

New Book Information

Nanocomposites for Electrochemical Capacitors

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Handbook

The book explores recent developments in the area of composite applications for supercapacitor electrodes based on conducting polymers, graphene, biomass, or carbonaceous quantum dots. Synthesis strategies of composite materials and electrode preparation methods are discussed in detail.

Keyword: Electrochemical Capacitors, Supercapacitors, Energy Storage, Supercapacitor Electrodes, Conducting Polymer Composites, Graphene-based Composites, Biomass-based Capacitors, Carbonaceous Quantum Dot Composites, Sol-Gel Synthesis, Sonochemical Synthesis, Polyaniline-Zirconia Nanofibers

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Summary:

Electrochemical capacitors or supercapacitors offer a number of advantages over batteries; they are more safe and reliable, charge quicker, have an indefinite lifespan, exhibit a high power density and a wide range of working temperature. Supercapacitors demonstrate an extraordinary potential in both consumer electronics and large-sized energy storage applications, e.g. in communications, transportation, aviation, and power industries.

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