



## Emerging Smart Applications of Functional Polymeric Materials

Guest Editors:

**Prof. Dr. Jinhui Wang**

Key Laboratory for Special  
Functional Materials of Ministry  
of Education, Henan University,  
Kaifeng, China

**Prof. Dr. Zhuanpei Wang**

Key Laboratory for Special  
Functional Materials of Ministry  
of Education, Henan University,  
Kaifeng, China

**Dr. Congyuan Wei**

Key Laboratory for Special  
Functional Materials of Ministry  
of Education, Henan University,  
Kaifeng, China

Deadline for manuscript  
submissions:

**closed (10 May 2024)**

### Message from the Guest Editors

Dear Colleagues,

In the last decade, the rapid development of science and technology has promoted the exploration of functional polymer systems. Functional polymeric materials and films can produce unique physical/chemical properties, including optical, electrical, thermal, and magnetic properties, thus leading to a wide range of applications in energy, bionics, sensing, and other intelligent fields. This Special Issue focuses on the most recent advances in research on the development of functional materials and their emerging smart applications. We would be delighted if you would agree to join us in this endeavor by submitting your most recent original research articles and reviews to this Special Issue. The topics include, but are not limited to, the following:

- Stimulus-responsive polymer materials and films;
- Functional polymeric materials and films in energy storage and conversion;
- Polymeric film-based flexible electronics and soft robotics;
- Nature-inspired self-assembly of functional polymers.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien  
und Polymertechnologie,  
University of Potsdam, 14476  
Potsdam-Golm, Germany

## 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 5.0.

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.

## 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)

## Contact Us

---

*Polymers* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/polymers](http://mdpi.com/journal/polymers)  
[polymers@mdpi.com](mailto:polymers@mdpi.com)  
[X@Polymers\\_MDPI](https://twitter.com/Polymers_MDPI)