

# Special Issue

## Innovative Sustainable Concrete: Materials, Design, and Performance

### Message from the Guest Editor

Concrete remains the most widely used construction material worldwide, yet its environmental impact and durability challenges demand innovative solutions. This Special Issue of *Buildings* invites cutting-edge research and case studies on sustainable concrete materials, design strategies, and performance enhancement. Topics of interest include low-carbon and recycled materials, novel mix designs, durability improvement, structural performance, digital and AI-driven optimization, and life cycle assessment. We welcome original research, reviews, and practical applications that advance sustainable engineering practice. Contributions will highlight transformative approaches that reduce environmental impact while ensuring safety, resilience, and long-term performance in the built environment.

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### Guest Editor

Dr. Olivia Mirza

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### Deadline for manuscript submissions

28 February 2026



## Buildings

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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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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).