

What is a sodium ion battery?

Sodium-ion batteries can provide excellent low-temperature performance that outperform lithium-ion batteries. Prussian White is a cathode material for sodium-ion batteries that can achieve the same specific energy (Wh/kg) as lithium iron phosphate (LFP).

What is sodium-ion battery research?

Sodium-ion battery research is a rapidly developing field, and the landscape is constantly evolving. NEI is actively exploring new and improved cathode and anode materials to address the challenges of sodium-ion size and optimize performance.

What makes Nei a leader in the sodium-ion battery Revolution?

NEI is at the forefront of the sodium-ion battery revolution, supplying researchers and developers with the essential building blocks: advanced cathode and anode materials specifically designed for sodium-ion batteries.

Which NASICON material is best for a sodium ion battery?

With their exceptional Na-ion conductivity, NASICON materials are well-suited for this role. Sodium Aluminum Titanium Phosphate (or "NATP") is a NASICON material being explored as a potential solid electrolyte material for sodium-ion batteries (SIBs). Cathode, Anode, and Electrolyte materials are a key component of Sodium-ion batteries.

What is a CATL sodium ion battery?

CATL released the first-generation sodium-ion battery in July 2021, and obtained a patent for sodium-ion batteries including positive pole pieces, negative pole pieces, separators and electrolytes in August of the same year. Its energy density of 160Wh/kg is known as the highest in the world. Company profile:

Who makes lithium ion batteries?

One is start-up companies, and the other is established suppliers who have been engaged in the production of lithium-ion batteries and upstream raw materials for a long time, such as HiNa BATTERY, CATL (ranked first among Top 10 lithium battery companies) and other companies are about to mass-produce sodium-ion batteries.

Company News; Industry News; Contact Us; E-Catalogue; TEL: +86-180-5391-8077 Email: Joy@ame-energy ... NFPP-3A Sodium Battery Cathode Material. NaPF<sub>6</sub> Electrolyte for Sodium-Na ion batteries. NaClO<sub>4</sub> Electrolyte for Sodium-Na ion batteries. Kuraray Hard Carbon for Battery Anode Materials.

Litona produces and sells Prussian White cathodes for sodium-ion batteries. Our customers are university and non-university research groups worldwide, as well as industry. Get in touch with ...

IBU-Tec Unveils Sodium-Ion Battery Cathode Material; Fluor and Altris Collaborate: Launching the World's First Large-Scale Sodium-ion Battery Facility; ... The company has now brought sodium-ion batteries to the ...

A variety of cathode active materials--layered-transition-metal-oxide-based, phosphates, and Prussian blue analogs--also heavily determine the performance, cost, and impact on the climate change of a NIB," he told ...

Its use as a cathode material sets a new standard for cost-efficiency and environmental sustainability in battery technology. Redefining Efficiency and Sustainability The integration of Prussian white into sodium-ion ...

1. Anode. Material: Hard carbon, titanium-based compounds, and antimony-based materials are among the most researched anode materials for SIBs.; Function: During discharging, sodium ions migrate from the cathode to the ...

CATL announced its second-generation Sodium-ion Battery at the World Young Scientists Summit on November 18. This innovative battery will be launched in 2025. With this launch, CATL aims to further enhance the ...

BYD Pioneers with Sodium-ion Battery Technology. BYD's groundbreaking construction of a Sodium-ion Battery facility in Xuzhou, China, marks a strategic investment in electric vehicle (EV) innovation. With \$1.4 ...

Prussian White is a cathode material for sodium-ion batteries that can achieve the same specific energy (Wh/kg) as lithium iron phosphate (LFP). It does not rely on lithium, cobalt, nickel, copper or vanadium and is made of 100% abundant elements. These have the potential to significantly reduce the cost of battery cells.

The Chinese battery maker broke ground on a 30 GWh sodium-ion battery factory earlier this year. However, the development and design of its first utility-scale battery ...

Lithium-Ion Battery Material Supplier Anode Business Constantly Innovation &gt; ... BTR plans to construct a lithium battery cathode material project in Morocco with an annual production ...

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