

Current Progress of Concrete and Composite Structures

Guest Editors:

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Message from the Guest Editors

Dear Colleagues,

Concrete and composite structures are two kinds of traditional structures that have been widely used in engineering practice. Today, the properties of materials, members and structures can be studied more comprehensively, deeply and systematically with the progress of modern research means. It is our pleasure to announce this Special Issue of Buildings, which will focus on the current progress of concrete and composite structures. The objective of this Special Issue is to solicit articles related to the material development, structural performance and applications of concrete or composite structures, including (but not limited to) the following topics:

- Mechanisms, durability and microstructures of steel and concrete materials;
- Architecture design;
- Behaviours of novel concrete or composite members;
- Concrete or composite structures under extreme loading conditions, such as seismic, fire, impact and blast;
- Damage evaluation and rehabilitation of concrete or composite members/structures;
- Field monitoring and case studies.



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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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