

## Special Issue

# Mechanical Properties of Polymer Materials, 2nd Edition

### Message from the Guest Editor

Polymer materials are widely used because of their light weight and excellent mechanical properties, either alone or as a matrix of composites. To rationally design polymer materials based on needs, the relationship between polymer microstructure and effective macroscopic properties is currently a focus of research and requires continued exploration. We are pleased to invite you to share research results and exchange ideas on the fabrication, testing, and modelling of high-performance polymers.

This Special Issue aims to provide a comprehensive overview of current knowledge. In this Special Issue, original research articles and reviews are welcome. Research areas may include the elasticity, viscoelasticity, yield, and fracture of polymer materials; the design and fabrication of polymer composites; and accurate and fast testing methods for the mechanical properties of polymers.

We look forward to receiving your contributions.

---

### Guest Editor

Prof. Dr. Li Li

State Key Laboratory of Intelligent Manufacturing Equipment and Technology, School of Mechanical Science and Engineering, Huazhong University of Science and Technology, Wuhan 430074, China

---

### Deadline for manuscript submissions

31 March 2026



## Polymers

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/si/252914](https://mdpi.com/si/252914)

*Polymers*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[polymers@mdpi.com](mailto: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)