



Advances in Composite Construction in Civil Engineering

Guest Editor:

Dr. Hang Lu

Louisiana Transportation
Research Center, Louisiana State
University, Baton Rouge, LA
70803, USA

Deadline for manuscript
submissions:

closed (20 August 2024)

Message from the Guest Editor

Composite construction involves the interaction of two or more separate elements acting together and contributing together rather than separately. Relevant materials include those reinforced with fiber, polymers, or chemical additives. Composite structures include sandwiched layers, framed structures, and attachments, etc. Innovations in structures and materials are commonly related and coordinated to achieve the target performance level.

With the introduction of a novel composite materials or structure, the following questions need to be addressed: what is the performance improvement of the new composite construction? What is the mechanism of composite construction? What is the environmental or economic impact of composite construction?

Scholars working in the area of composite construction are welcome to submit papers to answer these questions. This Special Issue offers a platform to showcase your findings, and will encourage the advancement of composite construction research among scholars worldwide.



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 SCIE (Web of Science), Scopus, Ei Compendex, Inspec, and other databases.

Journal Rank: JCR - Q2 (Construction and Building Technology) / 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](https://twitter.com/Buildings_MDPI)