

Special Issue

Biomass-Based Materials for Building Applications

Message from the Guest Editors

Nowadays, use of renewable materials capable of substituting the raw matter responsible for greenhouse gases can significantly reduce global warming caused by the emission of harmful substances into the atmosphere. In this context, the use of biomasses for developing high performance and low-cost building materials represents an emerging research topic in the construction field and civil engineering. Biomasses from agricultural crops and vegetable processing waste to biogenic materials resulting from industrial or municipal waste, may find a new life as components of innovative concrete, insulating plaster, mortar, or wallboard panels for indoor applications. According to the current European regulations, the use of sustainable materials can be considered one of the best passive strategies to improve the whole sustainability of new and redeveloped building envelopes. Studies on different uses of biomass in building materials are welcome for this Special Issue. Papers can be reviews, case studies, original researches, or meta-analyses, relevant in terms of physical aspects; structural, hygrothermal, and acoustic properties; or economic and environmental analyses.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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