

Recent progress in the synthesis of carbon materials from biomass and coal/heavy oil waste and their use as the electrode materials of supercapacitors and Li-ion ...

Carbon dots (CDs) and their composites as energy storage materials and electrocatalysts have emerged as new types of quasi-zero-dimensional carbon ...

Carbon materials are one of the most versatile materials that play a key role in different energy storage devices because their outstanding properties like high conductivity and ...

Biomass-derived carbonaceous materials have attracted significant research interest for their potential applications in energy storage devices due to ...

6 · Abstract Given that carbon-based materials serve as the crucial electrode materials in electrochemical energy storage devices, it is of significance to comprehensively understand ...

Porous carbon materials are at the core of many energy storage and conversion technologies. Accordingly, demand for them is steadily increasing. To satisfy this demand ...

Because of their availability, adjustable microstructure, varieties of forms, and large specific surface area, porous carbon materials are of increasing interest ...

Carbon dots (CDs) and their composites as energy storage materials and electrocatalysts have emerged as new types of quasi-zero-dimensional carbon materials. CDs can provide a large ...

Sustainable energy conversion and storage technologies are a vital prerequisite for a neutral carbon future. Therefore, carbon materials with attractive features, ...

A review on carbon materials for electrochemical energy storage applications: State of the art, implementation, and synergy with metallic compounds for supercapacitor and ...

Researchers are investigating combining carbon composites with nanomaterials, such as metal oxides and polymers, to create hybrid electrode materials that have ...

The dimensionality design of functional carbon materials towards high-energy and high-power electrochemical energy storage (EES) devices is summarized as ...

Authors investigated phase change materials (PCM) based on the carbon for application in thermal energy

storage. In this manner, expanded graphite and carbon ...

Due to the catalytic deficiency of neutral carbon atoms, the usage of single lignocellulosic-based carbon materials in electrocatalysis involving energy storage and ...

Biomass-derived carbon materials (B-d-CMs) are considered as a group of very promising electrode materials for electrochemical energy storage (EES) by ...

Then Wang synthesized the novel material, an oxygen-rich carbon framework for storing and transporting charge. The carbon was activated to generate more pores and add ...

In this context, the present review article summarizes the history of supercapacitors and the basic function of these devices, the type of carbon electrode materials, and the different strategies to ...

Given that carbon-based materials serve as the crucial electrode materials in electrochemical energy storage devices, it is of significance to comprehensively understand their energy ...

This work focuses on the use of carbon materials for both batteries and supercapacitors, including insights into the mechanisms of electrochemical energy storage.

Electrochemical renewable energy technologies are receiving increasing attention for overcoming the serious energy crisis and environment deterioration. The versatile electrode ...

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