

Special Issue

Advances in Waste Biomass and Environmental Sustainability: 2nd Edition

Message from the Guest Editor

The depletion of fossil fuel resources is a major threat to the sustainable development of human society; therefore, biomass has gained increasing attention in relation to the production of chemicals, fuels, and materials for environmental applications.

Thermochemical conversion technologies, such as pyrolysis and hydrothermal operations, could provide an alternative for the processing of biomass and wastes, enabling reuse via the transformation of their properties. In addition, the catalytic processing of biomass residues is a promising approach for the production of high-value chemicals, which still requires intense efforts. We are pleased to invite you to contribute to this Special Issue, entitled “Advances in Waste Biomass and Environmental Sustainability: 2nd Edition”, to be published in Sustainability. This Special Issue aims to present and disseminate the most recent advances in waste biomass valorization processes for the production of high-value chemicals, with the aim of developing technologies for carbon neutrality.

Guest Editor

Dr. Lucília Sousa Ribeiro

Department of Chemical and Biological Engineering, Universidade do Porto, Porto, Portugal

Deadline for manuscript submissions

31 May 2026



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/240110

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)