

## Special Issue

# Process Design of Biomass Thermochemical Conversion

### Message from the Guest Editor

This Special Issue will focus on thermochemical biomass conversion processes, including carbonization, liquefaction, and gasification. Dry processes (pyrolysis and gasification) as well as their hydrothermal counterparts will be covered, which includes process optimization as well as intelligent integration of different conversion processes in a biorefinery. Topics of interest, specifically related to thermochemical biomass conversion, include:

- Process design and optimization
- Improvement of process efficiency
- Model development to enable process simulation
- Process integration with chemical and biochemical conversion as well as other means of biomass processing
- Process chains with thermochemical conversion as the key enabling technology
- Development of process monitoring equipment
- Catalysis for reaction optimization, both in situ and ex situ
- Biomass pretreatment and product upgrading with their impact on/integration in the process

---

### Guest Editor

Dr. Axel Funke

Institute of Catalysis Research and Technology (IKFT), Karlsruhe  
Institute of Technology (KIT), Karlsruhe, Germany

---

### Deadline for manuscript submissions

closed (31 December 2020)



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/si/43754](https://mdpi.com/si/43754)

*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))