

Special Issue

Challenges and Research Trends of Energy Management

Message from the Guest Editors

We cordially invite scholars and experts worldwide to share theoretical research achievements and engineering application experiences, collectively driving the innovation and development of intelligent energy management technologies and supporting the transformation and upgrading of the new energy vehicle industry. Topics of interest include, but are not limited to, the following: Optimal control strategies for multi-energy powertrain systems; Intelligent energy management algorithms; Information utilization in energy management; Vehicle energy flow analysis; Design of novel topology-based energy management systems; Dynamic allocation and real-time optimization of vehicle energy flow; Coordinated control of thermal-electric coupling management systems; Intelligent state-of-health (SOH) assessment and lifespan extension strategies for batteries; Vehicle thermal management; Digital twin-based simulation and optimization of energy systems; Hardware-in-the-Loop (HIL) testing and real-vehicle validation methodologies.

Guest Editors

Dr. Nan Xu

College of Automotive Engineering, Jilin University, Changchun 130025, China

Dr. Yifan Jia

College of Mechanical Engineering, Hebei University of Technology, Tianjin 300400, China

Deadline for manuscript submissions

25 August 2026



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/233793

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)