energies

an Open Access Journal by MDPI

IMPACT FACTOR 3.0

CITESCORE 6.2

Future Perspectives of Modelling and Testing Energy Storage Systems for Electric Vehicles

Guest Editor:

Dr. Mircea Ruba
Faculty of Electrical Engineering, Technical University of Cluj-Napoca, 400114 Cluj-Napoca, Romania

Deadline for manuscript submissions:
closed (15 September 2021)

Message from the Guest Editor

The increased growth of simulation-driven development of electric vehicles, tending to aggressively conquer the automotive industry, requires continuous improvements in skills and knowledge, and the seeking of new solutions on both the theoretical and experimental sides of the analysis. Narrowing down the horizon to the interest of this Special Issue, modelling and simulation of batteries, super-capacitors or hybrid energy storage solutions are to be presented, underlining their applicability and link to experimental analysis, due to which they are proving to be lucrative industrial tools. Using, as a base line, the actual status of research, future perspectives materialized through the genuine modelling, simulation and experimental analysis-based approaches of EV energy storage units are the hot topic of the present Special Issue. Such studies are difficult to separate from power electronics and their control; hence, complete solutions are more than welcome for inclusion. In addition, advanced models, wise solutions, intelligent parameters' identification, self-learning algorithms, cell monitoring or other genuine applications are of interest in the present issue.

energies

IMPACT FACTOR 3.0

CITESCORE 6.2

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