

Special Issue

Research on Conversion Technology for Biofuel Production

Message from the Guest Editors

The urgent global need for sustainable energy is accelerating research into biomass conversion and bio-fuel production. This Special Issue seeks high-quality research and reviews on cutting-edge advances and solutions for turning diverse biomass into next-generation biofuels. We welcome multidisciplinary work that connects fundamental science with practical engineering to support a sustainable energy future.

Topics of interest include:

- Advanced thermochemical conversion (e.g., pyrolysis, gasification, hydrothermal liquefaction) and AI/quantum chemistry applications.
- Biochemical conversion advances, including fermentation and metabolic engineering.
- Integrated biorefining systems for co-producing biofuels and chemicals.
- Novel catalyst design for efficient bio-fuel synthesis.
- Innovative feedstock pre-treatment and logistics.
- Sustainability assessments, LCA, and techno-economic analysis of bio-fuel pathways.

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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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