

Special Issue

New Energy Vehicles: Battery Management and System Control

Message from the Guest Editor

The advancement in battery technologies have propelled the evolution of new energy vehicles, e.g., Battery Electric Vehicles (BEVs), Hybrid Electric Vehicles (HEVs), and Fuel Cell Electric Vehicles (FCEVs) for the automotive industry. Due to the intricate nature of different power sources, it is imperative to develop effective battery thermal management systems (BTMSs) and design effective control systems to shift between potential operating modes. Thus, this Special Issue encourages researchers working in this field to share their latest developments in emerging battery management technologies and control systems to improve the EVs' efficiency and safety. Keywords

- battery electric vehicle
- battery thermal management system
- flow channels
- artificial intelligence

Guest Editor

Dr. Chunwei Zhang

1. State Key Laboratory of Automotive Simulation and Control, Jilin University, Changchun 130025, China
2. College of Automotive Engineering, Jilin University, Changchun 130025, China

Deadline for manuscript submissions

closed (25 April 2025)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/206417

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)