

Researchers in China have developed a promising new design for solid-state sodium batteries using a tin-based interlayer to solve long-standing performance problems. The approach ...

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Iron/iron redox flow batteries (IRFBs) are emerging as a cost-effective alternative to traditional energy storage systems. This study investigates the impact of key operational characteristics, ...

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In Li-ion battery systems, poor consistency among cells is widely recognized as a core issue impacting the performance, safety, and lifespan of the entire battery pack. It not only limits the effective energy output but also introduces risks ...

The design of electrode parameters is a crucial determinant of the rate and quantity of lithium storage, which directly impacts the energy density and overall performance of lithium-ion ...

Given the rising importance of cost-effective solutions in battery research, this study employs an accessible testing approach using low-cost, sensor-equipped platforms that enable broader ...

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