

## Registration :

Participants are welcomed to register, please visit:  
<http://icceee.ejust.edu.eg/registration>

## Publication

Most of the accepted papers in the previous ICCEEE-2021 were published in journal of Materials Science Forum, Vol. 1010, (<https://www.scientific.net/MSF.1010>).

Accepted papers in the new edition 2023, after proper registration and presentation, will be published in the conference proceedings, which will be submitted for Scopus Journal, Ei Compendex, etc.

**Note: Journal publication requires extra fees.**

### Conference Chairman

Prof. Amr Adly, President of Egypt Japan University for Science and Technology (E-JUST).

### Conference Rapporteur

Prof. Mona Gamal Eldin, Dean of school of Energy Resources, Environmental, Chemical and Petrochemical Engineering. (E-JUST)

### Conference General Secretary

- Prof. Masaki Suzuki, (First vice president for Regional and International Affairs (E-JUST)
- Prof. Sameh Nada, Vice president for Educational and Academic Affairs (E-JUST)
- Prof. Toshio Fukuda, Vice president for Research (E-JUST)

### Head of organization committee

Prof. Ahmed Elshazly, Chairperson of Chemical and Petrochemical Engineering Chemical Engineering Department (E-JUST)

### Organizing Committee:

- Prof. Hamdy Abou Ali, Professor and Chairperson of Energy Resources Department (E-JUST, Egypt)
- Prof. Marwa Elkady, professor, Chemical and Petrochemicals Engineering Department (E-JUST, Egypt)
- Prof. Mahmoud Amin, professor, Energy Resources Department (E-JUST, Egypt)
- Dr. Mahmoud Nasr, Associate professor, Environmental Engineering Department (E-JUST, Egypt)
- Dr. Mahmoud Sharaan, Assistant professor, Environmental Engineering Department (E-JUST, Egypt)
- Dr. Amaal Sayed, Assistant professor, Environmental Engineering Department (E-JUST, Egypt)

- Dr. Ahmed Elwardany, Associate professor / Energy Resources Department (E-JUST, Egypt).
- Dr. Mohamed Emam, Assistant professor / Energy Resources Department (E-JUST, Egypt).
- Dr. Hussien Noby, Assistant professor, Chemical and Petrochemicals Engineering Department (E-JUST, Egypt)
- Dr. Usama Eldemerdash, Assistant professor, Chemical and Petrochemicals Engineering Department (E-JUST, Egypt)

### Scientific Committee:

- Prof. Mona Gamal Eldin (Dean of EECE school (E-JUST))
- Prof. Ahmed Elshazly, Professor and Chairperson of Chemical and Petrochemical Engineering Department (E-JUST, Egypt)
- Prof. Tsuyoshi Yoshitake, Professor, Department of Advanced Energy Science and Engineering, Faculty of Engineering Sciences, Kyushu University
- Prof. Shinichi Ookawara, Professor, Chemical Engineering Department (Tokyo Institute of Technology, Japan).
- Prof. Jun-ichiro Hayashi, Professor & Director, Department of Advanced Device Materials, Institute for Materials Chemistry and Engineering, Kyushu University
- Dr. Manabu Fujii, Associate Professor, Department of Civil Engineering, (Tokyo Institute of Technology, Japan).
- Prof. Hamdy Abou Ali, Professor and Chairperson of Energy Resources Department (E-JUST, Egypt)
- Prof. Mahmoud Amin, Professor, Energy Resources Department (E-JUST, Egypt)
- Prof. Marwa Elkady, Professor Chemical and Petrochemical Engineering Department (E-JUST, Egypt)
- Prof. Hassan Shokry, Professor and chairperson, Environmental Engineering Department (E-JUST, Egypt)
- Dr. Ahmed Elwardany, Associate professor / Energy Resources Department (E-JUST, Egypt).
- Dr. Abdelrahman Zkria, Assistant Professor, Center for Japan-Egypt Cooperation in Science and Technology (E-JUST Center)
- Dr. Balasubramani Ravindran, Associate Professor, Department of Environmental Energy and Engineering, Kyonggi University, South Korea.
- Prof. Zunhua Zhang, Professor, School of Naval Architecture, Ocean and Energy Power Engineering, Wuhan University of Technology.
- Prof. Dong LIU, Professor and Vice Dean, School of Energy and Power Engineering, Nanjing University of Science and Technology



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School of Energy Resources, Environmental, and  
Chemical and Petrochemical Engineering (EECE)



# ICCEEE 2023

4<sup>th</sup> International Conference of  
Chemical, Energy and Environmental Engineering

17-18 July, 2023

Egypt - Japan University for Science and Technology Campus,  
New Borg El Arab City



## The ICCEEE 2023: Overview

The 4<sup>th</sup> International Conference of Chemical, Energy and Environmental Engineering - ICCEEE 2023:

Since the great success of the previous editions ICCEEE 2017, 2019, 2021 which were held in cooperation between Egypt-Japan university of Science and technology (Egypt), and Tokyo Institute of Technology (TiTech) and under auspices of Egyptian ministries of "Environment", "Higher Education and Scientific Research", "Electricity and Renewable Energy", and "Trade and Industry".

This year the conference 4th edition welcomes the participation of Kyushu University beside the TiTech as supporting universities from Japan and will continue to bring together leading academic scientists, research scholars and researchers to share and exchange their research results and experiences in all aspects of Chemical, Energy and Environmental Engineering.

It also provides a premier interdisciplinary platform for researchers, educators and practitioners to present and discuss their recent innovations as well as practical challenges encountered and solutions adopted in the fields of Chemical, Energy and Environmental Engineering.

<https://icceee.ejust.edu.eg/>

### Conference Date

July 17<sup>th</sup> to 18<sup>th</sup>, 2023

### Conference Venue

The conference will be hybrid (Physically at E-JUST premises and Online)



## Call for Contributions

All interested authors are kindly encouraged to contribute to conference through submissions of their research abstracts, papers, and presentations. Also, high quality research contributions describing original unpublished results of conceptual, constructive, empirical, experimental, or theoretical work in all areas of Chemical, Energy, and Environmental Engineering are invited to be presented at the conference.

Please visit <https://icceee.ejust.edu.eg/call-for-abstract/> and submit your abstract.

### Abstract submission deadline

- Abstract submission deadline: **June 1<sup>st</sup>, 2023**
- Full paper submission deadline: **July 1<sup>st</sup>, 2023**
- Final Conference agenda and program: **July 10<sup>th</sup>, 2023.**

## Conference Fees

Full registration available online, conference fees as follow:

Registration	Egyptian	Foreign Guest	Egyptian Student	Foreign Student
Earlybird (before June 1 <sup>st</sup> , 2023)	1800 EGP	300 \$	1200 EGP	150 \$
Online participation	900 EGP	100 \$	900 EGP	100 \$
After June, 2023	2500 EGP	400 \$	1500 EGP	200 \$
Online participation	1250 EGP	150 \$	1250 EGP	150 \$

Registration includes only the conference materials and break.

\* Special rate for four registrars or more (20% reduction)

You can pay your registration fees either via bank transfer or on campus, check the website for details:

<https://icceee.ejust.edu.eg/>

## Main Topics

### Chemical and Petrochemical Engineering:

- Separation process improvement and development
- Reaction kinetics and catalysis
- Green and sustainable industry
- Chemical engineering equipment and process design
- Petroleum petrochemicals, fertilizers, gas processing industries
- Desalination (membranes and solar application)
- Preparation of Nano-materials and its applications

- Corrosion and electrochemistry
- Catalysis and its applications (photocatalysis, electrocatalysis, enzyme-catalysis, etc.)- Design of Micro-reactor and its application (preparation of fine chemicals, food stuffs and pharmaceutical drugs, etc....)
- Development of new polymeric materials (composites, insulators, fibrous materials and conducting polymers, etc.)
- Biodiesel production from agricultural and oil wastes.

## Energy resources Engineering

- Nanotechnology applications in renewable energy
- Photovoltaic systems
- Fuel cells, and solar hydrogen production
- Solar thermal applications, and energy storage technology
- Combustion, air pollution, Bio-Diesel fuels and additives
- Thermal comfort, energy policy, planning and management.
- Sorption heat pump systems.
- Hybrid Concentrator Photovoltaic/Thermoelectric power generator (CPV/TEG/T)-Design and performance evaluation
- Wind turbine aerodynamics
- Fuel Cell Technology (PEMFCs, DMFCs, and SOFCs)
- Computational Fluid Dynamics and Heat Transfer
- Micro-and Nano scale flows- Flow in porous media
- Complex fluids-Modeling and simulation
- Spray systems - Design and characterization
- Multi-phase flows- Modeling, and simulation
- Blood flow- Modeling and simulation

## Environmental Engineering :

- Sustainability, environmental assessment and management
- Climate change
- Air pollution assessment and control
- Waste water treatment technologies
- Water quality and treatment
- Solid and hazardous waste management
- Integrated coastal zone management
- Sustainability of river basins and water supply systems
- Hydroinformatic
- Water resources management
- Energy Efficiency in Buildings
- Environmental Urban Design and Planning
- Implementations of Nanotechnology for Pollution Control and Detection.
- Sensors and Detectors Technology.