

# Progress in research and development of all-solid-state battery technology

Solid-state batteries with features of high potential for high energy density and improved safety have gained considerable attention and witnessed fast growing interests in ...

This review provided a comprehensive examination of the challenges and emerging research trends in the field of ASSBs, with the ultimate goal of facilitating their ...

All-solid-state batteries (ASSB) have gained significant attention as next-generation battery systems owing to their potential for overcoming the limitations of ...

Solid- state battery (SSB) recent development could handle such thermal problems due to the ...

This research outlines the development of a stable, anode-free all-solid-state ...

Honda's research on an all-solid-state battery. Development Story. Honda is striving to realize carbon neutrality for all products and corporate activities Honda is involved in by 2050. ...

Solid- state battery (SSB) recent development could handle such thermal problems due to the non-flammable characteristic of the solid electrolyte. SSB also has potential for future main ...

Herein, we analyze the real cases of different kinds of all-solid-state lithium batteries with high energy density to understand the current status, including all-solid-state ...

This review summarizes the foremost challenges in line with the type of solid ...

The solid-state battery (SSB) is arguably the most important challenge in battery research and development today . Advances in SSBs would enable step changes in the ...

This review provided a comprehensive examination of the challenges and ...

This issue of MRS Bulletin focuses on the current state of the art of solid-state batteries with the most important topics related to the interface issues, advanced ...

The electrolyte is a priority area of technology development, and the advances in developing solid-state batteries are perfecting conductivity, reducing interfacial resistance, and ...

Other solid-state-battery players, like Solid Power, are also working to build and test their batteries. But while

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they could reach major milestones this year as well, their ...

2. Overview of Solid State Lithium Battery . 2.1 The development of all-solid-state lithium batteries Since first proposed in the late 1970s, all-solid-state lithium batteries have experienced a long ...

This research outlines the development of a stable, anode-free all-solid-state battery (AF-ASSB) using a sulfide-based solid electrolyte (argyrodite  $\text{Li}_6\text{PS}_5\text{Cl}$ ). The novelty ...

This perspective is based in parts on our previously communicated report Solid-State Battery Roadmap 2035+, but is more concise to reach a broader audience, more aiming at the research community and catches up on new or ...

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