

Special Issue

Preparation and Application of Biomass-Based Nanocellulose

Message from the Guest Editors

Dear Colleague, We invite you to submit your research to this Special Issue entitled *Preparation and Application of Biomass-Based Nanocellulose*. With the rising prominence of global climate change and resource shortage, in recent years increased attention has been paid to environmentally friendly materials. Biomass is a sustainable and renewable material that can provide us with shelter and oxygen and can remove carbon dioxide from the atmosphere. Nanocellulose is a kind of eco-friendly nanomaterial isolated from bio-cellulosic fibers, such as wood, cotton, hemp, agricultural crops, by-products, etc. Nanocellulose has obtained increasing attention owing to its high strength and stiffness, low density, biodegradability, and nano-scale cellulosic fibrils. It has shown great potential as a reinforcing material for composites, transparent biomaterials, green electronics, flexible displays, drug releases, etc. Advanced materials based on nanocellulose have attracted much attention in materials science. The aim of this Special Issue is to document the recent experimental and computational advances in the preparation and advanced applications of nanocellulose isolated from biomass.

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Message from the Editorial Board

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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