Special Issue

Advanced Electrode Materials and Novel Device Designs for Supercapacitors

Message from the Guest Editors

In this Special Issue, I would like to invite submissions of papers on advanced electrode materials and novel device designs for the latest supercapacitors. With the increasing importance of electrochemical energy storage, the development of supercapacitors is accelerating. Many advanced materials have been used as supercapacitor electrodes like carbon-based nanomaterials, metal oxides/sulfides/selenides/phosphides, conducting polymers and hybrid nanocomposites along with some novel materials like MXenes, metal-organic frameworks, metal nitrides, and covalent organic frameworks. Various novel supercapacitor device designs such as flexible supercapacitors, micro-supercapacitors, battery-supercapacitor hybrid devices, electrochromic supercapacitors, photo-supercapacitors, thermally chargeable supercapacitors, high-frequency supercapacitors and self-healing supercapacitors have also been developed for high performance or special applications. It is expected that these advanced electrode materials and emerging device designs will propel supercapacitors to get a limitless foreground in the future.

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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