Special Issue

Advancements towards Practical All-Solid-State Batteries

Message from the Guest Editor

To shed light on pathways to enable practical solid-state batteries, this Special Issue calls for advances in basic research and technological development of high energy, high power, and practical all-solid-state batteries (ASSBs). We aim to provide a platform for stakeholders, scientists, and engineers to share their research and exchange their ideas. Original research papers, reviews, perspectives, and communications are all welcomed. Topics of interest in this Special Issue include but are not limited to:

- Evolution of anode–solid-state electrolyte interfaces (plating vs. stripping);
- Evolution of cathode–solid-state electrolyte interfaces;
- Mechanics of cathode materials and interfaces upon charging and discharging;
- Performance of ASSBs below room temperature;
- Rational design of solid electrolyte interphases interfaces (SEI) / cathode electrolyte interphases interfaces (CEI);
- Manufacturability of ASSBs;
- Sustainable processing methods of ASSBs.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2023)

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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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