buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.1

CITESCORE 3.4

High-Performance Steel–Concrete Composite Structures

Guest Editors:

Prof. Dr. Wei Wang
School of Civil Engineering, Tongji University, Shanghai 200092, China

Prof. Dr. Jia-Bao Yan
School of Civil Engineering, Tianjin University, Tianjin 300350, China

Deadline for manuscript submissions:
closed (30 April 2022)

Message from the Guest Editors

Dear Colleagues,

The development of high-performance materials, e.g., high-strength steel and high-performance concrete, provides more alternatives to develop high-performance steel–concrete composite structures. This issue aims to incorporate the state-of-the-art developments of steel–concrete composite structures using these new high-performance materials, e.g., high-strength steel, weathering steel, high strength concrete, fiber-reinforced concrete, green concrete, lightweight concrete, recycled concrete, etc. Moreover, the applications of steel–concrete composite structures in mega projects are especially preferred, e.g., high-speed train bridges, long-span bridges, immersed tunnels, offshore structures, and tunnels.

Including the developments and experimental studies on these high-performance steel–concrete composite structures, new theory and numerical methods on analyzing or simulating static, dynamic, or seismic responses of these high-performance steel–concrete composite structures are also included in this issue.

buildings

IMPACT FACTOR 3.1

CITESCORE 3.4

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. David Arditi
Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.
Journal Rank: JCR - Q2 (*Engineering, Civil*) / CiteScore - Q1 (Architecture)

Contact Us

Buildings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/buildings
buildings@mdpi.com
𝕏@Buildings_MDPI