

A new solid state sodium metal battery

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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 ...

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.

The solid-state batteries would still require some pressure to function, but they found that by also using a softer metal, less pressure is required. The researchers decided to ...

1 · The milestone underscores a significant advance in the company's efforts to industrialize all-solid-state battery technology.

The solid electrolyte inhibits dendrite growth to enable a sodium-metal anode with a substantially higher specific capacity. With scalable methods of manufacturing solid ...

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A series of solid-state electrolytes (SSEs), regarded as an essential component of ASSSMBs, have been extensively developed in recent years.

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.

In this issue of Chem, Goodenough and colleagues combine a sodium-metal anode, a NASICON solid electrolyte, and a Prussian blue analog cathode to create an energy-dense, long-lived battery.

Herein, we systematically screen Sb₂S₃ for use as a PEO-based solid-state electrolyte (PSE) additive through theoretical calculations, and in situ construct a highly stable ...

Scientists have created an anode-free sodium solid-state battery. This brings the reality of inexpensive, fast-charging, high-capacity batteries for electric vehicles and grid ...

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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 ...

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