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This paper provides a comprehensive review of the research progress, current state-of-the-art, and future research directions of energy storage systems. With the widespread adoption of renewable energy sources such as wind and solar power, the discourse around energy storage is primarily focused on three main aspects: battery storage technology, ???





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In particular, energy storage systems play an utmost important role for smart grids and smart buildings that involving high renewables with the nature of intermittent power outage. Moreover, electric, hybrid and fuel-cell vehicles can offer zero or ultralow emissions, which heavily rely on using on-board energy storage such as batteries, fuel



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