

Special Issue

New Concrete Materials: Performance Analysis and Research—2nd Edition

Message from the Guest Editor

The rational use of new concrete materials can greatly improve the quality of civil engineering projects. New concrete materials play a very important role in reducing costs, increasing service life, and promoting environmental protection. Through microscopic analysis (e.g., scanning electron microscopy, X-ray diffraction, and so on), it is possible to gain a deeper understanding of the mechanical properties and failure mechanisms of new concrete materials. This Special Issue aims to encourage scientists and researchers to publish their experimental and theoretical findings or solutions on new concrete materials. Research areas may include (but are not limited to) the following:

- Recycled concrete;
- Modified concrete;
- Ultra-high-performance concrete;
- Mechanical properties;
- Durability;
- Low-carbon materials;

For more information, please click on the special issue link:

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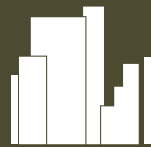
Guest Editor

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Deadline for manuscript submissions

closed (30 June 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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