

New batteries for energy storage





Overview

In a new study recently published by Nature Communications, the team used K-Na/S batteries that combine inexpensive, readily-found elements — potassium (K) and sodium (Na), together with sulfur (S) — to create a low-cost, high-energy solution for long-duration energy storage.



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[Breaking It Down: Next-Generation Batteries](#)

But next-generation batteries--including flow batteries and solid-state--are proving to have additional benefits, such as improved performance (like lasting longer between each charge) ...

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By bridging the gap between academic research and real-world implementation, this review underscores the critical role of lithium-ion batteries in achieving decarbonization, ...

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Lithium-ion batteries and the future of sustainable energy: A

Lithium-ion batteries (LIBs) have become a cornerstone technology in the transition towards a sustainable energy future, driven by their critical roles in electric vehicles, portable electronics, ...

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Advancing energy storage: The future trajectory of lithium-ion battery

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batteries in achieving decarbonization, ...

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The Future of Energy Storage: Five Key Insights on Battery ...

Developments in batteries and other energy storage technology have accelerated to a seemingly head-spinning pace recently -- even for the scientists, investors, and business ...

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[The coolest new energy storage technologies](#)

It can feel impossible, at least for a nonspecialist, to stay current on research into new kinds of "regular" batteries, never mind those suitable for large-scale energy storage. One ...

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Top 10 Energy Storage Trends in 2025: The Future of Renewables

As the world shifts to renewable energy, scalability, affordability, and efficiency are key factors shaping the future. Here are the Top 10 Trends driving the industry forward in ...

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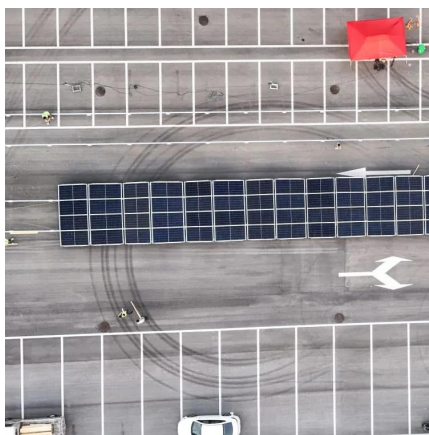




New quantum battery design promises nanoscale energy storage

New quantum battery design promises fast-charging, ultra-compact energy storage. It holds promise for nanoscale energy storage, optical quantum communication, and much more.

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A Review on the Recent Advances in Battery Development and Energy

In general, energy density is a crucial aspect of battery development, and scientists are continuously designing new methods and technologies to boost the energy density storage of ...

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Future of energy storage: 7 Powerful Trends in 2025

In 2023 alone, global battery storage additions reached 42 GW--more than double the previous year's installations. Looking ahead, experts predict 80 GW of new additions in ...

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Top 10 Energy Storage Trends & Innovations , StartUs Insights

In the last year, 98% of new battery energy storage system installations were lithium-ion batteries, maintaining their market leadership. However, new technologies are ...

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