



Catalytic Biomass Fractionation

Guest Editor:

Dr. M. (Maxim) Galkin

Stratingh Institute for Chemistry,
University of Groningen,
Nijenborgh 4, 9747 AG Groningen,
The Netherlands

Deadline for manuscript
submissions:

closed (30 April 2020)

Message from the Guest Editor

The depletion of fossil resources and food and water shortage associated with population growth encourage the search for alternative way to produce fuels, chemicals, and materials. Perspective solutions should mitigate climate change, reduce fossil-fuel dependence, and not be competitive with the food production. The replacement of fossil raw materials by biomass is foreseen.

The conversion of biomass is difficult and inefficient due to biomass recalcitrance. Many factors contribute to the recalcitrance of biomass to chemicals and enzymes. The complexity of the biomass matrix, crystallinity of cellulose, and the inhibition of enzymatic activity by lignin are a few among them. Biomass fractionation is the key process to unlock biomass potential and enable its full utilization. The aim of this Special Issue is to cover an efficient and green catalytic pretreatment and fractionation methods. Successful methods should be able to overcome biomass recalcitrance and enable tailoring valorization.





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: 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)