Special Issue

High-Performance Supercapacitors: Preparation and Application—2nd Edition

Message from the Guest Editor

The success of the supercapacitor technology largely depends on the improvement of its critical properties, such as the energy storage capabilities of the supercapacitor materials and devices. To improve supercapacitor technology, research has been conducted to improve the energy storage capabilities of electrodes, which determine the specific capacitance of the material. Additionally, people are also working to enhance these supercapacitor devices via modeling and system development studies. Therefore, what is the current status of the field, and what can we expect in the future? This Special Issue discusses the current status and future trend of supercapacitor material and device development, which are important to enhance their performances. Potential topics include, but are not limited to, the following:

- Novel supercapacitor materials, positive electrodes, negative electrodes, and electrolytes;
- Electrode designs;
- Supercapacitor device designs;
- Electrochemical test methods;
- Modeling;
- Supercapacitor system studies.

Guest Editor

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Editor-in-Chief

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