



Environmental impact assessment of lithium-ion batteries for communication base stations

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Understanding the environmental impact of electric vehicle batteries is crucial for a low-carbon future. This study examined the energy use and emissions of current and future battery ...

As an important part of electric vehicles, lithium-ion battery packs will have a certain environmental impact in the use stage. To analyze the comprehensive environmental impact, 11 lithium-ion battery ...

Life cycle assessment (LCA) is used in this study to compare the environmental impacts of repurposed EV LIBs and lead-acid batteries (LABs) used in conventional energy storage systems...

The growing demand for lithium-ion batteries (LIBs) in smartphones, electric vehicles (EVs), and other energy storage devices should be correlated with their environmental impacts from production to ...

This study offers implications to mitigate the end-of-life management problem of EV LIBs, including a life cycle management platform, an effective integration of the supply chain, and references for the ...

The lacuna in the LCA from previously published literature has been upgraded in our current study, which provides a thorough picture of how batteries affect the environment at every ...

This study conducts a comparative assessment of the environmental impact of new and cascaded LFP batteries applied in communication base stations using a life cycle assessment ...

Second-life use of electric vehicle lithium-ion batteries (LIBs) is an inevitable trend; however, battery performance degradation increases environmental loads.

Repurposing spent batteries in communication base stations (CBSs) is a promising option to dispose massive



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spent lithium-ion batteries (LIBs) from electric vehicles (EVs), yet the ...

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