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Solid-State Batteries: How Safe Are They?

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Deadline for manuscript submissions: **25 November 2024**



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Message from the Guest Editors

Dear Colleagues,

Being a revolutionary technology, solid-state batteries (SSBs) have the potential to transform the energy storage sector. Their promising features, such as higher energy density, faster charging, and wider operating temperatures, make them perfect for electric vehicles, electronics, smart grids, and aviation industries. Perhaps the most important advantage is their enhanced safety. Unlike conventional lithium-ion batteries with flammable liquid electrolytes, solid-state batteries utilize non-flammable solid electrolytes, significantly reducing the risk and threats of fire and explosion.

However, a critical question remains: how safe are solidstate batteries in reality?

This Special Issue of *Batteries* aims to discover the current state of knowledge regarding solid-state battery safety. We welcome submissions that address the following key areas:

- Fundamental Mechanisms of Safety.
- Safety Challenges and Risks.
- Safety by Design.
- Life Cycle Analysis Considerations.

We encourage submissions of original research articles, insightful reviews, and thought-provoking opinion pieces.







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Message from the Editor-in-Chief

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