

## Special Issue

# Advanced Polymeric Materials for Electrical Insulation and High-Voltage Applications

### Message from the Guest Editor

This Special Issue focuses on advanced polymeric materials for electrical insulation and high-voltage applications. It aims to present the latest research and developments in polymeric materials that exhibit exceptional electrical insulation properties, thermal stability and mechanical strength, making them suitable for use in high-voltage equipment, insulators, power cables and other electrical insulation systems. This Special Issue covers various aspects of polymeric materials, including their synthesis, processing, characterization and application in electrical insulation. It explores the challenges and opportunities in developing new polymeric materials for high-voltage applications, with a focus on improving the performance, reliability and safety of electrical insulation systems. This Special Issue also highlights the potential of these advanced polymeric materials to revolutionize the electrical insulation industry by providing innovative solutions to existing problems and enabling the development of more efficient and sustainable high-voltage technologies.

### Guest Editor

Prof. Dr. Zhijin Zhang

School of Electrical Engineering, Chongqing university, Chongqing 400044, China

### Deadline for manuscript submissions

20 September 2025



## Polymers

---

an Open Access Journal  
by MDPI

---

**Impact Factor 4.9**  
**CiteScore 9.7**  
**Indexed in PubMed**



[mdpi.com/si/215285](https://mdpi.com/si/215285)

*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 4.7.

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)