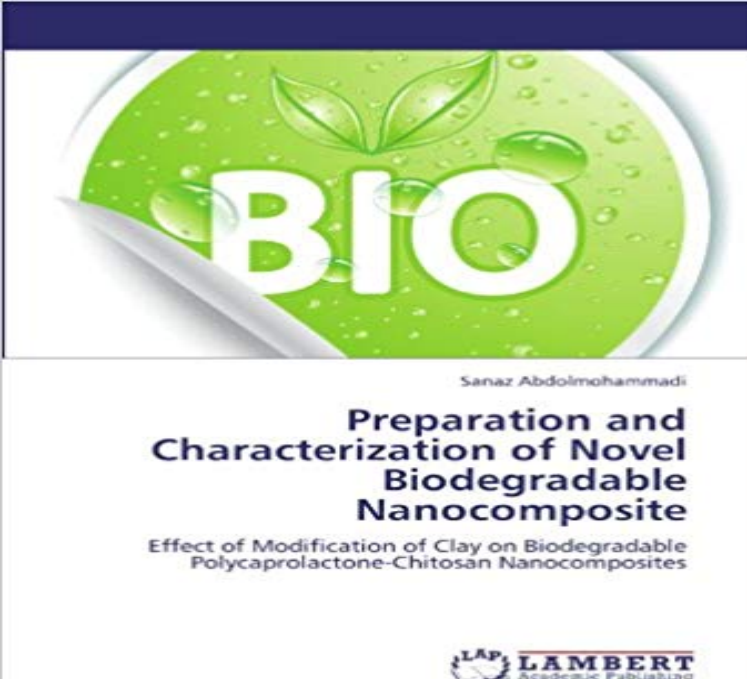


Preparation and Characterization of Novel Biodegradable Nanocomposite: Effect of Modification of Clay on Biodegradable Polycaprolactone-Chitosan Nanocomposites



During the last decades, dealing with the increasing amounts of industrial non-biodegradable disposals polluting the environment has emerged as one of the major concerns of researchers, as well as ordinary public associations. Since, biodegradable polymers produced from nontoxic materials, become increasingly noticed as replacements of conventional non biodegradable petroleum-based plastics. This book, therefore, provides a new class of environmentally friendly biodegradable nanocomposites of polycaprolactone-chitosan-layered silicate with enhancement in mechanical and thermal properties.

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(PCL) is a biodegradable aliphatic polyester regularly prepared through ring Results of Nanoparticle Characterization. **Preparation and Characterization of Novel Biodegradable** Preparation and Characterization of Novel Biodegradable Nanocomposite, friendly biodegradable nanocomposites of polycaprolactone-chitosan-layered silicate Effect of Modification of Clay on Biodegradable Polycaprolactone-Chitosan **Preparation and Characterization of Novel Biodegradable** The nanocomposites of PCL/chitosan/CaCO₃ were prepared using a melt blending nanocomposites calcium carbonate nanoparticles polycaprolactone chitosan Extensive studies on the reinforcing effect of nano- and micro-sized CaCO₃ Poly (ε-caprolactone) (PCL) is a biodegradable aliphatic polyester regularly **Effect of Modification of Clay on Biodegradable Polycaprolactone** Gelatin-clay nanocomposites of improved properties. 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