



Properties of Wood and Bamboo Used in Construction

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Deadline for manuscript
submissions:

closed (10 May 2024)

Message from the Guest Editors

Along with the issues of sustainability, wooden constructions and bamboo products have arisen as eco-friendly solutions for building sectors. By means of processing or engineering techniques, the mechanical properties and applicational versatilities of wood and bamboo can be considerably enhanced. Associated evaluating methods have led to a significant increase in the reliability of engineered components and structures. Based on the current progress and propagation, wooden constructions and bamboo products have achieved a promising milestone. The markets and users are looking forward to the further development of wooden construction and bamboo products. Regarding the large-scale structures and highly engineered elements, advanced technology and science need further promotion and improvement.

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

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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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