

Special Issue

High or Ultra-High Performance Cement-Based Materials

Message from the Guest Editors

In recent years, modern concrete structures, such as super high, super long, and super high resistance, have put forward new requirements for concrete materials. The improvement of concrete quality and performance is an important support for structural system innovation and engineering safety and durability. This leads to the development of concrete materials towards high performance and ultra-high performance. This Special Issue will provide an overview of existing knowledge related to various aspects of the topic. Original research, theoretical and experimental, case studies, and comprehensive review papers are invited for possible publication in this Special Issue. Relevant topics for this Special Issue include, but are not limited to, the following subjects:

- Raw materials and mixture design;
- Preparation and mechanical properties;
- Volume stability and durability;
- Microstructure and fiber reinforcement;
- Behaviors of elements and structures;
- New structures;
- Application in existing structures;
- Guidelines and specifications.

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

https://www.mdpi.com/journal/buildings/special_issues/O2Z1W4L75

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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

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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).