

Special Issue

Utilization of Biomass: Energy, Catalysts, and Applications

Message from the Guest Editors

In light of the global focus on reducing fossil fuel use and carbon emissions from combustion fuels, researchers are actively seeking alternative energy sources. Renewable energy is crucial in this effort due to its minimal environmental impact compared to non-renewable sources. Biomass, a prevalent form of renewable energy, can be converted into various usable energy forms, such as biofuels. To fully utilize biomass within a biorefinery, biocatalysts are essential. These catalysts are particularly effective in thermochemical processes and are also used in biomass pretreatment, hydrolysis in lignocellulosic ethanol production, and biodiesel production. This Special Issue of Sustainability will address biomass use, biocatalysts, and their applications. We invite you to submit manuscripts on these topics to advance the field and emphasize the role of biomass in achieving a more sustainable future.

Guest Editors

Prof. Dr. Everaldo Silvino dos Santos

Prof. Dr. Carlos Eduardo De Araújo Padilha

Prof. Dr. Nathália Saraiva Rios

Deadline for manuscript submissions

30 December 2025



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/214674

Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)