

Special Issue

Innovative Thermochemical Valorization of Biomass Wastes Toward a Circular Economy

Message from the Guest Editors

The transition from a linear economy to a circular economy is vital for the sustainable growth of modern societies. This shift depends on effective waste valorization and efficient resource recovery to minimize environmental impact. This Special Issue aims to collect and disseminate knowledge through original research articles, comprehensive reviews, and short communications, focusing on:

- **Advanced Thermochemical Valorization Technologies:** Such as hydrothermal carbonization, liquefaction, gasification, carbonization, pyrolysis, and gasification.
- **Integration of Renewable Energy:** Enhancing the efficiency and sustainability of biomass waste valorization processes.
- **Life Cycle Assessment (LCA):** Evaluating the environmental, economic, and social impacts of thermochemical technologies and developing strategies for integrating circular economy principles.

We welcome high-quality submissions that advance understanding of thermochemical technologies for biomass waste valorization, highlighting solutions that promote sustainability and resource recovery, supporting the **United Nations Sustainable Development Goals (SDGs)**.

Guest Editors

Dr. Claudia Prestigiacomio

Department of Engineering, Chemical, Environmental, Biomedical, Hydraulics and Materials Section, University of Palermo, 90128 Palermo, Italy

Dr. Hwai Chyuan Ong

School of Information, Systems, and Modelling, Faculty of Engineering and Information Technology, University of Technology, Sydney, Ultimo, NSW, Australia

Deadline for manuscript submissions

closed (30 May 2025)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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