

Columbia Engineering scientists are advancing renewable energy storage by developing cost-effective K-Na/S batteries that utilize common materials to store energy more efficiently, aiming ...

When the sun doesn't shine and the wind doesn't blow, humanity still needs power. Researchers are designing new technologies, from reinvented batteries to compressed air and ...

A new long duration energy storage system that deploys molten tin for heat transfer has received \$20 million in Series A Plus funding.

As the world shifts toward a more sustainable energy future, two essential innovations are emerging as key drivers of the energy transition: energy storage solutions and next-generation fuel ...

Look at the headlines and you will notice an arms race of a different kind: scientists unveiling forward-thinking ideas to store power in nuclear byproducts, engineers testing new forms of ...

Renewable energy sources like wind and solar are critical to sustaining our planet, but they come with a big challenge: they don't always generate power when it's needed.

The International Energy Agency and World Energy Council say a storage capacity in excess of 250 GW will be needed by 2030. The race is on to find alternatives; and progress is being made on refining ...

Whether it's recycling old batteries, developing new materials, or rethinking how we store power, these innovations will be critical in the clean energy transition.

Breakthroughs in battery technology are transforming the global energy landscape, fueling the transition to clean energy and reshaping industries from transportation to utilities.

Discusses battery applications in EVs, renewable energy storage, and portable electronics, linking research to practical needs. This manuscript provides a comprehensive overview ...

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