

Special Issue

Testing and Management of Lithium-Ion Batteries

Message from the Guest Editor

The 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.

Guest Editor

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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.

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