

Special Issue

Low-Carbon Construction and Building Materials

Message from the Guest Editor

Dear colleagues, This Special Issue aims to concentrate on the latest advancements, progress, and emerging trends pertaining to the physical and chemical mechanisms, as well as the fresh and hardened properties, long-term performance, and durability of sustainable cementitious materials with low carbon emissions, specifically in the context of civil engineering. We invite submissions of both original research and review articles. Topics of particular interest encompass, but are not confined to:

- Innovations in Green Concrete;
- Sustainable Timber and Wood-Based Materials;
- Advancements in Insulating Materials;
- Recycling and Upcycling in Building Materials;
- Smart and Responsive Materials for Building;
- Biocompatible and Biodegradable Building Materials;
- Low-Carbon Footprint Materials;
- Innovative Steel and Metal Alloys;
- Nano and Micro Technologies in Construction Materials;
- Fire-Resistant and Flame-Retardant Materials;
- Natural-Fiber-Reinforced Composites;
- Low-Impact Exterior Finishes;
- Urban Mining and Material Recovery;
- 3D Printing in Construction;
- Durability and Longevity of Building Materials.

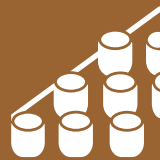
Guest Editor

Dr. Junfei Zhang

School of Civil and Transportation Engineering, Hebei University of Technology, Tianjin 300401, China

Deadline for manuscript submissions

20 April 2025



Materials

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 5.8
Indexed in PubMed



mdpi.com/si/196917

Materials

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

[mdpi.com/journal/
materials](https://mdpi.com/journal/materials)





Materials

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 5.8
Indexed in PubMed



[mdpi.com/journal/
materials](https://mdpi.com/journal/materials)



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 - Q1 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q2 (Condensed Matter Physics)