buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.1

CITESCORE 4.4

Finite Element Analysis and Design of Hybrid Structures

Guest Editor:

Prof. Dr. Marc Oudjene
Department of Civil and Water Engineering, Laval University, Quebec, Canada

Deadline for manuscript submissions:
closed (31 August 2022)

Message from the Guest Editor

Dear Colleagues,

Hybrid construction systems are gaining more and more interest in research laboratories, as well as in the construction sector. Hybrid systems can combine two or several construction materials, where the strength of one material is used to compensate for the weakness of another. Among the structural performance, the hybridization of construction materials can meet the objectives of sustainability in construction, as well as environmental and societal considerations through the well-known eco-design concept, which is increasingly popular. Hybrid construction combines the optimization of the costs and environmental impact of buildings during their construction process, as well as during their life cycle.

In recent years, despite the rapidly increasing interest in the hybridization of materials and the considerable research activity that has taken place in this area, several basic aspects related to failure mechanisms [...]

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues

/Analysis_Design_Hybrid_Structures

Prof. Dr. Marc Oudjene
Guest Editor

buildings

IMPACT FACTOR 3.1

CITESCORE 4.4

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 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