

Special Issue

Research on Concrete and Cement-Based Materials

Message from the Guest Editors

The most universal and today most widely used construction materials are cement-based materials, in particular concrete. Ongoing research into the development of new generation concretes and the study of their properties is essential for their application in civil engineering. The implementation of the newest technologies is necessary for construction businesses to succeed in the industry and remain competitive in the global market. Durability, eco-efficiency and compliance with the investor's financial demands are the basic requirements for modern construction.

The aim of this Special Issue is to provide a platform to discover state-of-the-art knowledge, practical application, and cutting-edge developments in the area of structural behavior and properties of concrete and cement-based materials. We are pleased to invite you to present your research and development outcomes in the form of research articles, reviews or case studies in the following areas:

High-performance concretes;
Self-compacting concretes
Eco-friendly cement-based materials;
Self-healing concretes;
Polymer or geopolymers concretes;
Fiber-reinforced concrete or biocomposites;
Soil-cement materials;

Guest Editors

Dr. Daniel Wałach

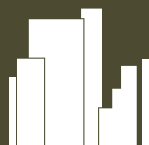
Faculty of Civil Engineering and Resource Management, AGH University of Krakow, 30-059 Krakow, Poland

Dr. Piotr Dybeł

Faculty of Civil Engineering and Resource Management, AGH University of Science and Technology, 30-059 Krakow, Poland

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

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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

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

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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).