Special Issue

Characterization of Biopolymer–Concrete Composites in Construction

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.

Guest Editors

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Deadline for manuscript submissions

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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