

Title: Lithium ion battery literature review

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have emerged their initial commercialization in the early 1990s, lithium-ion batteries (LIBs) their energy cornerstone cycle life, of dominance in electronic broad energy technology. [1] .

Following the preferred reporting items for systematic reviews and meta-analyses (PRISMA) framework, 46 peer-reviewed articles published between 2014 and 2024 were selected ...

According to the United States environmental protection agency (EPA), every burned gallon of gasoline generates 8.87 Kg of CO<sub>2</sub>. The pollution created by vehicle.

Abstract Lithium-ion batteries are widely recognised as the leading technology for electrochemical energy storage. Their applications in the automotive industry and integration with ...

Recent breakthroughs in Lithium-ion battery research and development are scrutinized. The potentials of Lithium-ion batteries as a sustainable energy storage solution are explored. Current ...

Furthermore, the review highlights emerging technologies such as lithium-sulfur and solid-state batteries, which promise transformative gains. This review identifies significant gaps by ...

Although Li-ion batteries are widely accepted, the health and safety of such batteries must be inspected. A large body of literature addresses the various difficulties associated with Li-ion ...

Specific overviews on aspects such as international policy changes, the implementation of cloud-based systems with deep learning capabilities, and advanced EV-based LIB electrode materials are ...

In this review, we address waste LIB collection and segregation approaches, waste LIB treatment approaches, and related economics.

Critical review of Design of Experiments applied to different aspects of lithium-ion batteries. Ageing,

