Special Issue

Innovative Trends and Future Prospects of Sustainable Green Building Materials

Message from the Guest Editor

This Special Issue aims to provide a comprehensive perspective on the latest trends in minimizing the environmental impact of construction materials. We welcome original research—both theoretical and applied—as well as case studies and review articles addressing, but not limited to, the following topics:

- Innovative sustainable materials for green buildings such as PCMs;
- Enhancing the performance and resilience of eco-friendly construction materials;
- Industrial and construction waste for replacing natural raw materials;
- Long-term durability and life-cycle assessments of green building materials;
- Advanced manufacturing techniques for sustainable and low-impact materials;
- The integration of eco-friendly materials in modern architectural design;
- Reclaimed, repurposed, and recycled materials in sustainable construction;
- Emerging trends and future challenges in sustainable material innovation;
- Economic viability and market trends of sustainable construction materials;
- Materials promoting circular economy principles in the built environment.

Guest Editor

Prof. Dr. Pedro Muñoz-Velasco

Escuela Superior de Ingeniería y Tecnología, Universidad Internacional de La Rioja, Avda. de la Paz, 137, 26007 Logroño, Spain

Deadline for manuscript submissions

10 November 2025

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/233818

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

mdpi.com/journal/buildings

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

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 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).