

## High-performance Construction Materials: Latest Advances and Prospects

Guest Editors:

**Dr. Shengwen Tang**

School of Water Resources and  
Hydropower Engineering, Wuhan  
University, Wuhan 430072, China

**Dr. Lei Wang**

College of Materials Science and  
Engineering, Xi'an University of  
Architecture and Technology,  
Xi'an 710055, China

Deadline for manuscript  
submissions:

**closed (1 June 2022)**

### Message from the Guest Editors

This Special Issue “High-Performance Construction Materials: Latest Advances and Prospects”, aims to reflect the current state-of-the-art and new developments in all topics relevant to high-performance construction materials. The topics to be considered in this Special Issue include, but are not limited to, the following:

- Fiber-reinforced cementitious composites
- Self-healing cementitious materials
- Innovative building materials
- Low energy consuming building materials
- Use of recycled materials, including recycled concrete
- Use of waste materials and industrial byproducts in concrete
- Use of nanoadditions in buildings
- Durability studies
- Mechanical properties
- New trends in the design of sustainable engineering materials
- New experimental techniques

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

[https://www.mdpi.com/journal/buildings/special\\_issues/High\\_performance\\_Materials](https://www.mdpi.com/journal/buildings/special_issues/High_performance_Materials)



[mdpi.com/si/94307](https://www.mdpi.com/si/94307)

# Special Issue

## 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

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Engineering, Civil*) / CiteScore - Q1 (*Architecture*)

## Contact Us

---

*Buildings* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/buildings](http://mdpi.com/journal/buildings)  
[buildings@mdpi.com](mailto:buildings@mdpi.com)  
[X@Buildings\\_MDPI](https://twitter.com/Buildings_MDPI)