



China's sodium battery technology patent application

This invention pertains to the field of sodium-ion battery material preparation and introduces a fiber-structured titanium-doped amorphous carbon coated silver hard carbon ...

China Southern Power Grid Guangxi Power Grid Company: On May 11, China's first large-capacity sodium-ion battery energy storage power station, the Fulin sodium-ion battery energy storage power ...

China Pioneers Sodium-ion Battery Production. The EV industry is poised for transformation as China begins mass production of sodium-ion batteries. These batteries offer a more accessible alternative to Lithium-ion models due to the global abundance of sodium. Chinese companies are now leading the way, making this technology widely available.

TAILG's Sodium-Ion Battery: A Leap in China's Electric Two-Wheelers; ... HiNa is an industry leader with over 100 core patents in sodium-ion technology. The company has been innovating for more than 12 years. ... CEO of Cygni Energy, partnering with HiNa allows them to explore exciting applications in sodium-ion technology. HiNa's CEO ...

A breakthrough in inexpensive, clean, fast-charging batteries First anode-free sodium solid-state battery Date: July 3, 2024 Source: University of Chicago

China has witnessed a significant advancement in electric vehicle (EV) technology with two new EV models powered by sodium-ion batteries rolling off the production line. This development marks a pivotal moment, indicating that sodium-ion batteries are moving closer to large-scale application in the EV industry.. Farasis Energy and JMEV's Collaborative ...

China's Hidden Battery: A Game-Changer for Global Industry; US DOE Allocates \$125 Million for Innovative Battery Technology; Top Sodium-Ion Battery Manufacturers to Watch in 2024; Toyota Prius: Swap Old Batteries for Sodium-Ion Cells; Sodium Ion Batteries Fuel Global Capacity Growth; Explore Korea's 5-Second Recharge Sodium Battery Prototype

?Sodium-ion Battery Cathode: Patent Application for Sodium Iron Sulfate Cathode Material by GEM?On September 11, 2024, GEM (Wuxi) Energy Materials Co., Ltd. submitted a patent application titled "A Modified Sodium Iron Sulfate Cathode Material and Its Preparation Method and Application," with a publication number of CN202410836207.6 and an ...

A brief review of milestone events in China's sodium-ion battery industry H1 2024 ... Huawei Technologies applied for a patent entitled "Sodium-ion Battery Composite Cathode Active Materials and Their Applications", CN117810379A, and the application date is September 2022 ... Three Gorges Energy Anhui Branch issued a tender for the development ...



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HiNa Battery Technology Co., Ltd is located in the Science and Technology Industrial Park, Zhongguancun, Liyang, Jiangsu Province. ... The company possesses a number of core Na-ion ion batteries patents including materials, ...

Pitch-based negative electrode material for sodium-ion battery, and preparation method therefor and applications thereof. Patent number: 11670774. Abstract: Embodiments of ...

It specifically addresses the issue of electrochemical performance degradation associated with the coating of sodium-ion cathode materials in current technologies, such as ...

Technology Overview & Benefits Sodium-ion batteries are an emerging commercial alternative to lithium-ion batteries for stationary storage and transportation applications due to the greater abundance and lower cost of sodium as well as their performance advantages at low temperatures. Applications and Industries Electrodes for use in Sodium-ion batteries for: ...

Dive into the future of energy storage with our Top 20 Sodium Ion Battery Companies In china article! Discover how industry leaders are revolutionizing rechargeable batteries, harnessing sodium for sustainable and efficient solutions. ... 22 software copyrights in the field of power grid applications, 15 international patents focusing on sodium ...

Previously, the largest operational sodium-ion system was China Southern Power Grid's Fulin 10 MWh BESS project, located in Nanning, southwestern China. The power station, which represents the ...

Sodium-ion Batteries 2024-2034 provides a comprehensive overview of the sodium-ion battery market, players, and technology trends. Battery benchmarking, material and cost analysis, key player patents, and 10 year forecasts are provided for Na-ion battery demand by volume (GWh) and value (US\$).

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The above-mentioned facility was jointly built by affiliates of Three Gorges, including China Three Gorges New Energy and Three Gorges Capital, as well as the municipal government of Fuyang, and HiNa Battery ...



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The EPO's Patent Index 2023 highlights that the field of electrical machinery, apparatus and energy, which includes clean energy inventions, was the fastest growing technology field with new European applications. 2023 applications increased by 12.2% in comparison to 2022, including both direct European applications and international (Patent ...

In two years, China will have nearly 95 percent of the world's capacity to make sodium batteries. Lithium battery production will still dwarf sodium battery output at that point, Benchmark ...

Sodium-ion batteries are at the forefront of China's latest advancements in energy storage technology. These batteries, which employ sodium ions, present a promising alternative to the well-established Lithium-ion batteries. While Lithium-ion batteries have long dominated the global market in areas such as Electric Vehicles and consumer electronics, the potential ...

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The sod-cutting ceremony was held on January 4 in Xuzhou Economic and Technological Development Zone, with representatives of all parties celebrating the first day of project construction, the local government announced today.. BYD's subsidiary Findreams Battery signed an agreement with tricycle giant Huaihai Group to construct the Xuzhou sodium battery ...

Patent filings at the European Patent Office (EPO) for solid state batteries have been growing on average by 25% per year since 2010. 6 In 2018, they represented more than 8% of all patent filings in lithium-ion technology, compared with 3% in 2010. 7 In CPC class H01M10/0562 8 alone, the number of patent families filed in the US and Europe has ...

The developing status and trends of the sodium sulfur battery technology with the huge application potential in energy storage and the strategic importance for supporting the development of new ...

China's Strength in Sodium-Ion Technology. China rapidly advanced in the Sodium-ion Battery sector. Patents filed by Chinese entities have significantly outnumbered ...

encompasses a relatively comprehensive analysis of the overall trend of patent applications for so- dium battery technologies both domestically and internationally, the countries and regional ...

From UK-based Faradion to the US's Natron Energy, global firms are racing to make a breakthrough in the potentially revolutionary sodium-iron battery technology. The huge interest could see the market balloon by nearly six times, from USD 860 million in 2022 to USD 4.8 billion in 2032, according to market analyst Precedence Research .



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4.4.2 Applications 4.4.2.1 China Sodium-Ion Batteries Market (by Application), Volume and Value Data ...
5.2.3.1.1 Role of HiNa Battery Technology Co., Ltd in the Sodium-Ion Batteries Market 5.2.3.1.2 Product Portfolio ... Patent Analysis (by Status), January 2019-December 2021

Battery Applications. Related Topics. ... Go inside China's New Large-Scale Sodium Battery ESS. The switch has been thrown at a 10-MWh-sodium-ion battery energy storage station in SW China--a milestone in scaling ...

Battery Applications. Related Topics. ... Go inside China's New Large-Scale Sodium Battery ESS. The switch has been thrown at a 10-MWh-sodium-ion battery energy storage station in SW China--a milestone in scaling the technology. ... China debuted its pioneering venture into large-scale sodium-ion battery technology with the inauguration of ...

From the published patent applications, there are nearly 1,900 patent applications for solid-state lithium-ion batteries; Since 2020, there have been over 1,000 patent applications for solid-state ...

It is the first application of sodium-ion batteries in new energy storage and new infrastructure of big data centers, the companies claimed. ... Sodium-ion battery technology is regarded by some as most commercially advanced non-lithium battery tech. ... What was claimed to be the world's first sodium-ion gigafactory was opened in China in ...

The embodiment of the application provides a sodium ion battery, including positive pole piece, negative pole piece, barrier film and electrolyte, wherein the barrier film plays the effect of...

CATL's latest patent could potentially increase the commercial viability of sodium-ion batteries, paving the way for their widespread adoption in electric vehicles, portable ...

NGK Insulators is a manufacturer of and deploys sodium-sulfur battery (NAS) energy storage systems that operate at high temperatures, have high storage capacity, long discharge times (6 + hours), and have a working life of 15 years. Its battery products have been commercially produced since 2002, and before the lithium-ion battery application boom, this ...

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