



energies



an Open Access Journal by MDPI

Waste Management and Bio-Energy Production

Guest Editors:

Dr. Kyriaki Kiskira

Laboratory of Inorganic and Analytical Chemistry, School of Chemical Engineering, Zografou Campus, National Technical University of Athens, 15773 Athens, Greece

Dr. Konstantinos Kalkanis

School of Engineering, Department of Electrical and Electronics Engineering, University of West Attica, 12244 Egaleo, Greece

Prof. Dr. Constantinos S. Psomopoulos

High Voltage and Energy Systems Research Lab, Department of Electrical and Electronics Engineering, University of West Attica, 12244 Egaleo, Greece

Deadline for manuscript submissions:

closed (5 February 2024)

Message from the Guest Editors

Dear Colleagues,

The requirements of sustainable and appropriate waste management are becoming an international challenge and a priority for the global community. Bioenergy is one of many diverse resources available to help meet our demand for energy.

This Special Issue will focus on current biomass pretreatment methods and technologies for energy recovery, the current status and technologies for obtaining biofuels from biomass, including pyrolysis products; pellets, briquettes and tablets, biogas, biohydrogen, biodiesel, bioethanol, biochitan and syngas, biorefineries, the modeling and optimization of the technologies for energy recovery from biomass and also techno-economic analysis (TEA) and life cycle assessment (LCA) for converting biomass and organic waste into bioenergy.

We invite you to publish original scientific contributions and review papers summarizing the achievements to date in this research field and indicate the strengths and weaknesses of the available technologies.

Keywords: biomass; biowaste; agricultural residues; biowaste valorization; biofuels; bioenergy potential; energy recovery; circular bioeconomy; conversion technologies



mdpi.com/si/153332

Special Issue



energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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.

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 (*Engineering (miscellaneous)*)

Contact Us

Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://twitter.com/energies_mdpi)