Special Issue

Advances in Fiber-Reinforced Composites: Preparation, Structure and Properties

Message from the Guest Editors

The global demand for sustainability in product design and development for various engineering applications has prompted materials researchers to explore renewable resources as raw materials. As a result, natural fiber-reinforced polymer composites exist to expand their applications to a wider range without sacrificing the basic requirements of the material. We have explored the properties of several natural plants to extract their fibers as raw materials for natural fiber-reinforced composites. However, further research is still needed to improve the properties of natural reinforced materials to a higher level. Therefore, different treatment methods such as physical, chemical and biological treatment techniques are used to modify the surface of the fibers. Similarly, the combination of natural fibers and biopolymers from renewable resources can provide different insights in terms of manufacturing and testing for better performance in considering eco-friendliness, waste management, recycling and life cycle assessment. Considering all the above aspects, this special issue focuses on the publication of partially and fully biodegradable composites.

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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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