Special Issue

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

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.

Guest Editors

Dr. Yulong Liu

School of Chemistry, Northeast Normal University, Changchun 130024, China

Dr. Xuejie Gao

Center for Lignocellulosic Chemistry and Biomaterials, College of Light Industry and Chemical Engineering, Dalian Polytechnic University, Dalian 116034, China

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Batteries
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
batteries@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Karim Zaghib

Department of Chemical and Materials Engineering, Concordia University, Montréal, QC H3G 1M8, Canada

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