Special Issue

Advances in Characterization, Measurement and Electrical Performance of Polymer and Composites Materials

Message from the Guest Editor

It is essential to further summarize and discuss the polymer materials with high performance, particularly focusing on the fundamental research and advancements in the characterization and measurement of electrical properties. Despite numerous employed methods, such as SEM, TEM, and AFM for microstructure analysis, studies on electrical and optical performances remain highly relevant. Many research groups extensively investigate nanocomposites with interface morphology, material aging, degradation, and breakdown in great detail. The emergence of new operating conditions like high temperature and multi-frequency electric strength necessitates well-defined materials with newly developed methods and phenomena.

This Special Issue focuses on polymer and composite materials that have excellent electrical performance, as well as advanced methods for short- and long-term operations. The list of keywords provided below provides a general description of the topics covered, which can be helpful in preparing your submission. However, manuscripts related to this field are welcome even if they do not include these specific keywords.

Guest Editor

Dr. Weiwang Wang

State Key Laboratory of Electrical Insulation and Power Equipment, Xi'an Jiaotong University, Xi'an 710049, China

Deadline for manuscript submissions

30 November 2025

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/203694

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

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

MDPI

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)