Special Issue

High Performance Supercapacitors for Green Energy Storage

Message from the Guest Editor

In 2003, Nobel Laureate Richard E. Smalley delineated that energy is the topmost problem faced by human society. Supercapacitors are one of the advanced energy storage devices, have been drawing significant attention lately, because of their unique advantages such as pulse power supply, rapid charging time, outstanding service life, and operational safety. Supercapacitors are emerging as a substitute power source over conventional batteries for a wide range of applications in electric vehicles, portable electronics, energy harvesting systems. However, the major challenge for supercapacitors is their insufficient energy density, which limits their more widespread applications. This Special Issue includes, but is not limited, the following topics: Green materials for energy storage; Nanostructured metal oxides as an electrode for supercapacitors; Supercapacitors for high-temperature applications; Chalcogens for energy storage applications; Carbon and related structure as an electrode material; Flexible supercapacitors; Polymers for supercapacitors

Guest Editor

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