



Cellulose (Nano)Composites II

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Message from the Guest Editors

From the first publication on cellulose nanocomposites in the mid-90s, this topic has experienced an exponential growth. Many works have focused on the extraction of cellulose nanocrystals or nanowhiskers from different sources including biomass, on the defibrillation of cellulose fibers and biosynthesis of bacterial cellulose. Tremendous advancement was signaled in the understanding of nanocellulose properties, its behavior in various environments and in contact to polymers, other nanoparticles or compounds. Cellulose micro and nanomaterials as fibers, whiskers, films, coatings, hydrogels or sponges have been tested for different applications, from biomedicine and pharmacy to automobiles, paper making, electronics, food packaging or consumer goods. A special application of micro- and nanocelluloses is to improve the properties and biodegradability of thermoplastic or thermosetting polymers derived from fossil fuel or renewable sources.





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