Gedda

Presidency University, India

Title: Green synthesis of metal/carbon dot nanocomposites for environmental remediation

11:10-11:30

20:40-21:00

Chitra

CSIR- National Physical Laboratory, India

Title: Gases and particulate matter emission during extraction of various materials from waste silicon solar panels by thermal treatment process

11:30-11:50

18:30-18:50

Hasan Savgili

Vocational School of Technical Sciences, Turkey

Title: Environmental performance of hydrochar-derived magnetic carbon composite for heavy metal removal

11:50-12:10

20:50-21:10

Shahid Adeel

Government College University Faisalabad, Pakistan

Title: Ultrasonic-assisted extraction & application of bio-colorant from neem bark (Azadirachta Indica) for green mordanted wool fabric

EDT Timings Local Timings

12:10-12:30

21:10-21:30

Shumaila Kiran

Government College University,

Pakistan

Title: Mitigation of direct orange 26 dye using copper nanoparticles synthesized from tilapia fish scales: An environmental remedial approach

12:30-12:50 17:30-17:50

Ndzana Arnauld Philippe

Yaounde Urban Council, Cameroon

Title: Takeover of the FSM in yaounde

12:50-13:10

22:20-22:40

Divya Tripathy

Galgotias University, India

Title: Surfactants enhanced soil remediation

13:10-13:30 20:10-20:30

Ozcan Koysuren

Ankara University, Turkey

Title: Preparation of B₄C/AgFe₂O₄ heterostructures for photoreduction of Cr (VI)

13:30-13:50 20:30-20:50

Igor V Shevchenko

Semenenko Institute of Geochemistry Mineralogy and Ore Formation, Ukraine

Title: Influence of the sun on water dependence on geometry of solution and its position in space

13:50-14:10 14:50-15:10

Fabiano Andre Narciso

Fernandes Federal University of Ceara,

Brazil

Title: Cold plasma catalyzed degradation of diazinon in aquatic

environment





Tuesday

KEYNOTE PRESENTATIONS

@VIRTUAL ROOM 03

EDT Timings Local Timings

05:30-06:00 EDT | AV check

Moderator:

Rajesh Kumar, BRABihar University, India

06:00-06:30 12:00-12:30

Victor Cerda

University of the Balearic Island, Title: Automated in-chip catalytic spectrophotometric methods Spain

06:30-07:00

11:30-12:00

Kevin Kendall

Hydrogen United in Birmingham, Title: Green hydrogen UK by 2030: Progress and prospects United Kingdom

07:00-07:30 14:00-14:30

Cristian Ravariu

University Politehnica of Bucharest, Romania

Title: Nanostructured materials used for the fabrication of an AcHE

biosensor for pesticide detection

07:30-08:00 14:30-15:00

Osman Adiguzel Firat University, Turkey Title: Shape recovery and crystallographic reactions in shape memory

alloys

ORAL PRESENTATIONS

08:00-08:20 14:00-14:20

Victor Cerda

University of the Balearic Island,

Spain

Title: Automated flow techiques for environmental analysis

08:20-08:40 21:20-21:40

Seong Sik Shin

Korea Atomic Energy Research Institute, Korea

Title: Effect of transition metal oxides in silver tellurite glass

08:40-09:00 21:40-22:00

Ga veong Kim

Chungnam National University, Korea

Title: Synthesis of Cs pollucite ceramic waste form and long-term leaching behavior

09:00-09:20 22:00-22:20

Amelia Christina Atmowidjojo Kyoto University, Japan

Title: Characterization of glycosyltransferase from rhizobium pusense useful for regioselective production of resveratrol 4'-O-a-D-glucoside

09:20-09:40

16:20-16:40

Adib Gareyev

Bashkirs State University, Russia

Title: Control theory of electric centrifugal pump in oil production

09:40-10:00

19:10-19:30

Kilivelu Ganesan

Presidency College, India

Title: Non-toxic, inexpensive and recyclable second-generation ionic liquids as a catalyst for one pot multicomponent organic reactions

10:00-10:20 17:00-17:20

Grigory Korablev

Izhevsk State Agricultural Academy, Russia

Title: Unity and correlations of entropic components in physical and chemical regularities

10:20-10:40

19:50-20:10

Rajesh Kumar

B R A Bihar University, India

Title: Chemo-enzymatic approach to synthesis of modified nucleosides

10:40-11:00 09:40-10:00

Victor Ramos

University of Engineering and Technology, Peru

Title: Use of stipa ichu as a reinforcement in the manufacture of biodegradable films for food packaging

11:00-11:20

09:00-09:20

Mihaela Leonida

Fairleigh Dickinson University, United States

Title: Catalase enhanced using two green processes

11:20-11:40

20:50-21:10

V K Jain

Amity University, India

Title: Fabrication of heterojunctions on silicon nanowires on Si Chip, CdS/p-Si for electricity generation from moisture and n-SnO₂/p-Si for UV detection

EDT Timings Local Timings

11:40-12:00

18:40-19:00

Amira Mohamed Taher Hegazy Beni-Suef University, Egypt

Title: Development and validation of two robust simple chromatographic methods for estimation of tomatoes specific pesticides residues for safety monitoring prior to food processing line and evaluation of local samples

12:00-12:20

18:00-18:20

Pieter Samyn

Ghent University, Belgium

Title: Biomimetics in composite interface engineering: Opportunities for interface monitoring and life-time extension

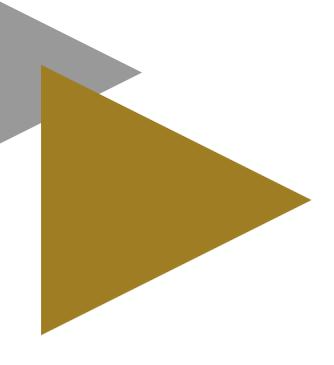
Hans Jurgen Federsel RISE Research Institutes of Sweden, Sweden

Title: Against all odds the development of a unique asymmetric sulfide oxidation

END NOTE

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Questions? Contact

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