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Its capacity retention remains about 90.5 percent after 500 charge-discharge cycles and over 80 percent of capacity can be maintained after bending the fiber for 100,000 ...

Herein, ultra-low-temperature Li-CO<sub>2</sub> batteries are demonstrated by designing 1,3-dioxolane-based electrolyte and iridium-based cathode, which show both a high deep discharge capacity of 8976...

In this work, through in-depth analysis of battery aging data, an incremental slope (IS) aided feature extraction method is proposed to obtain universal multidimensional features that adapt to...

Accordingly, the SCOF-2 modified batteries deliver a high rate capacity of 479 mAh g<sup>-1</sup> at 5 C current, an ultralow attenuation rate of 0.047% per cycle over 800 cycles at 1 C, and an excellent...

These swimmable MBs exhibit an impressive areal capacity of 102.3 uAh cm<sup>-2</sup>, remarkable waterproofing, adjustable output voltage or capacity, rapid response, and accurate remote ...

The resultant battery fiber shows a high specific capacity (371 mA h g<sup>-1</sup> at 200 mA g<sup>-1</sup>), stable cyclability (91% capacity retention after 5000 cycles at 5 A g<sup>-1</sup>), and can be efficiently recharged to ~60% upon exposure to air. Finally, we demonstrate a self-charging battery fiber to effectively power a strain sensor in an integrated, wearable fingertip.

With calcium 2,500 times more abundant than lithium, battery offers viable option with theoretically comparable energy density, Fudan University scientists say in paper for Nature.

Herein, for the first time, a new family of fiber-shaped lithium-air batteries with high electrochemical performances and flexibility has been developed. The battery exhibited a discharge...

shaped battery was flexible and able to sustain thousands of repeated deformations with only a small decrease in capacity: The capacity remained at 97% after bending for 1000 cycles. The wire-shaped battery was further made into a spring structure to obtain a very elastic device. The capacity remained at 84% after the elastic battery had been ...

To improve the cycling stability and rate capability of Ni-Zn batteries, carbon dots (CDs) are employed to construct clustered ZnO-CDs nanocomposites, coating ZnO with protective shells ...

## Fudan battery capacity

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To improve the cycling stability and rate capability of Ni-Zn batteries, carbon dots (CDs) are employed to construct clustered ZnO-CDs nanocomposites, coating ZnO with protective shells of carbon...

Solid-state electrolytes (SSEs) are capable of inhibiting the growth of lithium dendrites, demonstrating great potential in next-generation lithium-ion batteries (LIBs). However, poor room...

On Windows 11, you can use the PowerCfg command-line tool to create a battery report to determine the health of the battery and whether it is ready for replacement. In this guide, I'll show you how.

In this study, to achieve a high reversible capacity with stable cyclability, we have fabricated an anode consisting of graphene-supported MgH<sub>2</sub>@polythiophene (PTh) core shell NPs (G/ - ...

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