Special Issue

Advances in Cellulose Nanomaterials Production and Applications

Message from the Guest Editors

Cellulose nanomaterials have been attracting great attention recently in the research community for their unique morphological, mechanical, and optical properties for a variety of applications for sustainable economic development. Cellulose is renewable and found in abundance; however, only with the sustainable production of cellulose nanomaterials can the materials become truly sustainable. Existing production methods, while having achieved great success in providing materials for laboratory applications, are mostly expensive and have unintended impacts on the environment. As a result, their commercial applications remain a challenge. Manuscripts are welcomed for submission to cover the topics of the novel and sustainable production of cellulose nanomaterials, including microscale cellulose fibrils, from a variety of natural resources; the characterization of such materials; the varied applications of such materials (including papermaking, composites, viscosity modifiers, 3D printing, biomedical and optical applications, etc.); as well as using the biorefinery approach to valorize all components of lignocellulosic materials in addition to producing lignocellulosic nanomaterials.

Guest Editors

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