

A research team at the University of Genova has developed the spin quantum battery, an energy storage system that uses the spin degrees of freedom of particles.

Addressing the World Young Scientists Summit, chief scientist Wu Kai said the new battery will be launched next year - four years after the release of CATL's first sodium-ion battery in 2021. The first generation had an energy density of 160 Wh/kg, while the next one is expected to exceed 200 Wh/kg. Mass production of the new product is not ...

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Emerging technologies such as solid-state batteries, lithium-sulfur batteries, and flow batteries hold potential for greater storage capacities than lithium-ion batteries. Recent developments in battery energy density and cost reductions have made EVs more practical and accessible to ...

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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 ...

