Special Issue

Green Synthesis and Functionalization of Cellulose Fibers

Message from the Guest Editors

Natural cellulose fibers can be isolated from wood or non-woody plants such as hemp, jute, flax, and bamboo and cellulose fibrils can be obtained from bacteria by chemical or mechanical treatments and purification methods. To make it suitable for targeted applications, cellulose fibers and fibrils are modified with functional moieties.

This Special Issue focuses on recent developments in green synthesis modification or immobilization of functional materials in cellulose fibers and fibrils obtained from wood or plant sources or from bacterial origin. In particular, the topics of interest include, but are not limited to the following: Functionalization:

- with green synthesized metals
- with green synthesized metal oxides
- with green synthesized quantum dots
- with green synthesized biomolecules/polymers
- with green synthesized carbon materials

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