Special Issue

Future Civil Engineering: Low-Carbon, High Performance and Strong Durability

Message from the Guest Editors

This Special Issue seeks papers on the related fields of research, the application of green and low-carbon building materials, high-performance composite structures and materials, structural safety and durability, new technologies for improving energy efficiency, and intelligent science and technology in engineering projects. We welcome papers on the topics listed below and others, including but not limited to the following:

- New green building materials
- Engineering protection and reinforcement materials
- High-performance composite material and structures
- The performance evaluation and life prediction of engineering structures
- Strong durable steel and lightweight construction
- The durability of engineering structures under extreme environments
- Recycling and solid waste utilization
- The technology and application of efficient carbon sequestration and reduction
- Intelligent science in civil engineering
- Future clean energy and engineering
- Low-energy design and energy-saving technology for infrastructure
- Low-carbon and intelligent concrete

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Deadline for manuscript submissions

closed (15 May 2025)

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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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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).