



*energies*



an Open Access Journal by MDPI

## Recent Advances in Biofuel Production from Microalgae Biomass

Guest Editor:

**Prof. Małgorzata Hawrot-Paw**

Department of Renewable  
Energy Engineering, West  
Pomeranian University of  
Technology, Pawła VI 1, 71-459  
Szczecin, Poland

Deadline for manuscript  
submissions:

**30 November 2024**

### Message from the Guest Editor

Dear Colleagues,

The use of fossil fuels for energy production leads to increased pollution levels, including the amount of greenhouse gases emitted, and has global economic consequences. An alternative way to cover the increasing energy demand is to use renewable sources, including biomass. Conventional biomass use, the method of obtaining such feedstocks, and their availability raise concerns; therefore, a great deal of attention is focused on algal biomass.

Biofuels from microalgae have the potential to promote energy diversification in the future and, due to the high level of carbon dioxide sequestration in biomass, to decarbonize transport. There is a need for economic analyses of microalgal biofuel production to indicate the current level of competitiveness compared to other conventional energy carriers. Sustainable production of microalgal biomass, integrated energy conversion technologies in biorefineries, and appropriate regulations are key areas for the development of commercial microalgal biofuel production.



[mdpi.com/si/192181](https://mdpi.com/si/192181)

# Special Issue



# energies



an Open Access Journal by MDPI

## Editor-in-Chief

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

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 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 (*Engineering (miscellaneous)*)

## Contact Us

---

*Energies* Editorial Office  
MDPI, St. Alban-Anlage 66  
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)