Healable and conductive sulfur iodide for solid-state li-s batteries

The design of this conductive, low-melting-point sulfur iodide material represents a substantial advancement in the chemistry of sulfur materials, and opens the door to the practical ...

UC San Diego engineers developed a cathode material for lithium-sulfur (Li-S) batteries that is healable and highly conductive, overcoming longstanding challenges of traditional sulfur cathodes. The advance holds ...

The Actions of Iodide and TSH on Thyroid Cells Showing a Dual Control System for the Iodide Pump Controlled generation of highly saddled (porphyrinato)iron (iii) iodide, tri ...

Researchers developed a new cathode material for solid-state lithium-sulfur batteries that is electrically conductive and structurally healable, features that overcome the limitations of these batteries" current cathodes.

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By adding iodine (I) to a solid-state lithium sulfur (Li-S) battery (SSLSB), scientists yielded vastly improved conductivity and a low melting point that promotes self-repair ...

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As a result, an Li-S 9.3 I battery demonstrates 400 stable cycles with a specific capacity retention of 87%. The design of this conductive, low-melting-point sulfur iodide ...

The design of this conductive, low-melting-point sulfur iodide material represents a substantial advancement in the chemistry of sulfur materials, and opens the door to the practical realization of SSLSBs.

Healable and conductive sulfur iodide for solid-state Li-S batteries Solid-state Li-S batteries (SSLSBs) are made of low-cost and abundant materials free of supply chain concerns. Owing to their high theoretical energy densities, they ...

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