Special Issue

Advances in Porous Materials: Synthesis, Characterisations and Applications (2nd Edition)

Message from the Guest Editors

Porous materials have shown great potential in catalysis, biosensor and biomedical, energy storage and conversion, aerospace, and architecture applications owing to their high surface area, low density, and high specific strength. Porous materials have the structural feature of continuous interconnected porosity, which benefits the transport of electrons, ions, and mass. The chemical compositions of porous materials are wellcontrolled and diversified and include metals, ceramics. and carbon-based materials. As a result, the development of porous materials is quickly becoming important. An increasing number of researchers are working from different perspectives to conduct fundamental research on various applications. This Special Issue focuses on recent advances in various porous materials. Research areas include but are not limited to novel synthetic strategies, advanced characterization skills, theoretical calculation methods, and various applications. We encourage you to submit a manuscript to this Special Issue. Original research papers and review articles are welcome. We look forward to receiving your contributions.

Guest Editors

Dr. Weiging Zhang

Prof. Dr. Zhifeng Wang

Dr. Yichao Wang

Deadline for manuscript submissions

closed (20 September 2025)



an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/194366

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/ materials





an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 6.4 Indexed in PubMed





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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

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

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)