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High-Energy-Density and High-Safety Rechargeable Batteries

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Deadline for manuscript submissions:

closed (31 December 2021)

Message from the Guest Editors

The purpose of this research topic is to better understand various high-energy-density batteries and relevant electrochemical behaviors (including both cathode and anode materials, metal-based anode protection, all-solid-state electrolyte and separator modification). Intensive research into these potential battery systems contributes to expanding our comprehensive understanding and practical application of high-energy-density batteries at various scales and application scenarios.

We welcome authors to submit Original Research papers, Perspectives, Reviews, Minireviews, and Short Communications on the following topics and areas:

- The synthesis methods and advanced characterizations of cathode and anode materials
- The fundamental investigations of the mechanism related to high-energy-density electrode materials.
- Metal anode protection and all-solid-state electrolyte-related studies.
- Theoretical work on the design for the advanced electrolytes and electrode materials.
- Newly developed multivalent ion batteries, such as Zn batteries, Ca batteries, Fe batteries, Mg batteries, and Al batteries.



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Message from the Editor-in-Chief

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