Special Issue

Recent Research Progress of UHPC in Structural Engineering

Message from the Guest Editors

UHPC is a cementitious composite material composed of an optimized gradation of granular constituents, exhibiting exceptional properties of strength and durability, which is an ideal candidate for developing new solutions in reaction to pressing concerns regarding structure deterioration, repair, and replacement. It is our pleasure to invite you to submit a manuscript for this SI. Technical articles and review papers are expected to reflect original research and technological advances on topics that include, but are not strictly limited to, the following fields:

- Long life-span of UHPC structures;
- Structural behavior of UHPC and prestressing UHPC structures;
- Emerging algorithms and analytical approaches in UHPC structures;
- Durability or long-term performance of UHPC structures;
- Application of UHPC in strengthening structures;
- Industrialized and intelligent construction of UHPC structures.

For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/buildings/special_issues/932U86JYM4

Guest Editors

Dr. Jianan Qi

Dr. Jun Yang

Dr. Kailai Deng

Dr. Yuqing Hu

Deadline for manuscript submissions

closed (30 November 2023)

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/147144

Buildings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
buildings@mdpi.com

mdpi.com/journal/buildings

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

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).