



an Open Access Journal by MDPI

Recent Insights into Biopolymer Processing, from Preparation to Fundamental Properties and Industrial Applications

Guest Editors:

Dr. Julia L. Shamshina

Fiber and Biopolymer Research
Institute, Texas Tech University,
Lubbock, TX, USA

Dr. Paula Berton

Department of Chemical and
Petroleum Engineering,
University of Calgary, Calgary, AB,
Canada

Deadline for manuscript
submissions:

28 February 2025

Message from the Guest Editors

Dear Colleagues,

This Special Issue will cover the current state-of-the-art findings in the area of biopolymers (cellulose, chitin, chitosan, starch, lignin, etc.), from fundamental properties of biopolymers and blends to the preparation of materials from them, including composites and nanocomposites. We especially encourage the submission of research works by experts in polymer sciences on the development of new methods and techniques for biopolymers' characterization, processing, and preparation of novel sustainable materials. Invited works include original research articles, reviews and mini-reviews, communications, and editorials

Dr. Julia L. Shamshina

Dr. Paula Berton

Guest Editors



mdpi.com/si/143438

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

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.

Author Benefits

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

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1 (Chemistry (miscellaneous))

Contact Us

Molecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](#)