

What is QuantumScape battery technology?

QuantumScape is on a mission to transform energy storage with solid-state lithium-metal battery technology. The company's next-generation batteries are designed to enable greater energy density, faster charging and enhanced safety to support the transition away from legacy energy sources toward a lower carbon future.

How will QuantumScape's lithium-metal solid-state batteries work?

QuantumScape's lithium-metal solid-state batteries will charge faster, go farther, last longer and operate more safely than today's EVs and gas-powered vehicles -- bringing us closer to that lower carbon future. Do you want to help build one of the most critical parts of the future energy economy?

Is QuantumScape a self-assembled EV battery?

Image (cropped): The California startup QuantumScape is one key step closer to commercial-scale production of its new solid state EV battery, featuring the only known self-assembling anode fabrication process in the auto industry (courtesy of QuantumScape).

Is QuantumScape ready for a 'Cobra' separator production process?

Solid-state battery developer QuantumScape shared another critical milestone today: its "Cobra" separator production process has been developed, delivered, installed, and is ready for initial separator processing.

What is a solid-state lithium-metal battery?

A: A solid-state lithium-metal battery is a battery that replaces the polymer separator used in conventional lithium-ion batteries with a solid-state separator. The replacement of the separator enables the carbon or silicon anode used in conventional lithium-ion batteries to be replaced with a lithium-metal anode.

What is QuantumScape doing in 2024?

The achievement was the last item on QuantumScape's list of goals for 2024, putting it on track to produce a higher volume of samples of its flagship commercial solid-state battery, the QSE-5. Every few months, solid-state technology specialist QuantumScape (\$QS) graces the public with a progress update, which is almost always interesting.

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KYOTO, Japan, November 21, 2024--QuantumScape Corporation (NYSE: QS), a leader in next-generation solid-state lithium-metal battery technology, yesterday gathered distinguished representatives, including battery equipment and materials suppliers, government leaders and automotive customers to discuss and strengthen the solid-state battery ecosystem. The Solid ...

QuantumScape Co. NYSE: QS is a battery technology company that has been developing its next-generation solid-state lithium-metal electric vehicle (EV) battery for nearly 15 years. The auto/tires/trucks sector company is in its final stages before commercialization commences in 2025, when they start shipping their commercial batteries to start generating ...

Solid-State Battery Landscape. February 16, 2021. ... At QuantumScape, we promise to treat your data with respect and will not share your information with any third party. You can unsubscribe to any of the investor alerts you are subscribed to by visiting the "unsubscribe" section below. If you experience any issues with this process ...

3 ???· Discover the exciting future of solid-state batteries in our latest article! We delve into their revolutionary benefits, including faster charging, enhanced safety, and increased lifespan, particularly in electric vehicles and consumer electronics. Learn about recent breakthroughs, key players like Toyota and QuantumScape, the challenges hindering production, and the ...

The VW logo stands on the brand tower at the Volkswagen main plant. Germany's Volkswagen Group has concluded a licensing deal with US company QuantumScape that will allow VW to produce solid-state ...

Updated March 22, 2021. Following the announcement of QuantumScape's solid-state lithium-metal battery technology results in December 2020, there has been a lot of excitement in the industry related to the potential of this new ...

QuantumScape is on the brink of transforming the electric vehicle landscape with its innovative solid-state batteries, promising ranges of up to 500 miles and lifespans of ...

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Payne's thoughts are shared by Volkswagen Group (VW), whose battery company, PowerCo (PCo), has partnered with one of the leading solid-state battery technology developers, QuantumScape (QS), to expedite the commercialisation of QS's solid-state battery technology. Fig 1: QuantumScape's multilayered solid-state battery. Partially owned by ...

QuantumScape Corporation (NYSE: QS), a leader in solid-state lithium-metal battery technology, today announced that next-generation heat treatment equipment for its separator production process, Cobra, has been developed, delivered, installed and released for initial separator processing. Achieving this milestone on schedule puts the company on track ...

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QuantumScape 100% Ceramic 4 >800 3.1 30 3.4 QS Shareholder Letter 1 >1000 3.2 30 3.4 KEY >=10 2-10 1 >=800 600-800 <600 >=3 <3 <=30 30-45 >45 <2 2-10 >=10 For a detailed description of the performance metrics and separator materials characteristics please refer to Solid-State Battery Landscape. PLEASE NOTE: The data presented above is made ...

SALZGITTER, Germany & SAN JOSE, Calif. -- July 11, 2024 -- Volkswagen Group's battery company PowerCo and QuantumScape (NYSE: QS) today announced they have entered into a groundbreaking agreement to industrialize QuantumScape's next-generation solid-state lithium-metal battery technology. Upon satisfactory technical progress and certain royalty ...

QuantumScape (NYSE: QS) hosted a Solid-State Batteries Symposium in Kyoto, Japan, bringing together battery equipment suppliers, materials suppliers, government leaders, and automotive customers to discuss the future of solid-state battery technology. The event featured speeches from Kyoto Mayor Koji Matsui and METI Director General Satoshi ...

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