Special Issue

Chitin and Chitosan: Derivatives and Applications

Message from the Guest Editors

Chitin is a natural linear polysaccharide composed of β-(1–4)-poly-N-acetyl-D-glucosamine units. Chitosan is another nitrogen-containing polysaccharide consisting of β-(1–4)-poly-D-glucosamine units.

Both chitin and chitosan derivatives have excellent biological properties, including being nontoxic, mucoadhesive, hemocompatible, and biodegradable and possessing antitumor, antioxidant, and antimicrobial properties.

This Special Issue titled “Chitin and Chitosan: Derivatives and Applications” aims to gather studies concerning chitin, chitosan, and their derivatives. The main topics of interest are the preparation of chitin, chitosan, or its derivatives and their applications in medicine, cosmetics, the food industry, water treatments, etc. and the effects of these compounds against reactive oxygen species. For this Special Issue, high-quality research papers will be accepted along with review papers summarizing the state of the art of a specific area of this field of research.

Guest Editors

Prof. Dr. Mohamed Samir Mohyeldin

Dr. Katarína Valachová

Dr. Tamer M. Tamer

Deadline for manuscript submissions

closed (30 November 2020)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/46387

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

MDPI

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 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).