Special Issue

Synthesis, Applications and Biological Impact of Nanocellulose

Message from the Guest Editors

Interest in nanocellulose research continues to increase dramatically in the past few years with advances in the preparation/extraction of nanocellulose such as cellulose nanocrystals (CNC), cellulose nanofibrils (CNF), bacterial nanocellulose (BNC)). There have also been significant developments in the fabrication of functional nanocellulose-based materials for various industrial applications.This Special Issue aims to cover recent advances in the synthesis of nanocellulose, surface modifications for the design of functional nanocellulose as well as applications and biological impact. Manuscripts presenting innovative methods of preparation, design of new advanced nanocellulose-based materials and biomedical applications are most welcome. This Special Issue aims to cover recent advances in the synthesis of nanocellulose, surface modifications for the design of functional nanocellulose as well as applications and biological impact. Manuscripts presenting innovative methods of preparation, design of new advanced nanocellulose-based materials and biomedical applications are most welcome.

Guest Editors

Dr. Rajesh Sunasee

Department of Chemistry, State University of New York at Plattsburgh, 101 Broad Street, Plattsburgh, New York, NY 12901, USA

Dr. Karina Ckless

Department of Chemistry, State University of New York at Plattsburgh, 101 Broad Street, Plattsburgh, New York, NY 12901, USA

Deadline for manuscript submissions

closed (30 April 2022)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.4
CiteScore 8.5
Indexed in PubMed

mdpi.com/si/69439

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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