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Characterization of Biopolymer–Concrete Composites in Construction

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Message from the Guest Editors

The building sector is in urgent need of new technologies and low carbon materials in order to reduce its energy consumption and environmental impacts, such as natural resource depletion and climate change. The use of biopolymer–concrete composites can contribute in reducing these impacts, as these use renewable green resources and have interesting hygrothermal properties. In some cases, treatments and additives are used to prepare these composites and overcome the problems related to the hydrophilic nature of fiber, the poor fiber–matrix adhesion or the low mechanical properties.

We invite you to submit new research on the development and characterization of biopolymer–concrete composites and their applications in the building sector, with particular focus on the manufacturing process, fiber treatment, physical, chemical, and morphological properties, as well as materials’ durability. Numerical studies are also encouraged.



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Message from the Editor-in-Chief

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