Special Issue

Advanced Bioenergy, Biomass and Waste Conversion Technologies: 2nd Edition

Message from the Guest Editor

This Special Issue (second edition) aims to showcase recent advances in bioenergy production through biomass and waste conversion, encompassing pyrolysis, gasification, liquefaction, torrefaction, hydrothermal carbonization, direct combustion, and cocombustion. Furthermore, it highlights the utilization and valorization of by-products and residues from these processes in alignment with circular economy principles. Topics of interest include, but are not limited to, the following:

- Advanced methods for biomass and waste-to-energy conversion;
- The optimization of pyrolysis, gasification, and liquefaction processes;
- Innovations in torrefaction and hydrothermal carbonization;
- Co-combustion strategies for enhanced energy recovery;
- The utilization and valorization of process residues and by-products;
- Environmental impact assessments and sustainability analyses;
- Techno-economic evaluations of bioenergy systems;
- Life cycle assessment and circular economy approaches.

Guest Editor

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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.

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