

Special Issue

Bio-Polymer Materials and Bio-Refinery 2.0

Message from the Guest Editors

Plastic pollution has caused irreversible damage to the soil and water environment. In order to solve this problem, many countries have begun to implement the plan of "banning the use of non-degradable plastics". It is of great significance to use renewable biomass (e.g., cereals, legumes, straw, bamboo, and wood flour) as raw material to obtain biopolymer materials or monomers through biological or chemical transformation, and then to further polymerize them to form degradable bio-based materials that can replace plastics.

The purpose of this Special Issue is to solicit innovative technologies and methods for the efficient conversion of green and renewable starch, chitosan, and lignocellulosic biomass into renewable energy, materials, and chemicals through the biorefinery process, with a specific focus on industrial applications. The Special Issue aims to attract academics, researchers, students, post-graduate students, and professional engineers dealing with, but not limited to, biobased materials and polymers, as well as biorefinery technology.

Guest Editors

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Deadline for manuscript submissions

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