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By integrating theoretical insights with practical applications, this review not only synthesizes the state-of-the-art in LIB thermal management but also provides actionable guidelines ...

Lithium-ion batteries are frequently employed as power sources in a range of hybrid models; however, the efficiency of the battery in these systems is significantly affected by the operating temperature. ...

ed for thermal management and energy storage ... This paper has been prepared to show what these systems are, how they work, what they have been designed for, . nd under what ...

In conclusion, this investigation highlights the critical importance of advanced thermal management for the safe and efficient operation of lithium-ion battery energy storage systems, ...

Since temperature directly impacts both performance and degradation, improper thermal management can accelerate degradation, further diminishing efficiency and battery lifetime. ...

Effective battery thermal management (BTM) is crucial in maintaining the safety, efficiency, and lifespan of lithium-ion batteries, particularly in scenarios such as electric vehicles ...

To address safety hazards from battery thermal runaway and efficiency losses caused by temperature non-uniformity, a systematic review is conducted on the evolution of thermal management ...

By exploring various thermal models and incorporating advanced cooling techniques, we can improve battery management and extend the battery"s remaining useful life.

The main goal of this review paper is to offer new insights to the developing battery community, assisting in the development of efficient battery thermal management systems (BTMS) ...

This review systematically focuses on the critical role of battery thermal management systems (BTMSs), such as active, passive, and hybrid cooling systems, in maintaining LIBs within ...

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