

## Special Issue

# Batteries and Energy Storage Systems: Towards a Sustainable Energy Future

### Message from the Guest Editors

This Special Issue invites articles that address all the aspects related to advancements in battery/energy storage technologies and management concerning stationary and mobility applications. Topics of interest for publication include, but are not limited to, the following:

- Novel approaches and power configurations in battery management systems for electric mobility;
- Battery status monitoring, both diagnostic and prognostic;
- Multifunctional battery systems and materials supporting the development and testing of structural battery applications;
- Hybrid energy storage systems, with reference to the integration and management of high-specific energy and power storage devices;
- Novel systems and methods with which to guarantee optimal battery thermal management focused on phase change materials and liquid-based systems;
- Hydrogen-based configurations to supply either vehicle or micro-grid applications;
- The smart management of energy storage for the optimal integration of renewable and distributed energy sources.

### Guest Editors

Dr. Clemente Capasso

National Research Council of Italy, Institute of Sciences and Technologies for Sustainable Energy and Mobility, 80125 Naples, Italy

Dr. Giovanni Chianese

National Research Council of Italy, Institute of Sciences and Technologies for Sustainable Energy and Mobility, 80125 Naples, Italy

### Deadline for manuscript submissions

10 October 2025



## Energies

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/237492](https://mdpi.com/si/237492)

*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)