Special Issue

Progress in Solid-State Battery Technologies

Message from the Guest Editor

The advancement of novel solid- and quasi-solid-state electrolytes, such as gels, polyelectrolytes, and ion exchange membranes, is driving significant progress in the field of solid-state battery technologies. The multifunctionality of these electrolytes, which can serve both as the electrolyte and separator, enables more streamlined and simplified battery architectures. However, realizing the full potential of solid-state battery technologies requires overcoming several challenges, including the development of new materials, improved formulations, process innovations, and cost-effective manufacturing techniques.

We invite submissions to a Special Issue focused on 'Progress in Solid-State Battery Technologies', which aims to highlight the latest advancements in electrolyte materials, device integration, and manufacturing approaches. This issue will provide a platform to share cutting-edge research addressing the key challenges and accelerating the adoption of solid-state battery technologies.

keyword: solid-state electrolyte, electrochemistry, ionic-conductive compound

Guest Editor

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Deadline for manuscript submissions

closed (20 May 2025)

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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