materials

IMPACT FACTOR 3.1 | Indexed in: PubMed | CITESCORE 5.8

an Open Access Journal by MDPI

Advanced Nanoporous and Mesoporous Materials

Guest Editors:

Dr. Jakub Mokrzycki
Faculty of Energy and Fuels, AGH University of Krakow, Mickiewicza 30 Av., 30-059 Krakow, Poland

Dr. Monika Fedyna
Faculty of Chemistry, Jagiellonian University, Krakow, Gronostajowa 2, 30-387 Krakow, Poland

Prof. Dr. Wen-Tien Tsai
Graduate Institute of Bioresources, National Pingtung University of Science and Technology, Neipu Township, Pingtung 912, Taiwan

Deadline for manuscript submissions:
20 February 2025

Message from the Guest Editors

Nanoporous and mesoporous materials involve i.a. MOFs, COFs, zeolites, ordered mesoporous silicates, carbonaceous materials (activated carbons, biochars), which can find numerous applications owing to their unique properties – specified pore size distribution, high specific surface areas, and presence of functional groups. Their most important applications were found to be adsorption from both aqueous and gaseous media, heterogenous catalysis, gas separation, drug delivery, and soil amendment. Opportunity to use waste materials for their production and, so called “green synthesis” (more environmental friendly chemicals), allows to obtain a value added products with emerging applications in industry.

This special issue is aimed to gain a deeper knowledge on the latest findings of such materials and showing their potential applications and future perspectives. A broad range of nanoporous and mesoporous materials, showing their modifications, and utilization pathways are in the scope of the present Special Issue.

materials

IMPACT FACTOR 3.1 | Indexed in: PubMed | CITESCORE 5.8

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 - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*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