

Special Issue on
Advances on Modification of Biobased Composite Materials

CALL FOR PAPERS

Driven by efforts to develop more environmentally friendly materials, biobased composite materials also called biocomposites have attracted extensive interest. The biocomposite materials combine the unique properties of the biofibers as reinforcing agents and petroleum-based or biobased polymers as matrices. Such composite materials can offer light weight, high durability, high stiffness, tailored properties, and processability for a wide range of applications in packaging, automobile, electronic, construction, and furniture industries. However, the hydrophilic biofibers and hydrophobic polymer matrix may result in a poor interfacial bonding between the two phases. Consequently, research efforts are currently ongoing to modify the biofibers and/or polymer so as to improve the performance of resulting composite materials.

The aim of this special issue is to provide a platform for scientist and engineers to exhibit the more recent advances on modification of biobased composites regarding manufacture, characterization, and applications. We sincerely invited you to contribute high-quality original research papers as well as review articles within the topic of this special issue.

Potential topics include but are not limited to the following:

- ▶ Physical, thermal, and chemical modification of natural or synthesized fibers used for composite
- ▶ Sustainable and green chemistry based modification methods development
- ▶ Composite properties and melt processability affected by modification
- ▶ The interfacial interaction investigation as a result of modification
- ▶ Applications of modified biobased composite materials

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/ijps/ambc/>.

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First Round of Reviews

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