Special Issue

Lignocellulose Fractionation, Depolymerisation, and Upgrading—from Lignin to Valuable Products

Message from the Guest Editors

Lignin is one of the most commonly available types of biopolymers worldwide. However, both chemical structure and properties (e.g., molecular weight) vary widely between species. This, of course, determines the field of use for different lignins. In this Special Issue of *Molecules*, we will focus on the depolymerization of lignin, different valorisation alternatives, as well as advanced analytical techniques and approaches used for lignin characterization. Additionally, the separation of lignin in a non-destructive way using state-of-the-art pulping technologies is of interest.

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As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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