



Catalytic Liquefaction Processes of Biomass for Fuels and Chemicals

Guest Editor:

Dr. Daniele Castello

Department of Energy
Technology, Aalborg University,
Denmark

dac@et.aau.dk

Deadline for manuscript
submissions:

31 May 2021

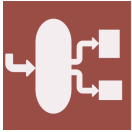
Message from the Guest Editor

Utilizing biomass as a renewable source of carbon is one of the most exciting challenges of current research in chemical engineering. This has a special value in connection with the increasing concern on global warming, urging a reduction of the utilization of fossil resources in order to lower CO₂ emissions.

This Special Issue aims at gathering recent, high-quality research contributions in the field of catalytic liquefaction processes for biomass, for the production of sustainable biofuels and/or chemicals. Possible topics include (but are not limited to):

- Experimental studies on catalytic pyrolysis or catalytic hydrothermal liquefaction;
- Comparison between catalytic and noncatalytic biomass liquefaction processes;
- Upgrading of bio-oils from catalytic liquefaction processes to final fuels and chemicals;
- Blending and co-refining of bio-oils from catalytic liquefaction processes for drop-in fuels;
- Development of novel catalysts for thermochemical liquefaction;
- Case studies on pilot or demonstration scale plants;
- Modeling studies and technoeconomic evaluations.





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

Processes (ISSN 2227-9717) provides an advanced forum for process/systems related research in chemistry, biology, materials and allied engineering fields. Our goals are to publish high impact articles of broad interest to the process systems community and to serve as a forum for major developments in process/systems research. The journal publishes regular research papers, communications, letters, short notes, and reviews. There are no restrictions on the length of published articles or on the use of color illustrations. All submitted manuscripts undergo rigorous peer review prior to publication.

Author Benefits

Open Access:—free for readers, with **article processing charges (APC)** paid by authors or their institutions.

High Visibility: Indexed in the **Science Citation Index Expanded** (Web of Science) and **Inspec (IET)**. Covered in **Scopus** from Vol. 5 (2017).

CiteScore (2019 Scopus data): 1.8.

Contact Us

Processes
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

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