



Prospects and Challenges in the Sustainable Development of Building Materials

Guest Editors:

Prof. Dr. Mazen Alshaaer

Prof. Dr. Montserrat Zamorano

Prof. Dr. Maria Martín-Morales

Deadline for manuscript submissions:

28 February 2025

Message from the Guest Editors

Various levels can lead to innovation in construction materials, including composition selection, production technology, and developing new materials. In addition to meeting performance criteria, construction materials can also shape the entire life cycle of civil infrastructure. The simulation of performance requires the modification of specifications and guidelines for material selection, design and rehabilitation concepts for both new and old infrastructure, and accurate prediction models. This Special Issue aims to explore challenges, recent advancements, and future prospects in the field of smart, functional, and sustainable construction materials.

Potential areas of interest include, but are not limited to, the following:

- Materials circular economy;
- Nanotechnology and advanced composite materials for industrial and construction applications;
- Self-healing materials and green construction;
- Novel sustainable cementitious materials;
- Life cycle assessment and environmental impact analysis of building materials;
- Durability enhancement techniques for construction materials;
- Advanced functional materials;
- Case studies in construction materials.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

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

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

mdpi.com/journal/sustainability
sustainability@mdpi.com
X@Sus_MDPI