



Cellulose-Based Nanocomposite Films

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Message from the Guest Editor

Dear Colleagues,

In our modern society, polymer films play a significant role in various sectors ranging from biomedical, building to packaging industries. Combining a polymeric matrix with nanomaterial has allowed developing new materials referred as to polymer-based nanocomposite with significant improvement of their properties. However, the large-scale consumption of petroleum-based polymer nanocomposite has generated serious environmental concerns. Consequently, research aimed at using cellulose, an abundant and renewable material, as an alternative to non-renewable polymers for films industries, has exploded. Moreover, cellulose is well known to contain nano-sized structures, better referred to as nanofibrillated cellulose(NFC) or cellulose nanocrystals(CNC), with outstanding properties.

This Special Issue aims at publishing the latest advances, developments, trends and challenges on cellulose-based nanocomposite films. Brand-new original research, review papers dealing with green extraction and surface modification, characterization, nanocomposites films preparation, melt processing and processing-structure-property relationships characterization are welcome.





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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