

# China discovers new energy battery technology

These discoveries in China and Sweden put forth new avenues for scientific research and industrial application. They introduce fresh dynamics in the global trade of critical raw materials. How each region leverages these finds, aligns them with their political, economic, and environmental objectives, and navigates through the global trading arena remains to be ...

A brand new substance, which could reduce lithium use in batteries, has been discovered using artificial intelligence (AI) and supercomputing.

30-million-ton lithium discovery makes China world's second-largest EV battery power. New site signals a potential 30 million ton addition to China's lithium resources, increasing global share ...

China "makes progress" in mineral resources, discovers 124 new deposits in a year. Chinese investment in mineral exploration grew for the third consecutive year, with over 110 billion yuan (US ...

Researchers in China have developed a water-based battery, which is claimed to be much safer and energy-efficient than "highly flammable" non-aqueous lithium batteries.

China's Betavolt New Energy Technology has unveiled a new modular nuclear battery that uses a combination of a nickel-63 ( $^{63}\text{Ni}$ ) radioactive isotope and a 4th-generation diamond semiconductor ...

China is reshaping the global energy landscape, setting its sights on an ambitious transformation driven by renewable energy. In its latest move, on October 30, 2024, the Chinese government unveiled the Guiding ...

It is essential in producing electric vehicles, lithium-ion batteries, and solar batteries - China's new major export products. Data from the General Administration of Customs show that China's total exports of the three ...

Fig 2 lists the top 10 battery system energy densities of each batch of BEVs in the "Catalog of New Energy Vehicle Models Exempt from Vehicle Purchase Tax" issued by the Ministry of Industry and Information Technology of China (MIIT) [17]. According to this figure, the energy density of the power battery system averaged 100 Wh/kg in 2015 and 170 Wh/kg in ...

CATL's "Shenxing Plus" battery drew attention for its high energy density and fast-charging capabilities, capable of achieving a 600-kilometer range with just a 10-minute charge, and maintaining ...

To systematically solve the key problems of battery electric vehicles (BEVs) such as "driving range anxiety,

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long battery charging time, and driving safety hazards", China took ...

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