Special Issue

Emerging Trends in Bioenergy: From Waste to Resource

Message from the Guest Editors

The global energy transition increasingly depends on innovative pathways that can convert waste into valuable, renewable energy carriers. Turning waste into bioenergy addresses waste management challenges and contributes to decarbonization, resource efficiency and energy security. This Special Issue of *Energies* focuses on recent developments and innovations in emerging trends in bioenergy, from waste to resource. Contributions are invited on all aspects of bioenergy production and use, including waste (municipal, agricultural, etc.) conversion technologies, recycling and reuse, sustainable management processes and policies. Papers addressing life cycle assessment (LCA), techno-economic analysis, and environmental and policy considerations are also highly encouraged. By bringing together innovative research and case studies, this Special Issue aims to provide a comprehensive perspective on how waste can be transformed into a sustainable resource, towards a circular and low-carbon economy.

Guest Editors

Dr. Loukia P. Chrysikou
Chemical Process & Energy Resources Institute—CPERI, Centre for Research and Technology Hellas—CERTH, 6km Harilaou-Thermi, P.O. Box 57001 Thessaloniki, Greece

Dr. Stella Bezergianni
Chemical Process & Energy Resources Institute—CPERI, Centre for Research and Technology Hellas—CERTH, 6km Harilaou-Thermi, P.O. Box 57001 Thessaloniki, Greece

Deadline for manuscript submissions

20 April 2026

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/260344

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

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

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

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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)