

# Special Issue

## Characteristics and Performance of Bio-Based Building Materials

### Message from the Guest Editor

The reduction in CO<sub>2</sub> emissions in buildings is one of the most major current preoccupations. In fact, this is due to the important energy demand for the production of materials as well as the exploitation of buildings. In this context, the use of bio-based materials is one of the best solutions to these challenges. Nevertheless, the lack of knowledge on these materials makes them used even more rarely today. Several studies are interested in the development of these new materials to meet construction environmental challenges. However, these studies are still limited, especially in terms of their durability and environmental analyses. This Special Issue, "Characteristics and Performance of Bio-Based Building Materials", in *Buildings* aims to present and disseminate the most recent investigations related to the experimental characterization, modeling, microstructural analysis, life cycle assessment, and durability of bio-based building materials. For further reading, please follow the link to the Special Issue Website at:

[https://www.mdpi.com/journal/buildings/special\\_issues/M705CNVWY6](https://www.mdpi.com/journal/buildings/special_issues/M705CNVWY6)

### Guest Editor

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### Deadline for manuscript submissions

closed (30 June 2023)



## Buildings

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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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### Editor-in-Chief

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indexed within SCIE (Web of Science), Scopus, Ei Compendex, Inspec, and other databases.

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JCR - Q2 (Construction and Building Technology) /  
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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).