



Biodegradable Polymer Nanocomposites

Guest Editor:

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Message from the Guest Editor

In recent years, the development of environmentally-friendly polymeric materials, which are mainly derived from biodegradable polymers from both fossil-fuel and natural resources with excellent physical properties, has received a lot of research attention. These biodegradable polymers include poly(lactic acid), poly(3-hydroxybutyrate), poly(butylene succinate), poly(butylene adipate), poly(butylene succinate-co-adipate), poly(butylene adipate-co-terephthalate), and poly(butylene succinate-co-terephthalate). The use of nano-reinforcements in biodegradable polymers has demonstrated significant promise for the design of new sustainable polymeric materials with desired properties. These nano-reinforcements include two-dimensional layered silicates or hydroxide, one-dimensional carbon nanotubes or nanocellulose crystals, zero-dimensional metal or metal oxides nanoparticles, etc.

The aim of this Special Issue is to highlight the progress and fundamental aspects for the synthesis, processing procedures, characterization, physical properties, applications, and further developments of biodegradable polymer nanocomposites.





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Message from the Editor-in-Chief

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