



Research on Seismic Performance of Timber/Bamboo Buildings

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Message from the Guest Editors

Contemporary bamboo/wood is a high-strength material made by gluing units such as strands, strips, or sheets together after undergoing high-temperature gluing. Clearly, this is a new type of environmentally friendly structural material with great advantages. In response to global calls to reduce carbon emissions and to accommodate for the trend of the further development of contemporary bamboo/wood structures in the direction of multi-story and high-rise buildings, a growing number of researchers have conducted studies on modern bamboo/wood.

This Special Issue of *Buildings*, titled “Research on Seismic Performance of Timber/Bamboo Buildings”, focuses on the material and structural properties of contemporary bamboo/wood buildings, in particular the seismic properties, long-term performance, and structural reliability of contemporary bamboo/wood structures.

Deadline for manuscript
submissions:

31 August 2024



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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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