Special Issue

Solid-State Lithium Batteries: From Materials Research to Design, Applications, and Safety

Message from the Guest Editor

All-solid-state lithium batteries (ASLBs) have been extensively researched as electrochemical energy systems beyond the state-of-the-art Li-ion batteries. Despite considerable progress in ASLIB research, designing, testing, and implementing ASLIBs in commercial vehicles is still challenging. This Special Issue aims to provide a research (*experimental, theoretical, modeling including machine learning*) forum to present (*articles, reviews*) the latest advances in "Solid-State Lithium Batteries: From Materials Research to Design, Applications, and Safety". Topics of interest include, but are not limited to:

- Solid electrolytes (SEs) (sulfides, oxides, LiSICONs);
- Cathode/SE interface stabilization;
- Anode/SE interface;
- (Bulk-type) multi-layered ASLIBs (design, implementation, challenges);
- ASLIB stack pressure;
- Thin-film ASLIBs;
- Safety evaluation;
- Electric/hybrid vehicles;
- Space vehicles;
- Electronics, power tools;
- Micro-grid energy storage.

Guest Editor

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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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