

## Special Issue

# Modelling, Monitoring, Control and Optimization for Complex Industrial Processes

### Message from the Guest Editor

The Special Issue on "Modelling, Monitoring, Control and Optimization for Complex Industrial Processes" aims to provide a forum for researchers and engineers to report their recent results, exchange research ideas, and overlook emerging research and application directions in modelling, condition monitoring, optimization and advanced control for complex industrial processes. Potential topics include, but are not limited to, the following:

- Complex dynamic analysis and modelling of industrial processes
- Data-driven modelling approaches for complex industrial processes
- Multiscale dynamic simulations of industrial processes
- Condition monitoring and fault diagnosis techniques
- Prognosis and predictive maintenance for complex industrial systems
- Advanced optimization methodologies
- Resilient control techniques
- Advanced approaches and techniques for cyber-physical systems
- Validation and real-time applications

---

### Guest Editor

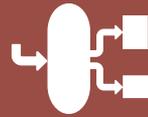
Prof. Dr. Zhiwei Gao

Department of Mathematics, Physics and Electrical Engineering,  
Northumbria University, Newcastle upon Tyne NE1 8ST, UK

---

### Deadline for manuscript submissions

closed (10 December 2022)



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/si/75753](https://mdpi.com/si/75753)

*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))