

Special Issue

Investigations on Polymer-Based Materials and Structures: Theory, Experimentation and Computation

Message from the Guest Editors

Polymer-based materials and structures (PBMSs) are very interesting materials for broad applications. The investigations on PBMS (e.g., polymerization methodologies, second-order nonlinear optical polymers, luminescent polymers, photovoltaic polymers, electronic/optical polymers, bio-related polymers, supramolecular polymers, stimuli-responsive polymers, shape memory polymers, separation polymer membranes, energy storage polymers, and covalent organic framework polymers, etc.) still face tremendous challenges in the aspects of theory, experimentation, and computation, such as in the constitute or micromechanical modelling and finite element simulation.

Invited papers are not limited in scope to the above topics, and research related to polymer or polymers-based composites is also covered in the current Special Issue. **Early bird discount** can be enjoyed for manuscripts submitted before 31 December 2024. For details, please contact shelly.gu@mdpi.com.

Guest Editors

Dr. Chenlin Li

Dr. Peifeng Gao

Dr. Yilin Zhu

Dr. Yeshou Xu

Dr. Huili Guo

Deadline for manuscript submissions

closed (30 June 2025)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/210534

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)