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Energy storage provides solutions of smoothing spikes in energy demand, as well as compensating for fluctuations in energy production from renewable sources. The focuses of Energy Storage Materials and Catalytic Energy Materials research group at the Institute mainly include electrochemical storage technologies based on rechargeable batteries ...

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The governments of Macau and Hengqin on Wednesday signed a cooperation framework agreement with the world's largest electric vehicle (EV) battery manufacturer, Contemporary Amperex Technology Company Limited (CATL), to promote the development of the renewable energy industry in both regions.

A research team led by Hui Kwun Nam, associate professor in the Institute of Applied Physics and Materials Engineering (IAPME), University of Macau (UM), has recently made important progress in the research of anode materials for potassium-ion batteries, which is expected to provide solutions for poor cycling stability problems for the ...

(A) Schematic figure of the battery mechanism: the quasi-solid-state electrolyte enhances battery performance by regulating ion storage. (B) Voltage profile of the QSMB compared to a battery using traditional aqueous solution: the suppression of proton storage facilitates high-voltage Mg-ion insertion in the cathode.

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CHINA: Hitachi is to supply 15 lineside battery energy storage systems for the rubber-tyred light metro under construction in Macau. Hitachi says this will be the first metro to use lineside battery energy storage along its entire route, and it expects this to reduce electricity consumption by 10%.

Within just 320 days, the company transformed a 270,000-square-meter wasteland into a lithium-ion battery manufacturing base and a research and development center, as reported by China Central ...

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