



fibers



an Open Access Journal by MDPI

Recent Progress in Cellulose Dissolution and Regeneration

Guest Editor:

Prof. Dr. Noureddine Abidi

Fiber and Biopolymer Research
Institute, Department of Plant
and Soil Science, Texas Tech
University, P.O. Box 45019,
Lubbock, TX 79403, USA

Deadline for manuscript
submissions:

closed (15 June 2021)

Message from the Guest Editor

Dear Colleagues,

I would like to invite you to contribute to this Special Issue focused on cellulose dissolution. The increased interest in transforming cellulose to advanced bioproducts has created the need to dissolve and regenerate cellulose in various solvent systems, specifically ionic liquids. The effective dissolution of cellulosic macromolecules is the first predominant step to prepare functional bio-based materials with tunable and desirable properties.

The current Special Issue is intended to summarize the state of the art of the current knowledge of cellulose dissolution and regeneration. Papers are sought on the mechanisms of cellulose dissolution and solvents (such as ionic liquids), chemistry of solvents, cellulose–solvent interactions, rheology of cellulose solution, techniques used to investigate the dissolution, materials formed and their characterization and applications. Papers can be either original research or reviews of the current research.

Prof. Dr. Noureddine Abidi
Guest Editor



mdpi.com/si/19848

Special Issue



fibers



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Martin J. D. Clift

In Vitro Toxicology Group,
Institute of Life Sciences 1,
Swansea University Medical
School (SUMS), Swansea SA2
8PP, Wales, UK

Message from the Editor-in-Chief

Fibers is intended as an integrative platform, bringing together specialists with expertise concerning a large range of biological, synthetic, metallic and mineral fibers. The intent is to bring together scientists who would otherwise be unlikely to encounter each other's findings. By facilitating communication across specialties, the journal will advance understanding of the underlying commonality of many physical and chemical aspects of fibers.

We welcome submission of manuscripts from a diverse range of disciplines relating to many types of fibers utilizing a variety of research approaches.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, ESCI (Web of Science), PubAg, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Materials Science, Multidisciplinary*) / CiteScore - Q1 (Civil and Structural Engineering)

Contact Us

Fibers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/fibers
fibers@mdpi.com
X@JFibers