



Advanced Technology for the Biomass-Based Chemicals, Fuels and Materials

Guest Editors:

Dr. Zhicheng Jiang

College of Biomass Science and Engineering, Sichuan University, Chengdu 610065, China

Dr. Yuhe Liao

Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences, Guangzhou 510610, China

Deadline for manuscript submissions:

closed (10 June 2023)

Message from the Guest Editors

The tremendous CO₂ emission from the use of fossil fuel and the treatment of the end chemicals/materials has aroused wide public concerns over the world. Biomass, a renewable and sustainable resource with carbon neutral feature, is considered as an alternative feedstock to prepare value-added chemicals, high-grade fuels and functional materials. Different technologies have been developed for this purpose: fermentation, catalytic hydrogenation/oxidation, pyrolysis/solvothermal treatment, crosslinking/blending/doping, etc. This resource revolution paves the way to ensure the viable and sustainable development of the greener industry for social progress.

This Special Issue on “Advanced Technology for the Biomass-Based Chemicals, Fuels and Materials” includes but is not limited to:

1. Pretreatment technologies of biomass for its further utilization
2. Catalytic upgrading of biomass-based chemicals
3. Biofuels and biogas from biomass feedstock
4. Biomass-based materials for chemical engineering and environment





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

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

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.

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: JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us

Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/processes
processes@mdpi.com
[X@Processes_MDPI](https://twitter.com/Processes_MDPI)