

Topical Collection

Advances in Battery Energy Storage and Applications

Message from the Collection Editors

Currently, the topic of battery energy storage and the applications of batteries is of great interest in the pursuit of a sustainable society. In fact, batteries and their applications are strictly interrelated: the design of new and improved batteries is stimulated by new and improved applications and vice versa. For some applications, batteries with new electrolytes or electrode materials have been specifically realized, while in others, improvements are derived from better energy storage engineering. The aim of this Topical Collection is to update the battery-powered applications and the improvements made through their batteries in terms of technological advancements. This Topical Collection will include (but not be limited to) the following topics:

- Battery standards;
- Battery safety;
- Battery system design;
- Battery degradation;
- Battery fast charging;
- Battery manufacturing and recycling;
- Advanced battery characterization methods;
- Future batteries, i.e., solid-state batteries, lithium batteries, etc.

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Message from the Editor-in-Chief

Take the opportunity to publish your original scientific work or a review paper concerning battery materials, battery technology or battery application within this new open access journal. Along with material science, the journal also addresses engineering and multidisciplinary research topics, such as cell and system design or storage system integration. Publishing proffers visibility for the benefit of other experts and facilitates discussion of the research results within the field. You are invited to publish your work, read published papers and to participate in topical discussions.

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