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Pretreatment and Bioconversion of Crop Residues

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Message from the Guest Editor

Dear Colleagues,

Crop residues are widespread lignocellulosic materials with high potential as feedstocks for producing biofuels and chemicals via sugar–platform processes, in which polysaccharides are hydrolyzed to sugars for further conversion through microbial, enzymatic or chemical processing. By implementing pretreatment, the inherent recalcitrance of lignocellulosic feedstocks is removed or weakened in such a way that the feedstock turns amenable for enzymatic saccharification. Lignocellulose pretreatment is still an open topic, since most of the existing methods are far from being mature for implementation in commercial-scale biorefineries. Furthermore, pretreatment effectiveness is feedstock-dependent, and new research is required to develop efficient methods for different materials. This Special Issue is devoted to summarizing the latest advances in pretreatment and bioconversion of crop residues. Contributions concerning novel pretreatment and bioconversion approaches and methods applicable to agricultural, agro-industrial, and food industry residues are especially welcome.

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Message from the Editor-in-Chief

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