





an Open Access Journal by MDPI

Testing and Management of Lithium-Ion Batteries

Guest Editor:

Prof. Dr. Daniel-Ioan Stroe

Department of Energy Technology, Aalborg University, Pontoppidanstræde 111, 9220 Aalborg, Denmark

Deadline for manuscript submissions:

closed (20 October 2020)

Message from the Guest Editor

The Guest Editor is inviting submissions to a Special Issue of Energies on the subject area of "Testing and Management of Lithium-ion Batteries". After dominating the portable electronics market, Lithium-ion batteries have become the key energy storage technology for propelling electric vehicles (EV, HEV, and PHEV), and they are entering the renewable energy storage sector (e.g., grid support applications, microgrids, renewables' grid integration enhancement). Nevertheless, Li-ion batteries are highly non-linear systems with their performance behavior strongly influenced by the short-term and long-term operating conditions. Thus, before being deployed in a certain application, extensive testing is required in order to understand and learn the behavior of the battery at various real-life conditions. Subsequently, based on these knowledge, battery models, state estimation methods, and battery cell balancing algorithms can be developed in order to achieve an optimal management of the battery cells in a battery pack, which will ensure battery lifetime maximization and battery cost optimization.











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