Special Issue

Research and Applications on Concrete Structures in Construction Engineering

Message from the Guest Editors

This Special Issue aspires to attract papers discussing both practical and theoretical issues involved not only in the design but also in the construction process and aiming at the good lifetime performance of concrete structures. Potential topics of interest are as follows:

- Research on high-performance new materials, concretes, and/or steel;
- The sustainability and resilience of concrete materials and structures;
- Experimental investigations on the reinforcement of concrete structures and structural elements;
- Design and structural analysis of concrete structures according to the provisions of new codes—the detailed design of structural elements under various loading cases;
- Pathology and damages—the repair and strengthening of concrete structures;
- Risk and vulnerability assessment of concrete structures;
- Engineering problems in the design and/or construction phase of specific structures. Case studies of important structures highlighting the problems faced and how those problems were solved are encouraged.

For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/buildings/special_issues/52GN79M1VP

Guest Editors

Dr. Marina Moretti

Department of Architectural Design, National Technical University of Athens, Athens 15780, Greece

Prof. Dr. Milton Demosthenous

1. Department of Civil Engineering, Frederick University, Nicosia 20537, Cyprus
2. Department of Architecture, Frederick University, Nicosia 20537, Cyprus

Deadline for manuscript submissions

31 May 2026

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/252223

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

MDPI

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).