

To provide a deep understanding of the progress, challenges, and opportunities of the emerging AKIBs, the recent advances in both cathode and anode materials, and electrolytes of the AKIB systems are ...

A sustainable aqueous potassium-ion battery was developed using manganese hexacyanoferrate and other cost-efficient materials, achieving high energy density and longevity ...

Some battery researchers are taking a fresh look at lithium's long-ignored cousin, potassium, for grid storage. Potassium is abundant, inexpensive, and could in theory enable a higher ...

Potassium-ion battery (KIB) is one of the latest entrants into this arena. Researchers have demonstrated that this technology has the potential to become a competing technology to the ...

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 ...

Potassium-ion batteries are emerging as a promising alternative to lithium-ion technology, offering higher energy density and cost efficiency. Researchers highlight key advances and future ...

Potassium-ion batteries (KIBs) are emerging as a promising alternative technology to lithium-ion batteries (LIBs) due to their significantly reduced dependency on critical minerals.

OverviewHistoryMaterialsAdvantagesApplicationsBiological potassium batteryOther potassium batteriesA potassium-ion battery or K-ion battery (abbreviated as KIB) is a type of battery and analogue to lithium-ion batteries, using potassium ions for charge transfer instead of lithium ions. It was invented by the Iranian/American chemist Ali Eftekhari (President of the American Nano Society) in 2004.

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