

Special Issue

Supercapacitors: From Porous Materials to Applications

Message from the Guest Editor

The energy crisis and rapid growth in global pollution are major issues over the world. Because of the evolution of modern industries, the vast development of electronic devices has prompted an increasing demand for energy. Electrochemical energy conversion is considered to be the most effective technology for storing energy. One of the most commonly used electrical energy storage devices is the supercapacitor. Electrode materials play a decisive role in obtaining higher energy densities. Porous materials are widely used electrode materials due to their high surface areas and porosities. The architecture and microstructure of porous materials, such as pore size distribution, pore size, and pore connectivity, are considered to be key factors for determining electrochemical performance. This Special Issue focuses on “Supercapacitors: From Porous Materials to Applications”. The present Special Issue will address developments in the field of the design and development of porous materials, including porous carbons, MOFs, COFs, transition metal oxides/sulfides, and so on for supercapacitor applications. Dr. Pei-Hsin Young

Guest Editor

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