materials

IMPACT FACTOR 3.2

Indexed in: PubMed

CITESCORE 6.4

an Open Access Journal by MDPI

Porous Carbon Nanomaterials and Their Composites for Energy Storage

Guest Editors:

Prof. Dr. Chunxu Pan
School of Physics and Technology, Wuhan University, Wuhan 430072, China

Dr. Li Sun
Northwest Institute for Non-ferrous Metal Research, Xi'an 710016, China

Deadline for manuscript submissions:
20 August 2025

Message from the Guest Editors

Dear Colleagues,

Carbon nanomaterials have been widely used in electrochemical energy storage devices (lithium-ion batteries and supercapacitors), especially porous carbon nanomaterials, due to their stable structure, wide source of raw materials, and rich variety. The specific surface area, pore size distribution, surface infiltration, microscopic morphology, and doping of atoms and composites with nanomaterials have large effects on the electrochemical properties of porous carbon nanomaterials. Therefore, it is urgent to seek novel high-performance porous carbon and its nanocomposites for electrochemical energy storage devices.

This Special Issue, titled "Porous Carbon Nanomaterials and Their Composites for Energy Storage", aims to explore the latest developments in porous carbon nanomaterials and their composites for electrochemical energy storage devices. The topics of interest include but are not limited to novel preparation techniques, carbon nanomaterials with advanced structure, high-performance porous carbon and its composites, and carbon-based electrode materials with special properties (compressible, stretchable, foldable, etc.).

materials

IMPACT FACTOR 3.2 | Indexed in: PubMed | CITESCORE 6.4

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
𝕏@Materials_Mdpi