



Biodegradable Polymers: Synthesis, Characterization and Applications

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Message from the Guest Editors

Biomaterials have attracted intense interest for solving problems such as increase in CO₂ gas emission, exhaustion of petroleum resources, and expansion of microplastics. As bio-based materials, biomass polymers, which are made from plant-based raw materials such as corn and sugarcane, are well known. Although CO₂ gas is emitted by burning biomass polymers, carbon recycling can be achieved through photosynthesis of plant growth. As another significant material, biodegradable polymers, which are decomposed into CO₂ and H₂O in nature by microorganisms, have been widely researched all over the world, with some studies focusing on marine decomposed polymers to solve the problem of micro-plastics in the ocean. For the construction of a sustainable society, it would be necessary to develop technologies for the efficient production of materials from biomass and for the development of materials with a low environmental impact.

Thus, this Special Issue invites researchers to submit original research and review articles on biodegradable polymers. describing their synthesis, processing, the course of degradation, as well as examples of various interesting applications.





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Message from the Editor-in-Chief

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I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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