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Advances in Battery Energy Storage and Applications

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Message from the Collection Editors

Dear Colleagues,

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;
- 2. Battery safety;
- 3. Battery system design;
- 4. Battery degradation;
- 5. Battery fast charging;
- 6. Battery manufacturing and recycling;
- 7. Advanced battery characterization methods;
- 8. Future batteries, i.e., solid-state batteries, lithium batteries, etc.











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Message from the Editor-in-Chief

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