

Special Issue

Hybrid Energy Storage Systems for Electric Vehicles

Message from the Guest Editors

This Special Issue encourages researchers working in this field to share their latest developments on HESS for electric vehicles. We welcome application-of-use cases, state-of-the-art reviews and benchmarking studies—the evaluation and comparison of different energy management methods. Our aim is to bring together innovative contributions covering (but not limited to):

- Design, system engineering, and field applications of HESS in road vehicles (cars, trucks, buses);
- Multiphysics modeling, simulation, and testing;
- Combined sizing and energy management of HESS;
- Power electronic architectures for HESS;
- Solid-state battery technology;
- Machine learning, big data, and cloud computing in HESS applications;
- Real-time energy management methodologies, including predictive strategies for optimal energy management;
- Monitoring and predictive maintenance of HESS;
- V2G and V2V functionalities and integration of HESS in smart grids;
- Life cycle analysis, including re-use of HESS in second life applications.

Dr. Ricardo de Castro

Guest Editors

Prof. Dr. Rui Esteves Araújo

Dr. Ricardo De Castro

Dr. Cláudio Pinto

Deadline for manuscript submissions

closed (1 June 2021)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/21229

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)