

Several Chinese key players in the all-solid-state sector, including BYD, unveiled an ambitious timeline for producing the game-changing battery by 2027, which signals China's determination to lead in next-generation battery ...

A solid-state battery replaces liquid electrolytes found in conventional lithium-ion cells with a solid separator, according to Car and Drive r. They also boast faster recharging capabilities, better ...

Chinese battery manufacturer Farasis Energy has begun pilot production of sulfide-based solid-state batteries. The company plans to deliver the first sample cells, with a capacity of 60 Ah, to strategic partners. Farasis Energy plans to ...

By rethinking the battery's core architecture, solid-state technology opens the door to safer, faster, and more energy-dense power sources for everything from EVs to smartphones. So, why did...

Mercedes-Benz Starts Testing Vehicles Equipped with Solid-State Batteries, with a Range of Up to 1,000 Kilometers! According to multiple media reports on July 25th, as reported by ...

Solid-state batteries, long heralded as the ideal energy solution for the new energy era with their high energy density, fast charging, and stability advantages, may face significant delays in ...

An anonymous reader quotes a report from Electrek: The "holy grail" of electric vehicle battery tech may be here sooner than you'd think. Mercedes-Benz is testing EVs with solid-state ...

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 ...

QuantumScape, a global leader in next-generation solid-state lithium-metal battery technology, today announced it is expanding the strategic collaboration and licensing arrangement 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.

California-based battery start-up QuantumScape is closing-in on the pilot production of solid-state battery cells. The Volkswagen Group has announced \$260+ million worth of recent ...

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 ...



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At a media event on July 17, MG brand General Manager Chen Cui confirmed that the new MG4 electric hatchback will be the first mass-market electric vehicle globally to feature a semi-solid-state battery. It will officially debut on August 5.

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 ...

Advanced Materials (7.8  $\mu\text{m}$ ) Ultrathin Polymer Electrolyte With Fast Ion Transport and ...

Chinese battery maker Svolt Energy will begin trial production of its first-generation semi-solid-state batteries in Q4 2025. The 140 Ah cells will be supplied to BMW's Mini brand, with mass ...

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 ...

The semi-solid-state batteries will be supplied to BMW Mini's next-generation models, with mass production planned for 2027. Svolt's first-generation semi-solid-state batteries have an energy density of 300 Wh/kg, with the second ...

This Special Issue presents 13 papers on solid-state/sustainable Li/Na-ion and wearable batteries, revealing intrinsic mechanisms from nanoscale reconfiguration to macroscopic device ...



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