



energies



an Open Access Journal by MDPI

Electric Vehicle Efficient Power and Propulsion Systems

Guest Editors:

Prof. Dr. João Pedro F. Trovao

Department of Electrical and
Computer Engineering, University
of Sherbrooke, Sherbrooke, QC
J1G 2E8, Canada

Prof. Dr. Minh Cao Ta

Department of Industrial
Automation, Hanoi University of
Science and Technology, Hanoi,
Vietnam

Deadline for manuscript
submissions:

closed (31 March 2022)

Message from the Guest Editors

Dear Colleagues,

Vehicle electrification is one of the main trends identified, with a growth capacity of 15% until 2030. In the coming years, many internal combustion engine vehicles, hybrid vehicles, and all-electric vehicles will be on the road as consumers switch to more efficient and environmentally friendly propulsion systems. To remain competitive in this electrically powered future, carmakers and researchers are investing in a wide range of propulsion technologies to increase efficiency and power capacity, developing the next generation of powertrains. A reliable EV solution should therefore harness the advantages of more efficient and powerful energy storage systems, including multiple sources through their effective management, new improved power converters, including the new generation of switching devices, and explore advanced configurations for electric motors, reducing the use of rare-earth materials.

This Special Issue encourages researchers working in this field to share their latest developments in electric-vehicle-efficient power and propulsion systems, for road, rail, and air vehicles, both manned and unmanned.



mdpi.com/si/38387

Special Issue



energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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.

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 (*Engineering (miscellaneous)*)

Contact Us

Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://x.com/energies_mdpi)