

## Special Issue

# Biomass Energy Conversion for Efficient and Sustainable Utilization

### Message from the Guest Editors

Increasingly, biomass is positioned as a strategic resource for energy needs in heating/cooling, electricity generation, transport, and biorefinery feedstock. As a form of renewable energy, they offer advantages such as easy storage and transportation, flexible load management, and versatile applications. This Special Issue on “Biomass Energy Conversion for Efficient and Sustainable Utilization” seeks high-quality works focusing on developing technologies (including pretreatment processes) to convert biomass resources from different origins into solid, liquid, and gaseous forms of biofuels by applying precise, suitable, and innovative approaches. Topics include, but are not limited to, the following: assessing bioenergy supply chain effectiveness, including generation and utilization; thermochemical, physicochemical, and biochemical biomass conversion and hybrid system technologies for valuable energy products; manufacturing advanced biofuels as key alternative for green sustainable biomass products; bioenergetic valorization of biomass waste towards sustainability and zero waste; biomass pretreatment processes to optimize bioenergy production and utilization.

### Guest Editors

Dr. Maginot Ngangyo-Heya

Facultad de Agronomía (FA), Universidad Autónoma de Nuevo León (UANL), Francisco Villa S/N, Col. Ex-Hacienda “El Canadá”, Escobedo 66050, Nuevo Leon, Mexico

Dr. Artemio Carrillo-Parra

Instituto de Silvicultura e Industria de la Madera, Universidad Juárez del Estado de Durango, Durango 34120, México

### Deadline for manuscript submissions

15 August 2025



## Processes

an Open Access Journal  
by MDPI

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/si/226116](https://mdpi.com/si/226116)

*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))