

## Special Issue

# Bioenergy for Biofuels: Upgrading from Renewable Resources

### Message from the Guest Editors

In recent years, there is an urgent need to address the depletion of non-renewable fossil resources and their associated environmental issues with the use of fossil fuel-derived fuels. Alternatively, biomass and other organic waste materials could be promising future fuel sources. Therefore, the transformation of such materials into renewable and clean bioenergy and biofuels has attracted a great deal of attention. This Special Issue is thus dedicated to focus on the research efforts regarding the technological development and advancement of clean biofuels and bioenergy production from biomass and organic waste. Proposed themes include, but are not restricted to the following:

- Pretreatment approaches for the production of clean biofuels and bioenergy.
- Thermochemical and biological biomass conversions including pyrolysis, gasification, anaerobic digestion, fermentation, etc.
- The computational modelling of biomass conversion technologies.

---

### Guest Editors

Dr. Yulin Hu

Assistant Professor, Faculty of Sustainable Design Engineering,  
University of Prince Edward Island, Charlottetown, PE, Canada

Dr. Kang Kang

Biorefining Research Institute, Lakehead University, 955 Oliver Rd,  
Thunder Bay, ON, Canada

---

### Deadline for manuscript submissions

closed (7 February 2025)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.2



[mdpi.com/si/195348](https://mdpi.com/si/195348)

*Energies*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

[mdpi.com/journal/  
energies](https://mdpi.com/journal/energies)





# Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.2



[mdpi.com/journal/  
energies](https://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)