Special Issue

Electrochemical Energy Storage: Batteries, Fuel Cells and Hydrogen Technologies

Message from the Guest Editor

This Special issue aims to provide a broad overview of the most recent updates on electrochemical batteries, fuel cells, as well as hydrogen production, storage, and conversion technologies. Topics of interest for publication include, but are not limited to, the following:

- Components materials;
- Nanomaterials for energy storage;
- Solar-based ESS;
- Renewable energy integration and grid applications;
- Modelling and simulation of energy storage materials, fuel cells, and electrochemical capacitors;
- The mitigation of degradation paths in automotive energy systems;
- Advancements in systems control;
- Cost reduction strategies;
- Advanced catalysts for fuel cells;
- Reversible fuel cells;
- Realistic and safe solutions for sustainable hydrogen production, storage, and transportation;
- Economic analyses and business models related to hydrogen technologies.

Guest Editor

Dr. Roberto Bubbico

Department of Chemical Engineering, Materials and Environment, "Sapienza" University of Rome, via Eudossiana 18, 00184 Roma, Italy

Deadline for manuscript submissions

31 October 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/206623

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

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)

MDPI