

Special Issue

Sustainable Lignocellulosic Materials

Message from the Guest Editors

Wood and wood-based products are considered the most significant renewable source of lignocellulosic material abundantly available in Nature. However, natural fibers are also defibrated from wood particles and can be used for green insulation and plastic composite material production. The particles obtained from softwoods and hardwoods are another important source of lignocellulosic materials used for sustainable particle board manufacturing. Different thermosetting, thermoplastic, and cementitious polymers are used for the production of wood-based products and the development and manufacturing of composites. Recently, multiple hardwoods, barks, and leaves have been used for metallic nanoparticle synthesis. Furthermore, a variety of waste woods and industrial byproducts are excellent sources of sustainable lignocellulosic raw materials. In some cases, nanoparticles are also used to improve the thermomechanical and physical properties of the developed products. However, there is still a long way to go for sustainable lignocellulosic products to replace traditional nonbiodegradable products, due to the lack of efficient technology and production protocols.

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Message from the Editor-in-Chief

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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