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New Horizon in Cellulose Nanofiber and Its Materials

Guest Editor:

Prof. Dr. Masaya Nogi
Osaka University, Suita, Japan

Deadline for manuscript submissions:
closed (10 July 2021)

Message from the Guest Editor

Dear Colleagues,

Cellulose nanofibers (CNFs) are lightweight and strong nanofibers made from plants. It is typically made by wood pulp, which is further fibrillated to nano levels to make cellulose nanofibers. In the last decade, the polymer composites reinforced with CNFs have received as much attention as structural materials.

This Special Issue aims to cover a broad range of CNFs and their materials from academic or industrial scientific views. Perspectives, review articles, full paper, short communication, and technical papers on this topic are welcome. Potential topics include, but are not limited to:

- evaluations of nanocellulose (cellulose nanofiber, cellulose nanocrystals, micro-fibrillated cellulose, bacterial cellulose)
- lignocellulose and related biopolymers
- nanofibrillation process and the starting pulps or plants
- nanocellulose suspensions and emulsions
- polymers composites: their compounding process and the mechanical properties
- functional nanocellulose materials by adding of organic/inorganic materials
- nanocellulose film or foams
- advanced nanocellulose applications

Prof. Masaya Nogi
Guest Editor

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Special Issue

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Editor-in-Chief

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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