

## Special Issue

# Research on the Construction Mechanical Behavior and Deformation Characteristics of Lining Structure

### Message from the Guest Editors

Lining is a permanent support structure constructed with reinforced concrete and other materials around the tunnel body to prevent deformation or collapse of the surrounding rock. With the huge demand for transportation, the rapid development of tunnel and corresponding underground engineering construction technology, and some tunnels that have already been put into operation have entered the life cycle of closure and repair. As a support structure, lining has been confirmed to play an important role in ensuring engineering construction, operation, and maintenance. This special issue encourages all professionals, researchers, managers, and planners engaged in the construction, operation, and maintenance of civil engineering, tunnels, and corresponding underground engineering to share their project.

---

### Guest Editors

Dr. Heng Zhang

School of Civil Engineering, Southwest Jiaotong University, Chengdu 610031, China

Dr. Huayun Li

School of Architecture and Civil Engineering, Xihua University, Chengdu 610039, China

---

### Deadline for manuscript submissions

closed (20 February 2024)



## Buildings

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 4.4



[mdpi.com/si/180513](https://mdpi.com/si/180513)

*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 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).