

Special Issue

Progress in Preparations and Applications of Chitinous Material

Message from the Guest Editor

Chitinous material including chitin and chitosan are considered to be versatile, environmentally friendly biomaterials. Chitinous material is the most abundant nitrogen-containing polysaccharide in nature. It is found in the exoskeletons of crustaceans, squid pen, and the cell walls of fungi and yeast. Chitinous material is biocompatible, biodegradable, nontoxic, and physiologically inert. Furthermore, chitinous material exhibits bioactivity (antifungal, antibacterial, antitumor, antithrombotic, and anticholesterol) and bioadhesive properties, making it widely applicable in agriculture, food/nutrition, biomedicine, materials science, cosmetics, wastewater treatment, papermaking, textiles, and various other fields. This Special Issue focuses on recent developments in novel preparation methods and applications of chitinous material, such as the purification of chitin by deep eutectic solvent, chitin nanocrystal application in Pickering emulsions, and chitosan application in smart food packaging materials.

Guest Editor

Prof. Dr. Min-Lang Tsai

Department of Food Science, National Taiwan Ocean University, 2
Beining Road, Keelung 202301, Taiwan

Deadline for manuscript submissions

31 May 2026



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/258936

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

[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)





Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)



About the Journal

Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.9.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)