

Special Issue

Research on Room-Temperature Phosphorescence Polymer Materials

Message from the Guest Editor

Polymer-based room-temperature phosphorescent (RTP) materials have attracted considerable attention in the past few decades due to their advantages, such as easy processing, good flexibility, and low toxicity. Lots of studies have made a great effort to develop RTP materials possessing excellent luminescent performance, including a long lifetime and high brightness. In spite of this, there are some unexplored fields and great challenges, such as achieving long-lived RTP systems or even ultra-long-lived RTP emissions, due to the strong non-radiative decay caused by the quenching of long-lived triplet states via thermal vibrations, oxygen, and other factors, as well as intersystem crossing (ISC), stability, and repeatability. This Special Issue of *Polymers* will cover a broad range of research activities, such as polymer structural design, synthetic methods (chemical or physical approaches), phosphorescent properties, and deep insights into action mechanisms and applications. In addition, review papers featuring progress in a particular area are welcomed.

Guest Editor

Dr. Lingyan Liu

The State Key Laboratory and Institute of Elemento-Organic Chemistry,
College of Chemistry, Nankai University, Tianjin 300071, China

Deadline for manuscript submissions

10 January 2026



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/246518

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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

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)