Do supercapacitors for communication base stations require environmental impact assessment

Despite the abundant sup-ply and potential utility of these materials, there is a lack of studies dedicated to evaluating their environmental impact when incorporated into supercapacitors.

This study presents an environmental impact assessment of critical raw material (CRM)-free supercapacitor electrode materials derived from building materials, specifically cement.

Supercapacitors have numerous applications in which high power, long cycle life, and rapid recharging are required. However, the environmental assessment of supercapacitors has been ...

Generally, supercapacitors offer benefits in energy effectiveness and reliability, but their environmental impact throughout their lifecycle must be carefully managed.

Despite their technological maturity, little is known about their environmental and economic implications from a life cycle perspective. This review offers an insight into life cycle ...

Recent trends in the ICT industry have shown the importance of sustainability as companies across various verticals aim to reduce their carbon emission.

PDF | On Jun 18, 2024, Fatemeh Bahmei and others published Sustainability Considerations of Supercapacitors: A Review of LCA and LCC studies | Find, read and cite all the research you need ...

This study aims to assess the environmental impacts of manufacturing AC and electrodes for supercapacitors from waste materials, utilizing the life cycle assessment (LCA) principles.

While supercapacitors can provide valuable electrical functions to the grid, sometimes rules and regulations are defined in such a way that supercapacitors do not meet the criteria.

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