



Nanocellulose Based Functional Materials

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Message from the Guest Editors

Nanocellulose is the most abundant natural polymer material on Earth. Due to its environmentally-friendly nature, the study of nanocellulose and nanocellulose-based functional materials has increased exponentially in that last few decades. Furthermore, the biocompatibility, renewability, piezoelectricity, high specific strength and modulus, dielectric characteristic, low thermal expansion, and optical transparency make nanocellulose beneficial for not only structural applications but also flexible displays, optical devices, sensors, actuators, and flexible electronics. Therefore, nanocellulose-based functional materials can be a building block of future materials in the post-carbon era.

This Special Issue will focus on the development of nanocellulose-based functional materials and their potential applications, including but not limited to the following areas:

- High-strength nanocomposites;
- Sensors and actuators;
- Optical applications;
- Electromechanical behavior;
- Energy storage applications;
- Energy harvesting applications;
- Smart functional materials.





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Message from the Editor-in-Chief

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