



## Brittle Behaviour of High-Performance Concrete Structures

Guest Editors:

**Dr. Federico Accornero**

College of Engineering, Shantou  
University, Shantou 515063,  
China

**Prof. Dr. Alberto Carpinteri**

1. Department of Structural,  
Geotechnical and Building  
Engineering (DISEG), Politecnico  
di Torino, Torino, Italy  
2. College of Engineering,  
Shantou University, Shantou,  
China

Deadline for manuscript  
submissions:

**25 March 2025**

### Message from the Guest Editors

We are pleased to announce that the Special Issue entitled “Brittle Behaviour of High-Performance Concrete Structures” will be published in *Buildings*, a MDPI Open Access Journal indexed in Scopus and Web of Science with an Impact Factor of 3.1.

This Special Issue aims to publish papers on recent advances on high-performance concrete structures, with a particular focus on the complex phenomena characterising the failure mechanisms of fibre-reinforced, hybrid-reinforced, FRP-bar reinforced, and prestressed concrete structures.

We will be very pleased if you would consider submitting a research paper or a review article on any topic related to this theme. Should you have any questions, please do not hesitate to get in touch with us.





## 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, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/buildings  
buildings@mdpi.com  
X@Buildings\_MDPI