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A stretchable wire-shaped lithium-ion battery is produced from two aligned multi-walled carbon nanotube/lithium oxide composite yarns as the anode and cathode without extra ...

Different shapes of lithium-ion batteries (LIB) are competing as energy storages for the automobile application. The shapes can be divided into cylindrical and prismatic, ...

Here, a hierarchical Se/chitosan derived nitrogen and oxygen dual-doped porous carbon/Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> (Se-NOCT) fiber is proposed via microfluidic spinning method prior ...

A carbon nanostructured hybrid fiber is developed by integrating mesoporous carbon and graphene oxide into aligned carbon nanotubes. This hybrid fiber is used as a 1D ...

Here, a hierarchical Se/chitosan derived nitrogen and oxygen dual-doped ...

The fiber-shaped lithium ion battery was performed in a gel electrolyte with an output voltage of 3.4 V, in line with the voltage difference between LMO (4.0 vs. Li/Li<sup>+</sup>) and Si (0.6 vs. Li/Li<sup>+</sup>). The initial specific ...

Moreover, lithium battery mirrors feature side-mounted, easily rechargeable batteries via USB-C, whereas AAA battery mirrors need to be removed from the wall for battery changes, offering ...

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Experiments in ultrafast-charging batteries have now revealed that lithium intrinsically forms geometrically perfect 12-face polyhedra, independently of various factors ...

Additionally, the fiber-shaped Li-S battery works effectively under deformation and high/low-temperature conditions. It can be integrated into the fabric to power light emitting ...

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Twisted Aligned Carbon Nanotube/Silicon Composite Fiber Anode for Flexible Wire-Shaped Lithium-Ion Battery. Huijuan Lin, Huijuan Lin. State Key Laboratory of Molecular ...

The comprehensive understanding of the local structural changes surrounding lithium in lithium silicate ( $\text{Li}_x\text{SiO}_y$ ) and silicide ( $\text{Li}_x\text{Si}$ ) within  $\text{Li}/\text{SiO}_x$  batteries during the ...

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use the hybrid fiber as sulfur cathode to fabricate a cable-shaped lithium sulfur battery. It demonstrates improved longevity and remarkable compliance with deformation, making it out ...

Super-stretchy: A novel and safe wire-shaped lithium-ion battery consists of two composite yarns, which were made from aligned multi-walled carbon nanotubes (MWCNT) and lithium titanium ...

A Cable-Shaped Lithium Sulfur Battery Xin ang, F Wei Weng, Jing Ren, and Huisheng Peng\* X. Fang, Dr. W. Weng, J. Ren, Prof. Dr. H. Peng ... Here, we report a 1D cable-shaped lithium ...

Different shapes of lithium-ion batteries (LIB) are competing as energy ...

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