

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 ...

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 ...

Lithium-ion technology offers a smarter, more sustainable alternative. Li-ion batteries deliver up to three times the service life of conventional systems, require no maintenance, and eliminate the ...

China has put export restrictions on technologies critical for producing electric vehicle batteries, in a move to consolidate its dominance in the sector that has contributed to the country's ...

The new generation of battery technology is central to China's success in building electric cars that are considerably cheaper than electric and gasoline-powered cars made in other countries.

The legacy lithium-ion battery technology that dominates the market for drones and other defense applications requires cobalt, nickel, manganese, and graphite--materials that flow through ...

This new approach avoids the use of harmful solvents and prevents damage to the sensitive lithium, solving some of the biggest problems that have held back lithium-metal battery development for years.

Published in the respected journal Energy Storage Materials, their work unveils a new transfer printing technology that gently laminates protective hybrid layers onto lithium metal--without ...

A new generation of battery technology could shift the balance of global EV supply chains, and Silicon Valley startup Lyten wants to lead the charge. The California-based firm, backed by automotive giant Stellantis, is betting on ...

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.

Solid-state batteries are expected to revolutionize energy storage, promising to be a safer, more efficient and higher-performing alternative to current lithium-ion (Li-ion) batteries. I T E N, a ...

China's Ministry of Commerce recently announced new export restrictions on "battery cathode material



Lithium battery new technology

preparation technologies," along with five lithium refining technologies and overseas ...

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 ...

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 ...

Lithium Iron Phosphate (LFP) Lithium Cobalt Oxide (LCO) Lithium Manganese Oxide (LMO) Lithium Nickel Manganese Cobalt Oxide (NMC) Lithium Nickel Cobalt Aluminium Oxide (NCA) Lithium Titanate (LTO) There are a few ...

New Potassium, Lithium Battery Research Targets Cheaper Energy Solutions Scientists in China and Spain develop low-cost potassium and lithium battery innovations to support global renewable energy and climate goals.

Scientists discover salt that makes batteries last 10x longer New research shows that sulfate ions reduce the amount of free water to increase the lifespan and performance of aqueous batteries ...



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