# Special Issue

# The Greening of the Reinforced Concrete Industry

## Message from the Guest Editors

High-performance green and low-carbon concrete is vital for sustainable construction, reducing carbon footprints, improving durability, and enhancing energy efficiency. Recent advances include using industrial by-products, recycled aggregates, and carbon-capture technologies to develop eco-friendly concretes with superior strength and durability while minimizing environmental impacts. However, challenges remain in cost-effectiveness, large-scale production, and integration with industry practices. This Special Issue seeks to bring together leading researchers to share advances in material design, structural performance, life-cycle assessment, and real-world applications, fostering collaboration and accelerating adoption of sustainable concrete for a greener, more resilient built environment.

## Guest Editors


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## Deadline for manuscript submissions

closed (31 March 2026)


**Buildings**

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Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/254270

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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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