Special Issue

Carbon-Based Electrode Materials for Batteries and Supercapacitors

Message from the Guest Editors

Supercapacitors are considered high-power-density devices with excellent cyclability and extraordinary efficiencies. Electrodes are one of the key components of a supercapacitor or a battery system, and can have a significant impact on their performance. Carbon-based active materials are predominantly used as electrodes in these devices, i.e., graphite and activated carbon for batteries and supercapacitors, respectively. The physical characteristics and chemical composition of these carbon-based electrode active materials can impact the performance of these electrochemical energy storage devices. Topics of interest include but not limited to:

- The synthesis of carbon nanomaterials (activated carbon, synthetics carbon, graphene, carbon nanotubes, and graphite).
- The physical, chemical, and electrochemical characterisation of nano-carbons.
- Carbon as an active material for supercapacitor applications.
- Carbon-based electrodes for rechargeable batteries.

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Deadline for manuscript submissions

closed (31 October 2023)

Batteries

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 6.6

mdpi.com/si/173734

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