



## Biomass Resources to Bioenergy

Guest Editor:

**Dr. Shiplu Sarker**

Department of Manufacturing  
and Civil Engineering, Norwegian  
University of Science and  
Technology, 7034 Trondheim,  
Norway

Deadline for manuscript  
submissions:  
**closed (20 February 2025)**

### Message from the Guest Editor

Dear Colleagues,

The Special Issue titled “Biomass resources to Bioenergy” particularly focuses on this aspect and solicits short and full-length research and review papers with potential topics including, but not limited to, the following:

- Sustainable biomass production including all value chains involved;
- Genetically modified biomass resources towards bioenergy generation;
- Bioenergy, biofuels and biochemicals production from all conversion routes utilizing all kinds of biomass resources;
- Novel technological advancements in biomass resource based processes like bio-chemical looping combustion, torrefaction, biomass co-combustion and photo- and dark fermentation;
- Technoeconomic, environmental and safety analysis of bioenergy and biorefinery processes employing commercial and open-source software including various other mathematical modeling approaches;
- Machine learning, artificial intelligence (AI) and emerging approaches to predict performance and optimization of bioenergy and biorefining processes;
- Cases and concepts revolving around hybrid, smart and future-bioenergy energy systems.





# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 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 (Control and Optimization)

## Contact Us

---

*Energies* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

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