



## Sustainable and Renewable Polymers from Biomass

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### Message from the Guest Editor

Successfully transitioning to a circular bioeconomy with viable alternatives to synthetic polymers depends strongly on progress in the areas of sustainable and renewable polymer production and performance. Biopolymers, along with biofuels and biochemicals, are a pillar product class of the emerging biorefineries, with broad potential impact. They can be isolated and used without further modifications, as in the case of lignosulfonates and glucomannans; after conversion to their nanoform, as exemplified by nanocellulose, nanolignin, and nanochitin/chitosan; or after chemical modifications, as in case of starch and cellulose derivatives and lignin-based adhesives and polyurethanes. They can also be depolymerized and biologically or chemically converted to different polymers, such as polyhydroxyalkanoates and polyethylene furanoates, respectively. This Special Issue focuses on the production, characterization, application, recyclability and biodegradability of biopolymers. Studies of interest also include the characterization of biopolymers in situ and throughout processing.





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