Development in battery technology

Founded in 1995 as a rechargeable battery manufacturer competing in the Chinese market against foreign brands, BYD -- short for Build Your Dreams -- has grown rapidly in development and production to become ...

Country: USA | Funding: $360M Powin Energy is a market leader in the manufacturing and development of energy storage technology used in stationary. Powin buys battery cells and hooks them up with proprietary ...

The integration of artificial intelligence (AI) into materials science has catalyzed a transformative revolution in energy storage technology, particularly in the development of advanced ...

Under the agreement, Volvo Group assumes responsibility for the laboratory"s advanced research capabilities in battery cell chemistry and material development. The transfer of operations and ...

The high-purity battery-grade lithium metal market is experiencing robust growth, driven primarily by the burgeoning electric vehicle (EV) sector and the increasing demand for energy storage ...

This led to the development of enhanced lithium battery technologies, incorporating improved chemical compositions and manufacturing processes to extend battery life and performance. The 1990s saw a shift towards more ...

The continuous progress in battery technology is vital for supporting diverse applications. Safety concerns and the need for high energy density have posed challenges for conventional liquid ...

Driven by robust new energy vehicle demand, China"s power battery industry has seen growing sales and production, with emerging technologies expected to accelerate its high-quality development, officials noted.

Major players like Ultralife, Saft, and EnerSys are heavily invested in research and development, continuously improving battery technology to meet the stringent requirements of the medical ...

Recognising the need for innovative solutions to tackle Scope 1 and 2 emissions, BHP is working closely with CATL to explore the application of existing and emerging technologies across its ...

Two projects led by the University of Oxford have received a major funding boost from the Faraday Institution, the UK"s flagship institute for electrochemical energy storage research. The funding is part of a £19 million ...

IDTechEx Research Article: The future of energy could be increasingly streamlined, sustainable, and efficient,

with battery developments and the integration of machine learning. This article explores the future of energy, from ...

Solid state battery maker QuantumScape is set to receive the first payments in a new deal with Volkswagen as it burns cash in the development of its lithium metal battery cells. QS has also signed another deal with an unnamed global ...

The battery industry moves at a fast pace: The articles Battery Technology publishes represent only a fraction of what"s happening in this quickly evolving industry. That"s the idea behind this curated and regularly updated ...

Tesla is finalizing its first North American LFP battery cell factory in Sparks, Nevada, marking a shift from Chinese imports. The plant will boost production, cut costs, qualify for U.S. tax ...

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 ...

In a quiet laboratory in Daejeon, South Korea, a breakthrough is unfolding--one that could change the future of batteries as we know them. Behind this transformative discovery is Dr. ...

Rechargeable Al-based batteries (RABs), including RAB, Al-S batteries and Al-metal batteries, have emerged as a promising next-generation solution, owing to Al"s abundance, low cost, ...

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