

## Special Issue

# Advanced Technologies in Nuclear Engineering

### Message from the Guest Editors

This Special Issue aims to address the role of nuclear energy in a future net-zero electricity market that may feature a high presence of renewables and other variable sources and inexpensive peaking capacity. It will cover nuclear power plant design and operation, as well as related technologies. It will provide a forum to discuss and present recent research results, technologies, and best practices on nuclear power plants and their most relevant equipment and components for both fission and fusion technologies, as well as consider their future developments. Papers can include small modular reactor designs, technologies, and operations. Research results on advanced and innovative nuclear fuel cycles will also be included. This Special Issue will also give particular attention to fusion–fission hybrid reactor technologies because these systems could represent an interesting synthesis between nuclear technologies.

---

### Guest Editors

Dr. Guglielmo Lomonaco

Prof. Dr. Álvaro Rodríguez-Prieto

Dr. Fabio Panza

---

### Deadline for manuscript submissions

closed (31 December 2024)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.2



[mdpi.com/si/186971](https://mdpi.com/si/186971)

*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)