



Chemistry of Lignin-Based Materials

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Message from the Guest Editors

Lignin is the second most important polymer in the lignocellulosic materials, such as biomass. The valorization of biomass under biorefinery concepts, the circular economy and the zero-waste philosophy passes with no doubt thru the valorization of its cell wall constituents, in particular lignin. The use of lignin presents many advantages (it is a natural resource, is biodegradable, has low toxicity for some applications, has high carbon content). Still, it also presents some disadvantages (e.g., recalcitrant polymer and has different types of functional groups).

So, lignin valorization and applications represent a challenge to researchers. In this special, we invite our colleagues to present their works related to lignin characterization and valorization, emphasizing lignin applications the so-called lignin-based materials (e.g. hydrogels, lignin nanoparticles, adhesives, etc.).





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Message from the Editor-in-Chief

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