

## Special Issue

# Functional Polymer-Associated Self-Healing Materials

### Message from the Guest Editors

Material degradation occurs everywhere in our daily life. The combination of environment and load causes the deterioration of materials and structures. There have been many renovation methods for repairing damaged materials and structures. Traditional renovation technology needs periodical maintenance. It is a post renovation, passive mode and could result in a high cost. In contrast, in nature, damage can usually be self-healed. Thus, structures that mimic nature and self-healing could be of great interest and have attracted more and more researchers' attention. Self-healing technology has been proposed and developed recently. This Special Issue aims to highlight various aspects of self-healing materials, which include novel schemes, physical and chemical properties, evaluation, and future applications. We look forward to your exciting contributions.

### Guest Editors

Prof. Dr. Xianfeng Wang  
Dr. Jun Ren  
Prof. Dr. Biqin Dong

### Deadline for manuscript submissions

closed (25 September 2024)



## Polymers

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/si/178849](https://mdpi.com/si/178849)

*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

Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für  
Polymermaterialien und Polymertechnologie, Universität Potsdam,  
Geiselbergstraße 69, 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, CAPIus / SciFinder, Inspec, and other databases.

#### Journal Rank:

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