

Among the various carbon precursors, low-cost coal and coal derivatives are preferred due to their unique carbon structure with high carbon content. A variety of coal ...

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 ...

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 ...

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 ...

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 ...

Developing a clean and novel energy storage system is the need of the hour due to the immediate consumption of fossil fuels and the escalation of environmental concerns. The ...

