

Overall recycling of graphite in energy storage stations

How is spent graphite recycled?

Remarkably, the currently used recovery processes for spent LIBs are primarily focused on the cathode materials, while less attention has been paid to carbon-based anode materials. Spent graphite recycling has mainly focused on two critical strategies: separation and reuse.

What is the retirement mechanism of spent graphite?

The retiring mechanism of spent graphite is complex and diverse under different working conditions, making it necessary to accurately identify the failure mode to research recycling technologies in a targeted manner to reduce recycling costs.

Can graphite be recycled?

With the explosive growth of spent lithium-ion batteries (LIBs), the effective recycling of graphite as a key negative electrode material has become economically attractive and environmentally significant. This review reports the recent research progress in recycling strategies for spent graphite from the perspectives of separation and reuse.

Can battery-grade graphite be recycled?

This review provides an extensive analysis of the recycling and regeneration of battery-grade graphite obtained from used lithium-ion batteries. The main objectives are to address supply-demand challenges and minimize environmental pollution.

Why is graphite recycling important?

Consequently, the recycling and reuse of graphite materials offer significant economic value and social benefits [14-15]. The recycling and regeneration process of graphite from spent batteries encompasses various stages, including battery disassembly, product separation, graphite purification, and the utilization of advanced applications [16-17].

Can graphite be used for high-quality energy storage?

The main objectives are to address supply-demand challenges and minimize environmental pollution. The study focuses on the methods involved in obtaining, separating, purifying, and regenerating spent graphite to ensure its suitability for high-quality energy storage.



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