

## Special Issue

# Intensifying Anaerobic Digestion: Biotechnological Innovations for Enhanced Energy Conversion

### Message from the Guest Editor

This Special Issue aims to delve into the multifaceted role of AD in forging a sustainable future, and specifically focuses on the following topics:

- **AD Intensification:** We seek submissions that explore groundbreaking approaches to enhancing biogas production and the quality of the digestate.
- **Enzymatic Biotransformation:** We encourage the submission of research that details the pivotal role of enzymes and microorganisms in optimizing feedstock breakdown and improving AD efficiency.
- **Circular Bioeconomy Integration:** This Special Issue emphasizes the critical role of AD in closing nutrient loops and fostering sustainable waste management.
- **Environmental Implications:** We aim to analyze the profound environmental contributions of intensified AD.
- **Techno-economic studies:** The special issue will also welcome studies that evaluate the economic viability and technical feasibility of the proposed strategies.

### Guest Editor

Dr. Habib Horchani

Groupe de Recherche en Environnement et Biotechnologie,  
Département des Sciences, College of Rivière-du-Loup, Rivière-du-Loup, QC G5R 1R1, Canada

### Deadline for manuscript submissions

5 March 2026



## Energies

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/233540](https://mdpi.com/si/233540)

*Energies*  
Editorial Office  
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 3.2  
CiteScore 7.3



[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)