

Special Issue

Thermal Conversion Processes of Biomass for Sustainable Utilization in Energy, Chemical, and Metallurgical Industries

Message from the Guest Editors

Modern challenges in the energy, chemical, and metallurgical industries related to the environment require the development of sustainable methods of energy production and the efficient utilization of renewable resources. This Special Issue focuses on thermal conversion processes such as torrefaction, pyrolysis, gasification, combustion, and hydrothermal methods used to convert biomass and other waste into clean energy and valuable products. The aim of this Special Issue is to bring together state-of-the-art research and technological solutions aimed at improving the efficiency, environmental safety, and sustainability of energy processes. Special attention is focused on the integration of the thermal processes with socio-economic and environmental aspects of sustainable development. New approaches to life cycle assessment, the application of digital and intelligent process control systems, and policy and regulation in this area are also addressed.

Guest Editors

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Deadline for manuscript submissions

31 July 2026



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 8.9



mdpi.com/si/240583

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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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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

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