

# Special Issue

## Optimization-Driven Methods for Optimal Operation and Control Strategies

### Message from the Guest Editor

This Special Issue will collect contributions that apply and develop optimization concepts for realizing optimal process operation and control. This includes online-optimization methods, such as model predictive control (MPC) and real-time optimization (RTO), as well as developments that use optimization off-line for designing an optimal control structure, or controllers, including tuning. Applications of optimizations and new developments of optimization algorithms and methods are both welcome. Topics include

- Model predictive control
- Dynamic real-time optimization / economic model predictive control
- Real-time optimization / modifier adaptation / self-optimizing control
- Optimization-based controller design and controller tuning methods
- Learning-based optimization for optimal operation
- Data-based optimization of operations
- Plant-wide control approaches and control structure design

---

### Guest Editor

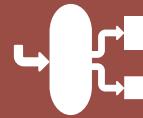
Prof. Dr. Johannes Jäschke

Department Chemical Engineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway

---

### Deadline for manuscript submissions

closed (30 May 2020)



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/si/32829](http://mdpi.com/si/32829)

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

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





# Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



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

