



## Cellulose-Based Functional Materials

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### Message from the Guest Editors

Cellulose is one of the most abundant biomaterials in nature. It is a homopolymer of glucose linked with  $\beta$ ,1-4 glycosidic bonds. Cellulose can be derived from plants (such as wood) and fabricated either as the scaffold biomaterials or as cellulose slurries for further functionalization. In the case of cellulose scaffold, chemical or enzymatic pretreatment of plants is critical to removing the lignin and hemicellulose, leaving appropriate space for the grafting of functional groups.

Cellulose-based biomaterials are applied in wide areas, such as energy-saving building blocks, solar cells, phase-changing devices, water/oil separation, heavy metal remediation, coatings and paints, controlled-release fertilizer, etc. In this Special Issue, the functionalization, modification, and application of lignocellulosic biomaterials will also be considered.





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