

## Special Issue

# High-Energy-Density Polymer-Based Materials

### Message from the Guest Editors

The high-energy-density polymer-based materials in this Special Issue refer to polymer composite materials that can store a large amount of energy per unit volume and that are widely used in energy storage, propulsion systems, blasting engineering, fuel cells, and other fields. With increasing attention paid to energy and national security, the synthesis, modification, molding, and application research of high-energy-density materials have been developed more widely and more rapidly. This Special Issue aims to reveal the inherent laws of atomic and molecular structures in the performance of high-energy-density materials, form a related theoretical system, reduce our reliance on empirical rules in the development of high-energy-density materials, and build a communication platform for the high-performance applications and safety and performance evaluations of high-energy-density materials. **Scholars are welcome to submit relevant papers.**

### Guest Editors

Prof. Dr. Min Xia  
Dr. Zhengmao Ding  
Prof. Dr. Chao Wang

### Deadline for manuscript submissions

31 December 2025



## Polymers

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/si/241255](https://mdpi.com/si/241255)

*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)