



# The Hybrid 9<sup>th</sup> Jordan International Chemical Engineering Conference

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Oct 12 - 14, 2021, Amman - Jordan



## About the conference

Jordan International Chemical Engineering Conference JChEC series began in 1993 in Amman, Jordan. Ever since, an international edition of the JChEC series has been held every three years, supported by the Jordan Engineers Association.

The aim of JChEC series is to feature the latest release in the world of chemical and process engineering, bringing together scientists, researchers, industry stakeholders, and investors to exchange experiences and challenges. From the very beginning, JChEC conferences have involved participations from the Arab and Middle East countries in addition to many European, Asian, and North and South-American countries.

Based on our long experience, and with the support of the prestigious sponsoring journals, the diversity of historical and touristic attractions in Jordan, as well as the hospitality of the Jordanian people, we are optimistic to reach more than 500 participants from all continents in JChEC09.

Of course, the social program has always been rich in different activities and visits to many historical and touristic places in Jordan such as Petra, Wadi Rum, Jerash and Ajloun. The JChEC09 social committee will do their best to ensure that your stay in Jordan will meet your expectations.

Fortunately, in this issue, JChEC09 will have five international journals in chemical engineering and related engineering applications that will publish special issues for some selected papers submitted to the conference, encouraging local and international scientists and researchers to participate.

## Conference Topics

1

### Heat and mass Transfer in Chemical Process

- Heat and mass transfer process intensification
- Heat and mass transfer in multiphase processes
- Heat and mass transfer in porous media
- Development of new insulating materials

2

### Biochemical Engineering and Biotechnology

- New applications of biocatalysts
- Biotreatment and biodegradation
- New biochemical products, antibiotics, food and others
- Biomass utilization
- Biofuel production

3

### Nanotechnology Applications in Chemical Engineering

- Nanoparticles and catalysts
- Carbon nanotubes
- Functional films and nanostructures
- Nanomembranes
- Nanofluids

4

### Sustainable Environmental Management

- Sustainable wastewater treatment processes, reuse, purification, and hygiene
- Solid waste management
- Pollution control and privation
- Environmental standards
- Gas emission management
- Carbon dioxide capture

5

### Chemical Process Modeling, Simulation and Control

- Computer applications in chemical engineering
- Continuous process design and optimization
- Process dynamic and controls

6

### Potentials and Challenges of Local Industries

- Potash and Bromine
- Cement
- Pharmaceuticals
- Phosphate
- Detergents and cosmetics
- Other industries
- Multicomponent fertilizers
- Food industry

7

### Energy First: Renewable Energy and Conventional Resources for Chemical Industries

- Fuel cells
- Photocatalysts
- Oil shale
- Bio energy wastes as fuel resources
- Solar cells and solar powered technologies
- Fossil fuels

8

### Chemical engineering kinetics

- Chemical reactors and reaction kinetics, and phenomena
- Catalysis
- Reactor design

9

### Chemical Engineering and the Dead Sea: the Chemically Live Sea

- Extraction of new minerals
- Dead Sea industry and renewable energy
- Sequestration of CO<sub>2</sub> and other gases in the Dead Sea
- The impact of environmental changes on Dead Sea industry
- Dead Sea sustainability

10

### Desalination and Sustainable Water Treatment

- Drinking water desalination
- Grey water treatment processes
- Combined wastewater treatment processes
- Industrial waste water treatment processes

11

### Chemical Process Safety

- Managing process safety hazards
- Hazards identification and chemical risk management
- Risk based process safety
- Runaway chemical reactions control
- Inherent safer engineering design
- Dispersion of toxic and flammable analysis
- Dust explosions control
- Chemical reactivity management
- Layer of protection analysis

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### General Chemical Engineering

- Active learning
- New opportunities for students and young researchers in chemical engineering
- Engineering program accreditation
- New methods for education
- Energy systems integration
- Process intensification
- Biodegradable polymers
- New polymerization processes
- Team working
- E-learning
- Scale up and scale down approaches
- The smart chemical plant
- Composite materials
- Conductive polymers
- Any topic in Chemical Engineering

## Important Dates

Abstract submission deadline	July 22, 2021
Notification of abstract acceptance	July 29, 2021
Full paper submission deadline	September 01, 2021
Notification of paper acceptance	September 15, 2021
Revised paper submission deadline	September 22, 2021

## Submission

The submitted manuscripts are two categories

1- The first one which is submitted to be published in the conference proceeding after a peer review process

2- The second category includes the manuscripts which are submitted to be published in the sponsored journals... These manuscripts will be reviewed by those journals after a revision by the conference scientific committee

All submitted manuscripts should fulfill the requirements and format of the conference proceeding or the journal submitted at:

Email: JChEC@jea.org.jo

## Partner Scientific Journals

### 1- Science of the Total Environment

- <https://www.journals.elsevier.com/science-of-the-total-environment/>
- ISSN: 0048-9697
- Impact factor: 6.551

### 2- The Canadian Journal of Chemical Engineering

- <https://www.cheminst.ca/journal/>
- ISSN: 1939-019X
- Impact factor: 1.687

### 3- Arabian Journal for Science and Engineering

- <https://www.springer.com/journal/13369>
- ISSN: 2193-567X
- Impact factor: 1.711

### 4- Desalination and Water Treatment

- <https://www.deswater.com/home.php>
- ISSN: 1944-3994
- Impact factor: 1.320

### 5- Jordanian Journal of Engineering and Chemical Industries

- <http://jjeci.net/about-the-journal/>
- ISSN: 2616-9584

## Registration Fees

Type of participation	Online	Actual
JEA Member (Attendees & Authors)	50 \$	150 \$
Non - JEA Members (Attendees & Authors)	50 \$	200 \$
Students	Free	30 \$

Registration fees usually include conference materials, opening banquet, coffee breaks and lunches.

Deadline for registration for submission August 01, 2021

• The registration fees are not refundable.

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Contact Us

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