

Special Issue

Innovations in Sustainable Construction and Road Engineering Materials

Message from the Guest Editors

This Special Issue will showcase cutting-edge research on advanced construction and road engineering materials, with a particular focus on sustainability, intelligence, and environmental friendliness. The Special Issue welcomes a broad spectrum of topics, including high-performance composites, green building materials, smart and adaptive materials, carbon emission reduction strategies, and the utilization of solid waste and recycled resources in construction applications. Topics of interest include, but are not limited to, the following:

- Low-carbon cementitious materials;
- Recycled and waste-derived materials;
- Self-healing and adaptive construction materials;
- Smart materials and functional composites;
- Carbon reduction strategies in infrastructure materials;
- Digital technologies, AI, and data-driven innovations for material design.

Both experimental and theoretical studies, as well as comprehensive review papers, are welcome. This Special Issue will address current challenges and opportunities involved in developing next-generation sustainable materials for the built environment.

Guest Editors

Prof. Dr. Yanping Sheng

School of Materials Science and Engineering, Chang'an University,
Xi'an 710064, China

Prof. Dr. Zhanping You

Civil, Environmental, and Geospatial Engineering, Michigan
Technological University, 1400 Townsend Drive, Houghton, MI 49931,
USA

Deadline for manuscript submissions

20 March 2026



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/252032

Materials
Editorial Office
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 3.2
CiteScore 6.4
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 - Q2 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q1 (Condensed Matter Physics)