

The unique 3D electrolyte architecture was recently published in Energy & Environmental Science and provides the promise of high energy density and commercially viable solid-state sodium batteries.

We report a new amorphous fast Na-ion conducting metal oxychloride that meets these criteria, synthesized through a scalable and low-cost route based on a spontaneous solid-state reaction with simple short mixing ...

In this work, a new class of fluorinated block copolymer is designed as a solid electrolyte for the development of highly stable, all-solid-state sodium metal batteries.

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The development of functional sodium-containing solid-state batteries (SSBs) depends on advancing solid-state electrolyte (SSE) materials with high ionic conductivity and ...

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Herein, this paper systematically discusses the basic theories of solid-state sodium-ion batteries, including working principles and characteristics, electrode materials and components, and solid electrolytes.

Solid-state sodium (Na) batteries open the opportunity for more sustainable energy storage due to their safety, low cost and high energy density.

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Considering both the economic and geopolitical distribution of Li-ion battery components, Na-ion technologies show significant advantages for the next-generation energy storage technologies. As can be seen from the figure, ...

# Sodium solid battery

Abstract Solid-state sodium batteries (SSBs) have attracted great interests due to their high energy density, good safety and low cost, but their performance including ...

Researchers unveil the world's first anode-free sodium solid-state battery, promising cost-effectiveness and environmental benefits.

Considering both the economic and geopolitical distribution of Li-ion battery components, Na-ion technologies show significant advantages for the next-generation energy storage technologies. ...

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