materials

IMPACT FACTOR 3.4

Indexed in: PubMed

CITESCORE 5.2

an Open Access Journal by MDPI

Zeolites and Related Materials for Biocatalysis, Heterogeneous Catalysis and Sustainable Applications

Guest Editors:

Prof. Dr. Debora Fino
Dipartimento di Scienza Applicata e Tecnologia, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129 Torino, Italy

Dr. Marco Piumetti
Department of Applied Science and Technology, Polytechnic University of Turin, Turin, Italy

Deadline for manuscript submissions:
closed (20 December 2023)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to provide a range of selected contributions on both natural and synthetic zeolites, mesoporous materials, and hierarchical systems for biocatalysis (supported enzymes), heterogeneous catalysis, and sustainable applications.

Porous materials are particularly interesting for the immobilization of enzymes and cells. Then, it is possible to design promising biocatalytic systems. Similarly, micro- and mesoporous materials can be used to prepare heterogeneous catalysts with highly dispersed active sites, such as the Single-Site Heterogeneous-Catalysts proposed by Sir John Meurig Thomas, that are the inorganic analogues of enzymes.

On the other hand, zeolites and related materials are effective for a large number of environmental and sustainable processes, including wastewater treatment, capture and storage of gases, development of sustainable agriculture, etc. Therefore, we strongly encourage researchers and scientists, from academia and industry, to submit their scientific work for this Special Issue. Full papers, communications, and reviews are all welcome.

materials

IMPACT FACTOR 3.4 | Indexed in: PubMed | CITESCORE 5.2

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 & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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