



Biopolymers from Renewable Sources and Their Applications

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Deadline for manuscript submissions:

closed (28 February 2022)

Message from the Guest Editors

The implementation of circular economy systems and the increasing focus on minimizing the disposal of non-biodegradable materials deliver significant benefits to the environment such as the preservation of fossil raw materials, reduction of landfill waste, and reduction of CO₂ emissions.

In this context, research for the development of materials from renewable sources like lipids, plant-based proteins (zein, soy, pea, gluten), animal-based proteins (gelatine, whey, casein), and polysaccharides (starch, chitosan, sodium alginate, pectin, gums) has grown significantly in recent years. Some of these environmental-friendly materials can be used to develop flexible films, rigid sheets, and foams. They can also be processed into edible systems, such as coatings.

This Special Issue will present the most recent research works and reviews dedicated to polymers from renewable sources and their potential applications in the short and long-term.





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