

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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