

Processing of Polymer-based Nanocomposites: Processing-structure-property-performance relationships: 139-165

Processing of sustainable polymer nanocomposites

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**ABSTRACT:**

This chapter provides a brief overview on the processing methods and structure-property relationships of polylactide, polyhydroxybutyrate, and starch nanocomposites as well as the challenges faced in their development, in order to further the state-of-the-art of green nanochemistry. The concept of biodegradable polymer nanocomposites and the role of nanofillers are discussed in detail. Further, the performances and potential industrial applications of these sustainable polymer nanocomposites are also discussed in brief.