

Special Issue

Timber Building Design and Construction for a Sustainable Future

Message from the Guest Editors

Wood is one of the most abundant biomaterials worldwide, having traditionally been used for construction. Recent studies on advanced engineered wood products highlight its vast but largely untapped potential to tackle global sustainability challenges. Alongside this, significant technological advancements are pushing the boundaries of wooden construction. Moreover, it has become more economically viable to use wood for buildings beyond low-rise structures. Consequently, there has been a notable shift in public perception, increasingly accepting wood as a material for high-rise buildings. This Special Issue focuses on timber building design and construction for a sustainable future.

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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.

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