Special Issue

Design, Optimization and Applications of Energy Storage System

Message from the Guest Editors

This Special Issue provides a platform for publishing and sharing novel, inspiring, and promising research on energy storage systems. Topics of interest include but are not limited to the following:

- Electrochemical energy storage, i.e., battery, flow battery, flexi battery, etc.
- Thermal energy storage, i.e., sensible, latent, thermochemical, etc.
- Mechanical energy storage, i.e., pumped hydro, compressed air, flywheels, etc.
- Chemical energy storage, i.e., hydrogen, synthetic natural gas storage, etc.
- Electrical energy storage, i.e., electrostatic, capacitor, supercapacitors, etc.
- Hybrid storage system.
- Modelling and experimentation.
- Optimization and control strategies.
- Applications, i.e., heating, cooling, power generation, hydrogen, etc.
- Life cycle costing and life cycle assessment analysis.
- Energy, exergy, economic, and environmental analysis.

Guest Editors

Dr. Raffaello Cozzolino
Department of Engineering, University of Rome Niccolò Cusano, 00166 Roma, Italy

Prof. Dr. Gino Bella
Department of Engineering, University of Rome Niccolò Cusano, 00166 Roma, Italy

Deadline for manuscript submissions

closed (13 June 2025)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/207914

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