

Special Issue

Structural and Dynamic Properties of Synthetic Polymers in Complex Environments

Message from the Guest Editors

Single-molecule microscopy has revolutionized our ability to study phenomena at the individual molecular level with spatial resolution at the nanoscale. Single-molecule techniques have enabled us to understand details about, for example, the movement of molecular motors inside cells, mechanisms of macromolecular separation at chromatographic interfaces, and the diffusion in polymer melts. The state-of-the-art single-molecule fluorescence technique detects, quantifies, and analyzes diffusional behavior by identifying the position fluctuation of fluorescent molecules, leading to a profound understanding of many scientific areas that dramatically influence our daily lives. Combined with the rapid progress of single-molecule fluorescence microscopy with skillful chemical labeling, this method could also enable significant advances in polymer science. Therefore, this Special Issue is devoted to the applications of single-molecule fluorescence microscopy for investigations of the structural and dynamic properties of synthetic polymers in various environments.

Guest Editors

Prof. Dr. Dapeng Wang

State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, China

Dr. Guillermo Ahumada

Korean Institute for Basic Science, Center for Soft and Living Matter, Ulsan National Institute of Science and Technology, Ulsan 44919, Republic of Korea

Deadline for manuscript submissions

closed (15 September 2023)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.7
CiteScore 8.0
Indexed in PubMed



mdpi.com/si/81177

Polymers

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 4.7
CiteScore 8.0
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)