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Electrode Materials for Electrochemical Supercapacitors

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Message from the Guest Editors

Dear Colleagues,

Energy storage is a vital component of the energy system due to the enormous energy requirements of modern society. Three primary energy storage devices that can store energy include batteries, fuel cells, and supercapacitors. Of these, supercapacitors (SCs) or electrochemical capacitors have great potential in portable electronics, power grids, hybrid electric vehicles, and so on. Generally, electrochemical supercapacitors' performance relies on the physical and electrochemical properties of their electrode materials. Given the increasing demand for supercapacitors, developing corresponding electrode materials that are richer in faradaic reactions, valence states, longstanding stability, and earth abundance is necessary. Therefore, this Special Issue focuses on new electrode materials preparation and their application in electrochemical supercapacitors. Potential topics include, but are not limited to:

- Electrical double layer capacitor-type electrode materials;
- Pseudocapacitor-type electrode materials;
- Battery-type electrode materials;
- Asymmetric/Hybrid supercapacitors;
- Hierarchical materials for supercapacitors.

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Message from the Editor-in-Chief

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