Special Issue

Application of Natural Polymers in Bio-Based Products

Message from the Guest Editor

With the worsening global energy crisis, and the increasing concerns on the carcinogenic formaldehyde-based components as well as the greater consumer interest in healthy and sustainable products, the building-related industries including wood and paint sectors, have been forced to find alternatives from renewable resources. However, developing good properties from biobased polymers is challenging and requires more research. This Special Issue welcomes high-quality research and review articles that address various topics related, but not limited, to the latest approaches on the application of biobased polymers in composites; the uses of biopolymer-based adhesives in panel manufacturing, i.e., wood-based panels; the application of additives from renewable resources to improve the material properties of natural products; the application of biopolymers to entirely or partially replace petroleum-based materials; the application of natural polymers for protection of lignocellulosic materials; and the use of bio-nanomaterials for production of smart wood composites.

Guest Editor

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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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