

VIRTUAL EVENT

# FINAL PROGRAM



## 7<sup>th</sup> Edition of International Conference on Catalysis, Chemical Engineering and Technology

May 17-18, 2021 | 11:00-19:00 GMT

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

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GMT Timings    Local Timings

11:00-11:10

Opening Ceremony

## Keynote Presentations

11:10-11:40

21:10-21:40

Title: CalAISil™ zeolite geopolymers – Green nanotechnology that replace carbon and energy intensive materials

Leon Burgess, Technology Director and Owner of CalAISil, Australia

11:40-12:10

13:40-14:10

Title: Molecular-scale design of novel materials for organic photovoltaics and electronics

Michael Zharnikov, Heidelberg University, Germany

12:10-12:50

21:10-21:50

Title: Energy saving for CO<sub>2</sub> capture process of the tomakomai CCS demonstration project

Takashi Sasaki, Plant Engineering Dept, Japan CCS Co, Japan

12:50-13:20

20:50-21:20

Title: Recent advances in non-thermal plasma enhanced catalysis for CO<sub>2</sub> conversion and SO<sub>2</sub> reduction

Chunshan Song, The Chinese University of Hong Kong, Hong Kong

13:20-13:50

16:20-16:50

Title: Green chemistry offers non-carcinogenic organic semiconductors for thin film transistors

Ravariu Cristian, University Politehnica of Bucharest, Romania

## Oral Presentations

Session on: Catalysis and Chemical Engineering

13:50-14:10

22:50-23:10

Title: Quantum chemical insight into catalyst durability

Ai Suzuki, Tohoku University, Japan

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14:10-14:30	23:10-23:30	Title: Preparation of nitrogen-containing carbonaceous adsorbent from PAN fiber to remove nitrate ion from aqueous phase  Motoi Machida, Chiba University, Japan
14:30-14:50	22:30-22:50	Title: Nanofibrillar decellularized Wharton's Jelly Matrix for segmental tracheal repair  Yong Xu, Tongji University School of Medicine, China
14:50-15:10	09:50-10:10	Title: Process and adsorbent for separating ethanol and associated oxygenates from a biofermentation system  Deepak Sharma, Bayer U.S. , USA
15:10-15:30	20:40-21:00	Title: Novel use of Aluminium Ferrite ( $\text{AlFeO}_3$ ), a magnetic material for photocatalytic wastewater treatment  Bhuvanasundari, IIT Madras, India
15:30-15:50	21:30-21:50	Title: Dissolution processes of metals during polarization with alternating current of industrial frequency  Azhar Bayeshova, Al-Farabi Kazakh National University, Kazakhstan
15:50-16:10	18:50-19:10	Title: Syngas conversion to higher alcohols: Application of K-promoted $\text{CoMoS}_2$ catalysts supported over novel carbon-containing materials  Mohamed Ezeldin Abdalla Osman, Peoples Friendship University of Russia, Russia
16:10-16:30	17:10-17:30	Title: Catalyst applications for the regeneration of diesel particulate filters  Jianbing Gao, University of Leeds, UK
16:30-16:50	18:30-18:50	Title: Monitoring of biolubricant production by different methods  Sergio Nogales Delgado, University of Extremadura, Spain

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16:50-17:10	18:50-19:10	Title: Tetranuclear molybdenum(vi) hydrazonato epoxidation (pre)catalysts: Is water always the best choice?  Jana Pisk, University of Zagreb, Croatia
17:10-17:30	20:10-20:30	Title: Nanoscience and Nanotechnology: An educational point of view  Riam Abu Much, The Academic Arab College for Education in Haifa, Israel
17:30-17:50	21:30-21:50	Title: Compositions on the basis of modified phenol-formaldehyde oligomers  Tamilla Naibova, Azerbaijan State University of Oil and Industry, Azerbaijan
17:50-18:10	19:50-20:10	Title: Catalyst and elemental analysis in biodiesel produced from various feed stocks  Adelaja Otolorin Osibote, Cape Peninsula University of Technology, South Africa
18:10-18:30	21:10-21:30	Title: Bioelectrochemical stimulation of enzyme activity for phenol biodegradation by the strain Bradyrhizobium Japonicum 273  Venko Beschkov, Bulgarian Academy of Sciences, Bulgaria
18:30-18:50	20:30-20:50	Title: Quantitative analysis of MB and RB photodegradation in the presence of metal-oxide catalyst nanoparticles synthesized by pulsed laser ablation in water  Damjan Blazeka, Institute of Physics, Croatia
<b>Keynote Presentation</b>		
18:50-19:20	14:50-15:20	Title: Photochemical Generation of 9-Fluorenyl Radicals  Edward Lee Ruff, York University, Canada

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GMT Timings Local Timings

**Keynote Presentations**

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11:00-11:30 14:00-14:30 Title: On the long-term problem of the “super” storage of hydrogen in catalytically grown graphite nanofibers

Yury S. Nechaev, Bardin Central Research Institute for Ferrous Metallurgy, Russia

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11:30-12:00 14:30-15:00 Title: Intensification of Tornado-like vortex structures in a near-wall flow over an energy-efficient surface with multi-row inclined OvalTrench Dimples

Dmitry Nikushchenko, Saint-Petersburg State Marine Technical University, Russian Federation

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12:00-12:30 21:00-21:30 Title: Messy-material analysis through electron-trap distribution patterns of surface amorphized titania particles

Bunsho Ohtani, Hokkaido University, Japan

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12:30-13:00 20:30-21:00 Title: Synthesis of graphene based buckypaper infiltrated with polyvinyl alcohol (PVA) for strain sensor application

Mubarak Nabisab Mujawar, Curtin University, Malaysia

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13:00-13:30 18:30-19:00 Title: Rhizosphere bioremediation - Green technology for industrial waste treatment

Madhusudan Hiranman Fulekar, Parul University, India

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**Oral Presentations**

Session on: Green Chemistry and Renewable Energy

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13:30-13:50 15:30-15:50 Title: Asymmetric hydrogenation and transfer hydrogenation: Synthetic and industrial applications

Virginie Ratovelomanana Vidal, Chimie ParisTech - iCLeHS UMR CNRS 8060, France

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13:50-14:10 23:50-00:10 Title: Lithium-ion battery recycling and second life reuse: Challenges and opportunities

Yanyan Zhao, CSIRO Energy, Clayton, Australia

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14:10-14:30    23:10-23:30    Title: Social impact assessment of sustainable agriculture: Two cases of solar agricultural houses in Japan

Noriko Irie, Ehime University, Japan

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14:30-14:50    23:30-23:50    Title: Social impact assessment of sustainable agriculture: Two cases of solar agricultural houses in Japan

Naoko Kawahara, Kindai University, Japan

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14:50-15:10    23:50-00:10    Title: Green ammonia synthesis using renewable energy-derived hydrogen

Rahat Javaid, Fukushima Renewable Energy Institute, Japan

## Poster Presentations

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15:10-15:20    00:10-00:20    Title: Nickel hydroxides derived from nickel dithioamide coordination polymer as potential electrocatalyst for oxygen reduction reaction in alkaline solutions

Ihsan Budi Rachman, Shibaura Institute of Technology, Japan

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15:20-15:30    00:20-00:30    Title: Ultrasound-assisted copper leaching from copper slag

Phan Phuoc Tri, Nagaoka University of Technology, Japan

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15:30-15:40    23:30-23:40    Title: Ferrocene-catalyzed heterogeneous Fenton-Like degradation mechanisms and pathways of antibiotics under simulated sunlight: A case study of sulfamethoxazoleP

Senlin Tian, Kunming University of Science and Technology, China

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15:40-15:50    18:40-18:50    Title: Green farming: Inevitable strategy of human civilization

Yeugeniy M. Gusev, Russian Academy of Sciences, Russian Federation

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15:50-16:00    21:20-21:30    Title: Photoelectrochemical properties of electrodeposited hybrid CZTS photo electrodes

T. Shiyani, Central University of Gujarat, India

## Oral Presentations

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16:00-16:20    21:30-21:50    Title: Removal of phenol from wastewater in fixed-bed column using low-cost natural bio-adsorbent neem leaves

Ashanendu Mandal, University of Calcutta, India

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16:20-16:40    21:50-22:10    Title: Wastewater scanning of paper industries with reference to bacterial diversity and water quality: A combined approach

Inderjeet Tyagi, Zoological Survey of India, India

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16:40-17:00    22:40-23:00    Title: Polymer immobilized TiO<sub>2</sub> microparticles and application in photocatalytic degradation of caffeine

Saule Mergenbayeva, Nazarbayev University, Kazakhstan

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17:00-17:20    19:00-19:20    Title: A bridge between theory and experiment: Application of microkinetic modeling in molecular catalyst design and in cancer research

Zsolt Benedek, Budapest University of Technology and Economics, Hungary

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17:20-17:40    21:20-21:40    Title: Eco friendly low-cost date palm nano bio adsorbent for adsorption of heavy metals from wastewater

Vandana Sakhre, Manipal Academy Of Higher Education, Dubai

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17:40-18:00    23:10-23:30    Title: Synthesis and MTO performance of SAPO-5 and SAPO-34 molecular sieves

Baljinder Kaur Riyar, Indian Institute of Technology Roorkee, India

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18:00-18:20	19:00-19:20	Title: Mild synthesis of high added value compounds hydroxytyrosol through catalytic oxidation of the of tyrosol and 2-phenylethanol  Mohamed Bouaziz, Universite de Sfax, Tunisia
18:20-18:40	19:20-19:40	Title: Optimization of direct conversion of raw algal biomass harvested by electrocoagulation into biodiesel under supercritical ethanol conditions  Kameni Romario Juste, Ngaoundere University, Cameroon
18:40-19:00	19:40-20:00	Title: Electrodeposition of ZnO nanorod arrays on transparent conducting substrate (ITO)  Zaina Mezine, Universite Mouloud Mammeri de Tizi-Ouzou, Algeria
19:00-19:20	04:00-04:20	Title: A Framework for achieving carbon-free Society  Dai Yeun Jeong, Asia Climate Change Education Center, South Korea

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# UPCOMING CONFERENCES

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8<sup>th</sup> Edition of Global Conference on  
**Catalysis, Chemical Engineering & Technology**

September 27-29, 2021 | Paris, France

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9<sup>th</sup> Edition of International Conference on  
**Catalysis, Chemical Engineering and Technology**

October 21-23, 2021 | Orlando, USA

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10<sup>th</sup> Edition of Global Conference on  
**Catalysis, Chemical Engineering and Technology**

March 28-30, 2022 | Singapore

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11<sup>th</sup> Edition of International Conference on  
**Catalysis, Chemical Engineering and Technology**

May 16-17, 2022 | Tokyo, Japan

## QUERIES? CONTACT

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