



Performance Analysis and Simulation of Electric Vehicles

Guest Editor:

Prof. Dr. Florin Mariasiu

Automotive Engineering and
Transports Department,
Technical University of Cluj-
Napoca, Bdul.Muncii 103-105,
Cluj-Napoca, Romania

Deadline for manuscript
submissions:

closed (20 February 2024)

Message from the Guest Editor

Dear Colleagues,

The purpose of this Special Issue is to identify current problems and future challenges and to present solutions for electric vehicle design and development, and therefore, original and innovative contributions (articles, communications, and reviews) are invited from different perspectives related to the field of electric vehicles. Topics of interest are related to performance analysis and/or simulation of (but are not limited to):

- Electrified powertrain systems, components, and control;
- Chassis;
- Aerodynamics;
- Power electronics and electric motor drives;
- Energy storage systems;
- Fuel cell application in transportation;
- EV battery safety challenges;
- Battery management system (BMS);
- Battery electronics and control;
- EV dynamic performance;
- EV range prediction;
- HVAC systems for EV.

Prof. Dr. Florin Mariasiu

Guest Editor





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 (Control and Optimization)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

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