Special Issue

Advances in Masonry Structures

Message from the Guest Editors

Masonry is one of the oldest construction techniques and, in addition to being important from the perspective of historical heritage, many modern structures are still built using masonry. Advances in material science have resulted in higher strength, productivity, and sustainability in masonry construction. New developments and applications in advenced construction technologies would increase the popularity of masonry structures. Additionally, masonry has a significant share within the overall building inventory, and further research is needed that focuses on the rehabilitation and renovation of existing masonry structures from the perspective of sustainability and resiliency.

In this Special Issue, topics of interest include, but are not limited to:

- the full-scale or non-destructive testing of masonry
- advanced modeling or numerical techniques for the assessment of built masonry
- probabilistic analyses regarding advanced structural materials and masonry
- advances in assessment procedures for masonry structures
- strengthening and retrofitting masonry structures
- future perspectives in masonry construction technologies

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Deadline for manuscript submissions

closed (30 September 2023)

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/165492

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About the Journal

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.

Editor-in-Chief

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