

# Special Issue

## Structural Vibration Control Research

### Message from the Guest Editor

This Special Issue focuses on structural vibration control research of building structures and critical infrastructure. The dynamic response and dynamic performance of building structures and critical infrastructure under complex loads need to be clarified. To improve the dynamic performance of building structures and critical infrastructure, new types of damping device and damping method also need to be proposed. The vibration analysis method and vibration control method of building structures and critical infrastructure are extremely important considering their complex loads and service conditions. The aim of this Special Issue is to collect and disseminate the latest research in these fields from world-leading researchers. Contributions related to the behavior of a new type of dampers for structures, damping mechanism of complex structures, the dynamic performance of complex structures, new types of anti-vibration method for structures, and the application of new damping devices for structures are most welcome.

### Guest Editor

Dr. Weibing Xu

Faculty of Architecture, Civil And Transportation Engineering, Beijing University of Technology, Pingleyuan No.100, Chaoyang District, Beijing, China

### Deadline for manuscript submissions

closed (30 June 2024)



## Buildings

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 4.4



[mdpi.com/si/122862](https://mdpi.com/si/122862)

*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).