



Sustainable Lignocellulosic Materials

Guest Editors:

Dr. Tibor László Alpár

Dr. Laszlo Bejo

Dr. K. M. Faridul Hasan

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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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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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