Special Issue

Bio-Based Materials from Wood and Non-wood Fibers: Development, Properties and Design

Message from the Guest Editors

The use of wood and non-wood fibers from forestry and agricultural industries for the production of new end products has grown significantly in recent years. The most attractive factor of bio-based products is the possibility to exploit biological wastes and byproducts that are valorized to achieve the principles of circular economy. Composites from natural fibres have many advantages and are designed to be used in building, construction, furniture production, packaging, interior accessories. However, they should comply with a series of standards to achieve specified values of various properties. Additionally, wood and non-wood fibers have received much attention for composite material applications. The Special Issue aims to cover all the aspects related to recent innovations in composites from natural fibers such as wood, agro-fibers, plant biomass, grass and mycelium fibers. Development, physico-mechanical, chemical, biological properties and design of these materials are appreciated. Besides, contributions analyzing the effect of inclusion other natural biopolymers in composite materials are welcomed.

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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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