

Special Issue

Fabrication, Structure, and Supercapacitance of Porous Carbon Nanomaterials

Message from the Guest Editors

As the secondary batteries and supercapacitors cannot meet the development of today's society regarding the energy system. Therefore, it is important to synthesize electrode materials with good electrochemical properties to promote the wide application of supercapacitors. Porous carbon materials, especially nanostructured porous carbon materials, have become the main electrode materials for commercial capacitors due to their large surface area, high conductivity, low cost and high chemical stability.

This Special Issue will focus on the research and development of advanced nanostructured porous carbon materials for supercapacitors. Original research articles and reviews dealing with advanced porous carbon nanomaterials in the field of materials, novel preparation methods, creatively designed and controllable structures, and system development are all welcome. In addition, submissions dealing with high-performance lithium-ion capacitors developed with porous carbon nanomaterials, physicochemical characterization strategies for porous carbon nanomaterials, and the mathematical modeling of structure-property relationships, will also be encompassed in the Special Issue.

Guest Editors

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Deadline for manuscript submissions

closed (20 December 2024)



Materials

an Open Access Journal
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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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About the Journal

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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