

# Special Issue

## Development and Research of Cement-Based Materials

### Message from the Guest Editors

This Special Issue aims to report on the latest advancements in the scientific research and engineering application of cement-based materials, with a particular focus on whole-chain innovation from material design and performance characterization to engineering practice. Topics of interest for this Special Issue include, but are not limited to, novel cementitious material systems, the multi-scale mechanical behavior of cement-based composites, degradation mechanisms of durability under complex environments, the resource utilization of low-carbon solid wastes, the preparation and properties of functional cement-based materials, and the application of intelligent and digital technologies in the research and development of cement-based materials. For further reading, please follow the link to the Special Issue Website at:

[https://www.mdpi.com/journal/buildings/special\\_issues/195PNNTK1K](https://www.mdpi.com/journal/buildings/special_issues/195PNNTK1K)

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### Guest Editors

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### Deadline for manuscript submissions

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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.

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### Editor-in-Chief

Prof. Dr. David Arditi

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