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New Electrochemical Performance of Solid-State Batteries: Development and Challenges

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Message from the Guest Editors

This Special Issue on All-Solid-State Batteries(SSB) is focused on new electrolytes, interfaces and manufacturing technologies. Solid-state batteries have high safety and high-energy density, making them suitable for next-generation energy storage devices. Improving the electrochemical performance of solid-state batteries. To understand the change in interface, advanced characterizations are necessary, which can offer scientific evidence to increase the interface stability in the future. In this Special Issue, we are looking for contributions helping to:

- Understand lithium dendrite formation mechanisms in a battery;
- Understanding the capacity decay phenomenon in a solid-state battery;
- Characterization of interface with an in-depth understanding;
- Develop new in situ approaches to solidify electrolytes;
- Develop new self-healing materials with ionic conductivity;
- Determine the impact of the interface on the cycling of the SSB.

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Message from the Editor-in-Chief

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