

# Special Issue

## Studies on Metal Materials and Their Applications in Building Structures

### Message from the Guest Editors

This Special Issue aims to promote a debate on the recent advances and future challenges for metal materials and buildings. We envisage that researchers will share their recent achievements in the design and assessment of steel, aluminum, or hybrid structures at the local and global seismic levels. Reviews of existing codes and proposals for the implementation of enhanced rules in the next generation of standards will be highly appreciated. The main topics covered within this thematic Issue will cover the following aspects:

- material testing; stress-strain curves; high cycle fatigue; low cycle fatigue;
- connections; novel alloys; codification for design, assessment, and retrofitting;
- civil buildings; industrial buildings; light-weight structures; non-structural components;
- cyclic behaviour of members, joints, and components;

Please consider that the above topics may not be exhaustive. As such, researchers should feel free to submit contributions on any additional topic that could be relevant to the field of steel structures in seismic areas.

---

### Guest Editors

Prof. Dr. Mario D'Aniello

Department of Structures for Engineering and Architecture, University of Naples Federico II, Forno Vecchio 36, 80134 Naples, Italy

Dr. Roberto Tartaglia

Department of Engineering (DING), University of Benevento "Sannio", Palazzo ex-INPS - Piazza Roma, 21, 82100 Benevento, Italy

---

### Deadline for manuscript submissions

31 December 2025



## Buildings

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 4.4



[mdpi.com/si/168359](https://mdpi.com/si/168359)

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

[mdpi.com/journal/  
buildings](https://mdpi.com/journal/buildings)





# Buildings

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 4.4



[mdpi.com/journal/  
buildings](https://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).