Special Issue

Cellulose Nanomaterials

Message from the Guest Editors

This Special Issue of Polymers is dedicated to cellulose nanomaterials. During the past two decades, nanocellulose has received tremendous attention, as documented by a steadily-increasing number of patents and scientific publications. Presently, the knowledge generated here finally translates into increasing production capacities and emerging applications of this still comparably new high-performance bio-based material. Even so, important challenges with regard to a widespread utilization of nanocellulose are still to be overcome. Among those, the need for processing, transport, and storage of nanocellulose in dilute aqueous suspension, and the lack of inherent surface-chemical compatibility of nanocellulose with many widely used non-polar polymers, are probably most important. In order to reflect the current state of the art on the subject and to explore potential future developments, the present Special Issue welcomes submissions on all aspects of cellulose nanomaterials ranging from nanocellulose production and characterization to surface modification, processing, and new applications.

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