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Title: Developing high-performance energy storage devices

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Nanostructuring is becoming key in controlling the electrochemical performance and exploiting various charge storage mechanisms, such as surface-based ion adsorption, ...

As one of the most intensively investigated biomaterials, proteins have recently been applied in various high-performance rechargeable batteries. In this review, the ...

The pursuit of renewable energy is urgent, driving innovations in energy storage. This chapter focuses on advancing electrical energy storage, including batteries, capacitors, ...

It also outlines future requirements for advancing the field. This review addresses the challenges and prospects of developing advanced energy storage devices and suggests ...

By connecting materials design with practical implementation, this work outlines a forward-looking framework for advancing the next ...

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By navigating the intricate landscapes of these research endeavours, we aim to chart a comprehensive

understanding of the potential and challenges associated with novel materials ...

In this review, the opportunities and challenges of using protein-based materials for high-performance energy storage devices are discussed.

Experts have developed various strategies to optimize electrode materials for high-charge-density systems, including defect construction, the use of high-entropy materials, ...

By connecting materials design with practical implementation, this work outlines a forward-looking framework for advancing the next generation of high-efficiency, flexible energy ...

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