

# Special Issue

## Damping Control of Building and Bridge Structures

### Message from the Guest Editors

Vibration of building and bridge caused by running train, earthquake and crosswind greatly affects the structural performance, which has been widely focused in actual engineering. Aiming at this problem, vibration control methods are widely employed in building and bridge engineering. This Special Issue focuses on building and bridge vibrations caused by running train, earthquake, crosswind and so on. The potential topics for this issue include, but are not limited to, the following:

- modeling of building and bridge vibrations
- analysis of building and bridge dynamic behaviors
- experimental studies of building and bridge vibrations caused by running train, earthquake and crosswind
- vibration control of building and bridge

For further reading, please follow the link to the Special Issue Website at:

[https://www.mdpi.com/journal/buildings/special\\_issues/911073NS79](https://www.mdpi.com/journal/buildings/special_issues/911073NS79)

---

### Guest Editors

Prof. Dr. Zhaowei Chen

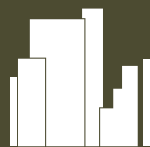
Prof. Dr. Lei Xu

Dr. Chao Zou

---

### Deadline for manuscript submissions

closed (13 January 2025)



## Buildings

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 4.4



[mdpi.com/si/208997](https://www.mdpi.com/si/208997)

*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://www.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 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).