

## Special Issue

# Application AI in Chemical Engineering

### Message from the Guest Editors

With the rapid development of industrial informatization, data-driven modeling and analysis techniques such as big data and artificial intelligence have been paid much attention and applied in research and practices of chemical processes, such as process modeling and process safety analysis. There are still many challenges that need to be studied and resolved to facilitate further applications of AI in industrial productions. This Special Issue on “Application AI in Chemical Engineering” aims to gather outstanding research and provide comprehensive coverage of all aspects related to the applications of AI in chemical engineering, and it will bring together high-quality research articles on the different aspects of AI technology in chemical engineering, including current status and remaining challenges. Topics include, but not are limited to, the following:

- Theoretical investigations and numerical experiments for data-driven process modeling;
- AI-based fault detection and diagnosis methods and industrial applications;
- Intelligent manufacturing for chemical processes.

---

### Guest Editors

Prof. Dr. Xu Ji  
Dr. Yiyang Dai  
Dr. Li Zhou

---

### Deadline for manuscript submissions

closed (15 June 2022)



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/si/68625](https://mdpi.com/si/68625)

*Processes*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[processes@mdpi.com](mailto:processes@mdpi.com)

[mdpi.com/journal/  
processes](https://mdpi.com/journal/processes)





# Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/journal/  
processes](https://mdpi.com/journal/processes)



## About the Journal

### Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

---

### Editor-in-Chief

Prof. Dr. Giancarlo Cravotto  
Department of Drug Science and Technology, University of Turin, Via P.  
Giuria 9, 10125 Turin, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

#### Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))