

Special Issue

Innovations in Sustainable and Resilient Building Materials and Technologies

Message from the Guest Editors

This Special Issue aims to showcase the latest advancements, challenges, and opportunities in the development and application of sustainable building materials and technologies. We invite original research papers, review articles, and case studies that present novel and interdisciplinary approaches in sustainable and resilient building materials and technologies. Topics of interest for this Special Issue include, but are not limited to:

- Novel sustainable building materials, including bio-based materials, recycled materials, and low-carbon cement.
- Innovative technologies for energy efficiency, including passive design strategies, green roofs, and photovoltaics.
- Sustainable building design and construction practices, including prefabrication, modular construction, and life-cycle assessment.
- Building design and construction, including innovative approaches to architectural design, structural design, and construction methods.
- Building performance optimization, including energy-efficient building systems, indoor environmental quality, and occupant comfort.

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2023)



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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

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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).