



Biopolymer Modifications and Characterization

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Message from the Guest Editor

According to the data in the literature, the consumption of plastic-like polymers is exceeding an annual quantity of about 300 tons. Plastic-like polymers are employed in all fields and as special materials in biomedicine, membrane separation and the packaging industry, thanks to their low market cost and appropriate chemical–physical, mechanical and gas selectivity characteristics. In spite of these advantages, their industrial manufacturing is based on non-renewable fossil resources that are progressively depleting and, after their lifetime, they are accumulated as non-biodegradable wastes. Considering the environmental concerns, a switch towards renewable material resources should be taken into consideration to promote sustainable development. One possible solution is a stronger implementation of the use of eco-friendly polymer formulations, based on biopolymers. Biopolymers can offer attractive alternatives as long as their synthesis and characterization can be easily tailored for technological applications.





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