

Special Issue

Trends and Prospects in Sustainable Green Building Materials

Message from the Guest Editors

The use of sustainable technologies in building materials plays a crucial role in addressing environmental and economic challenges. The impact of using such materials encompasses not only the operational characteristics of building materials but also offers solutions for energy efficiency, reducing carbon footprint, conserving resources, and managing waste disposal. For this Special Issue, topics of interest include (but are not limited to) the following:

- The development and applications of sustainable green building materials;
- Properties for the improvement of sustainable green building materials;
- The utilization of various wastes in the development of green building materials;
- The durability of sustainable green building materials;
- Production technologies of sustainable, eco-friendly building materials;
- The role of sustainable green building materials in architecture;
- Materials that have been reused, recovered, or recycled.
- Sustainable, eco-friendly building materials;
- Economic aspects of sustainable building materials, examining their cost-effectiveness, market availability, and scalability;
- Materials to sustain a circular economy and built environment.

Guest Editors

Dr. Olga Kizinievič

Laboratory of Composite Materials, Institute of Building Materials, Vilnius Gediminas Technical University, 08217 Vilnius, Lithuania

Prof. Dr. Alexander Karamanov

Institute of Physical Chemistry, Bulgarian Academy of Sciences, Acad. G. Bonchev Str., Bl. 11, 1113 Sofia, Bulgaria

Deadline for manuscript submissions

15 August 2026



Buildings

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 5.6



mdpi.com/si/232105

Buildings

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

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





Buildings

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 5.6



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



About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Editor-in-Chief

Prof. Dr. David Arditi

Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

Author Benefits

High Visibility:

indexed within SCIE (Web of Science), Scopus, Ei Compendex, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Construction and Building Technology) /
CiteScore - Q1 (Architecture)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).