

Special Issue

Preparation, Characterization and Industrial Application of Nanocellulose

Message from the Guest Editors

Despite the extraordinary properties of nanocellulose (NC), as confirmed through two decades of exhaustive research, addressing an array of potential applications, the NC market is still far from reaching its full potential. Among the main causes are (i) the lack of process-adapted measuring tools capable of characterizing NC, at acceptable speed and reliability, to meet the industrial demands in a cost-effective way; (ii) the need to decrease the energy consumption of production processes, the cost of reagents and the difficulty of scaling up production processes specially on a large-scale application; and (iii) probe concept for new applications.

For all above issues new scientific-technical advances are needed. This special issue welcomes novel contributions on characterization, production, and application of nanocellulose. Full papers, short communications, and reviews are welcome.

Submissions with outstanding contributions to accelerate the generation of new knowledge and to make significant advances in the industrial use of NCs are especially welcome.

Guest Editors

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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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