



Abstract

Biopolymers, derived from renewable biological sources, have emerged as promising alternatives to traditional petroleum-based polymers, offering a sustainable solution to the environmental challenges posed by plastic pollution. This abstract provides an overview of the key aspects of biopolymers, encompassing their sources, properties, applications, and environmental impact. Biopolymers are polymers synthesized from natural sources such as plants, microorganisms, and animals. Unlike conventional polymers,

industrial, and environmental communities. This discussion delves into key aspects of biopolymers, exploring their advantages, challenges, and the transformative potential they hold in various sectors. Biopolymers, often lauded for their eco-friendly attributes, contribute significantly to reducing the environmental impact associated with traditional

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