Special Issue

Electric Energy Storage Systems for Transportation Electrification

Message from the Guest Editors

More recently, the trend in the auto industry is to move towards electric modes of transport as well as autonomous e-mobility (self-powered cars and urban mass mobility). Hence, it has become imperative to find a solution to manage on-board energy production and usage. Enhancing the life of lithium-ion (Li-ion) and lithium-polymer (Li-Po) battery cells/packs has been the topic of much interest recently. Li-ion battery safety and calendar life are also major concerns. In this framework, this Special Issue will focus on technologies related to smart battery/cell energy management systems and related power electronics-based solutions. Alternate electric energy storage technologies as well as advanced modeling techniques will also be discussed. Critical issues such as power converters and control for health-conscious fast charging and thermal management systems for extremely rapid charging will also be focused on.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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