Special Issue

Thermal-Related Issues of Li-Ion Batteries and Solutions

Message from the Guest Editor

Lithium-ion (Li-ion) battery technology has become one of the most popular energy storage solutions globally for applications ranging from micro-mobility systems to electric, medium-, and heavy-duty vehicles. It has become an important link in the chain of clean energy harvesting and consumption and is playing a crucial role in the transition to low-carbon energy. Heat is a critical component associated with lithium-ion batteries during normal operations and abuse scenarios, affecting their performance and safety. The heat produced from energy storage units/systems needs to be quantified and analyzed, so that proper strategies may be taken to either remove or add heat to ensure the safety, functionality, and reliability of these systems. This Special Issue will be focused on research works that help the understanding and management of Li-ion battery heat during either normal or abuse scenarios.

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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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