



Preparation, Characterization, and Application of Degradable and Antibacterial Materials

Guest Editor:

Dr. Samy Madbouly

Pacific Northwest National
Laboratory (PNNL), Richland, WA
99354, USA

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Message from the Guest Editor

Petroleum-based plastics are not sustainable and might exacerbate the risk for air, water, and soil pollutions. Wood, lignocellulose, starch, sugars, proteins, and plant oils are the most widely used renewable feedstocks in making different bio-based polymers for different applications. Biodegradable polymers have been developed to fulfill most of the functions of petroleum-based materials in applications ranging from packaging to durable goods and have a major advantage over nonbiodegradable polymers in terms of degradation. The aim of this Special Issue is to cover new research topics related to biodegradable and antibacterial polymers, blends, gels, dispersions, and composites, from renewable resources, bacterial fermentation, and polymerization of biomonomers. Studies on the characterization, processing, rheology, shape-memory effect, self-healing, applications, and life cycle assessment of different types of bio-based and/or biodegradable polymers and composites are within the scope of this Special Issue. Researchers are cordially invited to contribute original research and review articles to this Special Issue.





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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

Message from the Editor-in-Chief

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Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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