



## Study on Concrete Structures

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Deadline for manuscript  
submissions:

**closed (31 October 2024)**

### Message from the Guest Editors

Dear Colleagues,

With the development of large-scale concrete infrastructures, such as buildings, bridges, tunnels, and tracks, the service performance, repairing, and strengthening strategies are becoming important issues in terms of advanced materials and resilience structures. This Special Issue plans to give an overview of the most recent advances in the field of concrete materials and structures through experimental tests, numerical analyses, and applications in real case studies. We would like to invite all experts in the field of Concrete Materials and Structures to send manuscripts containing scientific findings within the broad field of concrete structures to contribute to this Special Issue.

Topics include, but are not limited to, research results on

- Green and advanced construction materials;
- Novel repairing materials and technology;
- Concrete material behavior;
- Concrete mechanical behavior;
- Advanced experimental techniques for concrete;
- Advanced modeling techniques for concrete;
- Advanced concrete structural system;
- Concrete structural monitoring;
- Concrete structure durability and improvement.





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## Editor-in-Chief

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## 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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