

Composites from Natural Fibers and Bioresins

Biocomposites: Biomedical and Environmental Applications

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ABSTRACT:

There is an increasing urgency worldwide to develop bio-based products that can ease the widespread dependence on fossil fuels. The use of natural fibers and natural bio-based resin systems for the production of biocomposites has been pursued by researchers as they address environmental concerns. This chapter focuses on biocomposites produced from natural fibers and bio-resins, specifically using banana fibers and banana sap (BS)-based bio-resin. More importantly, natural fibers and bio-resins from agricultural waste were utilized to produce the biocomposites. The biodegradability tests of the biocomposite via respirometric methods confirmed that banana fiber with the BS bioresin degraded over a period of time.