

## Special Issue

# Challenges, Trends and Achievements in Electric Vehicle Research and Development in the Era of Vehicle Electrification

### Message from the Guest Editors

In this Special Issue we would like to propose a broad topic covering all aspects of vehicle development accompanying the progressive electrification of their propulsion. Topics may range from issues related to the propulsion system, energy storage, and control of this system to issues related to the impact of the increased weight of the energy storage system and its location as related to vehicle dynamics, vehicle layout, the mechanical structure of the vehicle body and chassis, changes in the selection of chassis parameters, or the need to ensure crash safety for passengers as well as energy storage. Proposed sample subject areas may include such specific topics as: - The modeling and control of hybrid and electric drive systems; - Various propulsion solutions (electric motor location, powertrain ratio, and gear numbers) for electric vehicles and their influence on energy consumption and other aspects of electric vehicle dynamics; - Energy storage in electric vehicles—energy, weight, volume, and safety issues;

---

### Guest Editors

Dr. Grzegorz Slaski

Prof. Dr. Dariusz Wieckowski

Prof. Dr. Zbigniew Lozia

Prof. Dr. Marek Guzek

---

### Deadline for manuscript submissions

closed (10 October 2024)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/183629](https://mdpi.com/si/183629)

*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto: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)