

Special Issue

Lignocellulose Bioconversion and High-Value Utilization

Message from the Guest Editor

Lignocellulosic biomass, the most abundant sustainable carbon source on the planet, has been considered to be an alternative to fossil resources in the production of fuels, chemicals, and functional materials.

Lignocellulose is composed of cellulose, hemicellulose, and lignin, which can be bio-converted into biofuels and chemicals via pretreatment, enzymatic hydrolysis, and fermentation. Many efforts have been made in recent years to develop new or superior pretreatment process, find novel enzymes, enzyme cocktails, and chemical catalysts, and create novel strains or chemical reactions, which promote the high-efficient conversion of lignocellulose. Furthermore, biomass-based functional materials have also been developed, expanding the range of high-value applications for lignocellulose. This Special Issue is aimed at presenting the state of the art in the lignocellulose bioconversion and high-value utilization. We invite authors to contribute their latest works in the form of original research and review articles.

Guest Editor

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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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