Special Issue

Advances in High-Performance Supercapacitor

Message from the Guest Editors

The global community will soon be witnessing a significant scarcity of energy as conventional energy resources are being depleted day by day. Therefore, alternative renewable energy resources such as solar energy, wind energy, ocean energy, etc. are attracting an enormous amount of attention. Unfortunately, almost all renewable energy resources are intermittent in nature, and it is difficult to generate energy continuously. As such, there is a need to store the energy that is produced during the presence of energy sources and utilize it in the absence of energy sources. Supercapacitors are emerging as prominent energy storage devices owing to their unique properties, such as sharp charge/discharge rates and longer lifetimes. However, for commercial usage, the energy density of supercapacitors should be enhanced. Therefore, the current Special Issue focuses on the development of novel electrodes and electrolytes for the enhancement of the energy density of the device.

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Deadline for manuscript submissions

closed (10 May 2023)

Batteries

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 6.6

mdpi.com/si/147038

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