Topical Collection

Buildings for the 21st Century

Message from the Collection Editors

This Special Issue aims to address the following topics:

- Environmental impacts of building materials
- Building energy and environments
- Life cycle assessment and green buildings
- Environmentally friendly construction practices
- Prefabricated/modular buildings
- Passive design
- Building-integrated photovoltaics
- Net-zero energy buildings (NZEBS)
- A new generation of stronger, lighter and more sustainable building materials
- Application of LCA/EPD in sustainable construction
- Intelligent Building Management System for reducing UHI
- Modification of building envelopes for reducing UHI
- Demand-side management and UHI
- Life-cycle sustainability assessment

Collection Editors

Prof. Dr. Wahidul K. Biswas

School of Civil and Mechanical Engineering, Curtin University, Bentley, Perth, WA 6102, Australia

Prof. Dr. Chithirai Pon Selvan

Science and Engineering, Curtin University Dubai, Dubai, United Arab Emirates

Buildings

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Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/181616

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

mdpi.com/journal/buildings

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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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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).