

Special Issue

Frontiers in Biodegradable Polymer: From Design to Applications

Message from the Guest Editors

The frontier of bio-based and biodegradable polymers is constantly moving forward. With finite petroleum resources, and a growing problem of persistent plastics accumulating in the environment, bio-based and biodegradable plastics are the clear material of choice for the future. For medical, agricultural, and industrial applications, there has been a huge interest in, and research done, on advancing the knowledge and understanding of their synthesis, and the structure-property-application relationship. Emerging areas of research in the fabrication and processing of biodegradable nanomaterials, nanoparticles, and nanofibers into devices has taken biodegradable polymers to advanced applications such as sensors, smart scaffolds, and the controlled delivery of bioactives and therapeutics. This Special Issue focuses on a broad range of state-of-the-art technologies in the synthesis and fabrication of biodegradable polymers, and their properties and applications in novel and commercial products, as well as unmet challenges and future frontiers.

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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