

The Mercedes-Benz-backed battery manufacturer Farasis Energy plans to complete construction of a pilot production line for sulphide-based solid-state batteries by the end of 2025. This line ...

High-performance solid-state electrolytes (SSEs) are crucial for advancing all-solid-state batteries (ASSBs). Amorphous SSEs, in particular, offer promising advantages due to their ...

At the recent 2025 China Automotive Forum, Wang Fang, Chief Scientist at China Automotive Technology Research Centre, identified four critical problems that solid-state batteries need to ...

This review explores high-entropy solid-state electrolytes for rechargeable batteries, focusing on their mechanisms, structural designs, and electrochemical performance. High-entropy solid ...

Chinese battery maker Gotion High-Tech has launched the first road testing for its next-generation all-solid-state batteries, after completing the country's first fully localized 0.2 Gigawatt-hour pilot line, marking a milestone ...

Abstract High-performance solid-state electrolytes (SSEs) are crucial for advancing all-solid-state batteries (ASSBs). Amorphous SSEs, in particular, offer promising advantages due to their ...

Solid state batteries (SSBs) have long been anticipated as a significant breakthrough in battery technology. Recent advancements from companies like QuantumScape and Solid Power indicate that ...

Automakers and cell producers have recently doubled down on timelines for the commercial production of solid-state batteries. Some of the car giants jostling for pole position in this push ...

A solid-state battery uses a solid electrolyte instead of the liquid or gel found in traditional lithium-ion batteries. This design enhances the battery's safety, enables higher energy density, and ...

The advancement of high-voltage solid-state electrolytes constitutes a pivotal challenge for realizing practical solid-state lithium metal batteries (SSLMBs). This work overcomes intrinsic ...

Chinese electric vehicle makers are rapidly adopting solid-state batteries in their latest models, with industry experts anticipating full use of this superior solution for the next ...

Backed by Chery and Gotion High-Tech, China's Anoa New Energy (ANE) has started producing solid-state battery samples -- and says mass production could begin as early as next year. ...

Solid-state batteries

Solid-state batteries are attracting attention for their high energy density and safety but struggle to perform at room temperature due to sluggish ion transport and poor interface ...

Achieving uniform Li plating in solid-state batteries is key for their practical application. Here, the authors integrate a silver-doped lithium argyrodite layer in initially anode-free all-solid ...

China's tech giant claims 1,800-mile range for solid-state EV battery, files patent Huawei's patent application reveals that its battery uses a method of doping sulfide electrolytes with ...

Preview of the "Solid-state / Semi-solid Li-ion Battery Innovation & Patent Review", including sections on commercially relevant patents, benchmarking and identification of product launch risk factors.

With continued investment and innovation, solid-state batteries may soon become a game-changer for sustainable mobility solutions. The future of electric vehicles looks promising, and ...



Solid-state batteries

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