Special Issue

Advances in Sustainable Green Building Practices and Structural Engineering

Message from the Guest Editors

This Special Issue, “Advances in Sustainable Green Building Practices and Structural Engineering,” intends to showcase emerging research and case studies that contribute to reducing the environmental footprint of the built environment. Particular emphasis is placed on novel materials, technologies, and strategies that promote circularity, resource efficiency, and long-term durability in construction systems.

Topics of interest include the use of recycled materials in concrete and asphalt to reduce dependency on virgin resources and foster a circular economy. Self-healing concrete technologies, which offer an extended service life and reduced maintenance needs, are also welcome. In addition, we encourage contributions that focus on advanced structural strengthening techniques that minimize material use while enhancing performance—such as external post-tensioning.

Key topics include, but are not limited to, the following:

- green building management
- structural engineering
- recycled materials
- self-healing concrete
- composite materials
- nanomaterials
- carbon-negative materials
- life cycle assessment
- smart monitoring systems

Guest Editors

Dr. Ahmed Ibrahim Hassanin Mohamed

Prof. Dr. Hani Salim

Dr. Pan Ni

Deadline for manuscript submissions

30 June 2026

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/244573

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

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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

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

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