Special Issue

Lignocellulose Based Biofuels and Biomaterials

Message from the Guest Editors

Lignocellulosic biomass has been considered one of the most promising feedstocks for the production of biofuels and biomaterials following the depletion of petroleum. However, the hierarchical and multi-layered structure of lignocellulose cell wall is the major barrier for the efficient conversion of lignocellulose to value-added products such as biofuels. Advanced pretreatment methods with low economic cost, high efficiency, and less environmental pollution are needed to firstly convert lignocellulose to platform chemicals which can be further synthesized through various biofinery processes to proceed liquid biofuels, solid biofuels, gas biofuels, and other energy storage materials. Thus, the novel facility, biofinery process, and green technologies to integrate lignocelluslose extraction and transformation into a wider spectrum of marketable and value-added products are explored in the current Special issue “Lignocellulose Based Biofuels and Biomaterials”.

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Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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