Special Issue

Metal–Organic Frameworks-Based Materials and Composites

Message from the Guest Editors

Metal–organic frameworks (MOFs) materials are a new type of material which have been widely used in gas storage, separation, catalysis, sensing, drug delivery, et al. because of their high porosity and surface area. The basic structural unit of MOFs consists of metal ions or clusters and organic ligands, which interact with each other through coordination bonds to form crystal structures, thus forming pores and voids. The superior performance of MOFs is mainly due to the regulability of their pore and surface characteristics. The future development direction of MOFs is very broad, including the field of environmental protection, photocatalysis, optoelectronics, and energy storage. Although MOFs faces some challenges and problems in the application process, their development prospect is still very broad, and they have great potential and application value. Therefore, this Special Issue focuses on recent advances in MOFs-based materials in applications such as biosensing, adsorption, catalysis, drug loading, supercapacitors, et al. We invite submissions of research that helps to advance the field of MOFs and their application in multiple fields.

Guest Editors

Dr. Yaoguang Wang
School of Chemistry and Chemical Engineering, Qilu University of Technology (Shandong Academy of Sciences), Jinan 250353, China

Dr. Guanhui Zhao
College of Chemistry and Chemical Engineering, Qilu Normal University, Jinan 250200, China

Deadline for manuscript submissions

closed (31 May 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/184818

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

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

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
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

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)