

Special Issue

Biomass, Biofuels and Waste— 4th Edition

Message from the Guest Editor

This Special Issue in *Energies* focuses on recent advances in biomass conversion technologies and integrated bioenergy systems that support net-zero transitions. Contributions addressing innovative pre-treatment and thermochemical processes (e.g., torrefaction, hydrothermal carbonization, pyrolysis and gasification) are encouraged, alongside emerging approaches such as hybrid thermal–biological systems, digitalisation and process optimisation and AI-driven modelling. Keywords see below:

- biomass conversion
- bioenergy
- biofuels
- waste-to-energy
- circular bioeconomy
- thermochemical conversion
- pyrolysis
- gasification
- torrefaction
- hydrothermal carbonization
- hybrid thermal–biological processes
- integrated biorefinery
- process optimisation
- digitalisation
- artificial intelligence in energy
- carbon capture and utilisation (CCUS)
- bioenergy with carbon capture and storage (BECCS)
- negative emissions technologies
- life cycle assessment (LCA)
- etc.

Guest Editor

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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.

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