Tbilisi lithium-ion battery technology

A team of Chinese researchers has made a groundbreaking breakthrough to revive aging lithium batteries by injecting a "shot" of lithium ions, potentially extending their lifespan from the typical 6-8 years or 1,000-1,500 ...

The global lithium-ion secondary battery market is experiencing robust growth, driven by the burgeoning demand for electric vehicles (EVs), energy storage systems (ESS), and portable ...

A Cleaner, Cheaper Way to Make High-Performance Lithium-Ion Batteries A new breakthrough in battery chemistry could eliminate the use of cobalt and nickel in lithium-ion batteries.

July 2, 2025 Vanadium Redox Flow Batteries: A Safer Alternative to Lithium-Ion Technology As the global push for renewable energy accelerates, the demand for safe, sustainable, and ...

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 ...

Furthermore, 3D printing technology can be employed in the fabrication of solid-state electrolytes for lithium-ion batteries to enhance their conductivity and durability. The application of 3D ...

This study introduces DL-SBM, a deep learning surrogate model for fast and accurate prediction of lithium-ion battery behavior. Trained on synthetic electrochemical data, DL-SBM predicts ...

A research team in South Korea has developed a breakthrough transfer printing technology that forms protective thin layers on lithium metal surfaces--an innovation poised to solve the long-standing dendrite issue plaguing next ...

Octillion Power Systems, a California-based supplier of high-density lithium-ion battery packs for electric vehicles of all types, has expanded its existing partnership with Vision Marine ...

Potassium-ion batteries store more energy than sodium-ion options, making them ideal for large-scale green energy storage, according to a summary of recent research at Dongguk University ...

MASSIMO unveils the MileMax Lithium-ion E-rickshaw Battery, boasting long battery life and zero maintenance. The launch signifies a commitment to sustainable mobility with smart ...

YOGYAKARTA - In the midst of the increasing energy demand, especially in electronic devices and electric

vehicles, battery technology continues to develop. One of the most promising ...

Tesla is once again making headlines with its innovative approach to electric vehicle (EV) battery technology. The introduction of Tesla"s new lithium-iron-phosphate (LFP) battery tech marks a ...

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