The latest breakthrough in polyfluoride battery technology

Breakthrough in all-solid-state battery technology with a novel electrodeposition method increases efficiency and lifespan. A research team, consisting of Professor Soojin Park from the Department of Chemistry, PhD candidate Sangyeop Lee from the Division of Advanced Materials Science, and Dr. Su

Some dramatically different approaches to EV batteries could see progress in 2023, though they will likely take longer to make a commercial impact. One advance to keep an eye on this year is in...

Researchers from the Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS) have developed a new lithium metal battery that can be charged and discharged at least 6,000 times -- more than any other pouch battery cell -- and can be recharged in a matter of minutes.

Every year, we pick the 10 technologies that matter the most right now. We look for advances that will have a big impact on our lives and break down why they matter.

The battery retained 80% of its capacity after 6,000 cycles, outperforming other pouch cell batteries on the market today. The technology has been licensed through Harvard Office of Technology Development to Adden Energy, a Harvard spinoff company cofounded by Li and three Harvard alumni. The company has scaled up the technology to build a ...

Modern battery technology offers a number of advantages over earlier models, including increased specific energy and energy density (more energy stored per unit of volume or weight), increased lifetime, and improved safety [4].

3 ???· Compositional flexibility in irreducible antifluorite electrolytes for next-generation battery anodes+. Victor Landgraf, Mengfu Tu, Zhu Cheng, Alexandros Vasileiadis, Marnix Wagemaker * and Theodosios Famprikis * Faculty of Applied Sciences, Delft University of Technology, 2629 JB Delft, The Netherlands. E-mail: t.famprikis@tudelft ; m.wagemaker@tudelft

A breakthrough in electric vehicle battery design has enabled a 10-minute charge time for a typical EV battery. This is a record-breaking combination of a shorter charge time and more energy...

Solid-state batteries have been "coming soon" forever, but forever is finally here as China"s IM Motors L6 sedan is poised to become the first production vehicle to employ a solid-state ...

Solid-state batteries aren"t a new technology and were first developed in the 19th century. Even recent iterations pose dangers, as they can easily short out or catch fire due to dendrite ...

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Stanford"s breakthrough in lithium metal battery technology promises to extend EV ranges and battery life through a simple resting protocol, enhancing commercial viability. Next-generation electric vehicles could run on lithium metal batteries that go 500 to 700 miles on a single charge, twice the range of conventional lithium-ion batteries in EVs today.

Corporations and universities are rushing to develop new manufacturing processes to cut the cost and reduce the environmental impact of building batteries worldwide.

A pivotal breakthrough in battery technology that has profound implications ...

This article aims to provide guidance for researchers, policymakers, and industry stakeholders by discussing the latest developments, challenges, and potential of next-generation battery technologies. Specifically, ...

University researchers in China have made a potentially massive breakthrough in battery technology that could make large-scale versions even more affordable and widely available. According to...

From graphene-based energy storage and lithium-ion batteries with water to cheaper sodium-based batteries and solid-state batteries, here are the latest advances in battery technology. #1. Non ...

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