Special Issue

Nanocellulose-Based Materials: Structure, Properties and Applications

Message from the Guest Editors

For centuries, the usage of non-renewable materials has monopolized the development of research in almost every field. Nowadays, one of the most urgent responsibilities of our society is the replacement of such materials with sustainable alternatives. The challenge is to find suitable substitutes able to preserve or, ideally, improve the intrinsic properties of in-use substances. In the last decades, the growing interest towards nanocellulose-based materials has demonstrated they are appropriate and reliable options. In fact, their unique physicochemical, mechanical, and optical properties; biocompatibility and biodegradability; and, also, the easy availability and the low price have led to these versatile materials being used to cover a wide range of applications, such as in biomedical devices, as conductive materials for energy storage, as ecofriendly fillers for innovative composites, as thin films for packaging, and many more. This Special Issue will be focused on innovative modifications and novel applications of nanocellulose-based materials.

Guest Editors

Dr. Andrea Bernardi

1. Department of Chemistry, Materials and Chemical Engineering "Giulio Natta", Politecnico di Milano, via Mancinelli 7, 20131 Milano, Italy;
2. Raw Material Laboratory, Pirelli Tyre S.p.a., Viale Piero e Alberto Pirelli, 25 - 20126 Milano, Italy

Prof. Dr. Elena Vismara

Department of Chemistry, Materials and Chemical Engineering "Giulio Natta", Politecnico di Milano, Via Mancinelli 7, 20131 Milan, Italy

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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