Special Issue

Natural Fiber (Cellulose, Chitin)-Based Bioplastic Composites and Their Emerging Applications

Message from the Guest Editor

The use of biodegradable polymer is expected to reduce the growing amount of accumulated plastics waste. High-performance bioplastics are also suggested to replace petroleum-based plastics that are not biodegradable but are made from environmental hormones such as bisphenol A. However, bioplastics still have limitations compared to petroleum-based plastics. In particular, bioplastics have poor mechanical properties compared with petroleum-based plastics, which makes their commercialization difficult. Nanocellulose or nanochitin are suitable not only for biodegradable polymers, but also as dispersed phases to reinforce biobased polymeric materials for engineering plastics. In this Special Issue, we will discuss nanocellulose and nanochitin materials, which are attracting attention as eco-friendly dispersion phases for natural fiber-based polymer nanocomposites, and nanocomposites, coating films, polymer blends, and filters, membranes, battery matrices, and engineering plastics using them.

Guest Editor

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Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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