

# Special Issue

## New Trends in Innovative Building Materials and Structures

### Message from the Guest Editor

"New Trends in Innovative Building Materials and Structures" discusses recent advancements in materials and construction techniques that are reshaping the building industry. The issue highlights the development of sustainable materials like carbon fiber, metamaterials, cellular structures and self-healing concrete, which offer improved durability and environmental benefits. Additionally, it explores the integration of smart technologies in building design, such as sensors for real-time monitoring and adaptive systems for energy efficiency. The focus on modular construction and prefabrication methods is also emphasized as a means to enhance efficiency and reduce construction time. Overall, the issue underscores the importance of embracing innovative materials and technologies to meet the evolving demands of modern construction projects.

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### Guest Editor

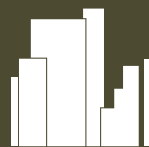
Prof. Dr. Yifeng Zhong

School of Civil Engineering, Chongqing University, Chongqing 400044, China

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### Deadline for manuscript submissions

closed (31 January 2026)



## Buildings

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

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### 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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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).