

Special Issue

Natural-Based Polymers for Functional Devices

Message from the Guest Editors

Dear Colleague,

Natural-based polymers can be generally categorized into two classes, (1) naturally derived polymers from plants, animals, and microorganisms and (2) purified, physically and/or chemically modified natural polymers. Natural-based polymers have various advantages, such as greater sustainability, high mechanical and electrochemical stability, high biocompatibility, etc. In recent decades, rapid developments in chemistry and nanotechnologies have led to an arsenal of synthetic protocols which enable scientists to make potentially useful polymer compounds with elegance and accuracy. The versatility in functional groups and structures facilitates the application of natural-based polymers in electrolytes, photocatalysts, electrocatalysts, electronic and photoelectric devices, etc.

This Special Issue calls for full research papers, communications, and review articles on the synthesis, characterization, and applications of natural-based polymers in functional devices. The Special Issue serves to report cutting-edge technologies and explore potential solutions for energy depletion and environmental challenges.

Guest Editors

Dr. Laibao Zhang

Dr. Keisha B. Walters

Prof. Dr. Erick S. Vasquez

Deadline for manuscript submissions

closed (5 March 2023)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/110701

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 4.7.

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)