Special Issue

Cellulose Materials: Present and Future

Message from the Guest Editor

Cellulose nanocrystals (CNCs) and cellulose nanofibrils (CNFs), a class of fascinating bio-based nanomaterials, possess unique physicochemical properties that include a high surface area, adaptable surface chemistry, significant mechanical strength, biocompatibility, biodegradability, and renewability. These sustainable nanomaterials are promising candidates for various applications, including pharmaceuticals, electronics, sensors, membranes, nanocomposites and cosmetics in the form of coatings, fibers or filaments, films, hydrogels, or aerogels. Additionally, due to the abundant chemical groups present on the cellulose nanoparticles and cellulose derivatives, various chemical reactions can be carried out on them. Therefore, a comprehensive understanding of the preparation, modification, characterization, and fabrication of these sustainable cellulose-based materials would contribute to the design of next-generation renewable multifunctional materials for a wide range of applications. This Special Issue, entitled “Cellulose Materials: Present and Future”, welcomes original research, progress reports, and reviews covering the above topics.

Guest Editor

Dr. Han Yang
School of Chemical Engineering, University of Chinese Academy of Sciences, Beijing 101408, China

Deadline for manuscript submissions

31 July 2025

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/209952

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

mdpi.com/journal/molecules

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/journal/molecules

About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the second half of 2024).