



## Novel Conjugated Polymers and Conductive Polymers

Guest Editors:

**Dr. Yanhua Lei**

Institute of Marine Materials  
Science and Engineering,  
Shanghai Maritime University,  
Shanghai, China

**Dr. Kai Sun**

School of Marine Science and  
Engineering, Shanghai Maritime  
University, Shanghai, China

Deadline for manuscript  
submissions:

**31 December 2024**

### Message from the Guest Editors

Conducting polymers and conjugated polymers are extensively studied due to their outstanding properties, including tunable electrical properties, optical and substantial mechanical properties, easy synthesis and effortless fabrication, and high environmental stability over conventional inorganic materials. The synergetic effects of conducting polymer composites give them wide-ranging applications in electrical, electronic, optoelectronic, catalytic, and corrosion-protective fields. Here, in this SI, we seek to describe the transport models that help to explain the conduction mechanism, relevant synthesis approaches, and physical properties, including electrical, optical, and mechanical properties. Recent developments in their applications in the fields of energy storage, photocatalysis, anticorrosion coatings, biomedical applications, and sensing applications are also welcome.

[https://www.mdpi.com/journal/polymers/special\\_issues/G7G8R6](https://www.mdpi.com/journal/polymers/special_issues/G7G8R6)





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 (*Polymers and Plastics*)

## Contact Us

---

*Polymers*  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/polymers  
polymers@mdpi.com  
@Polymers\_MDPI