

Special Issue

Processing of Polymer Composites—Preparation, Structure, Properties and Applications

Message from the Guest Editors

Polymer composites are critical for applications in the automotive, electronics, packaging, and aerospace sectors, among others, thanks to their flexible designability, lightweightness, low cost, and ease of processing when compared with metallic and ceramic counterparts. Processing methods of interest include melt compounding, injection molding, casting, calendaring, foaming, mixing, etc., which have been developed to prepare multifunctional composites to address the demanding needs for the above industrial sectors. Relevant progress in modeling is also within the scope of the topic. This Special Issue is dedicated to providing a forum for the preparation of polymer composites with a particular focus on the state-of-the-art progress, structural design, development, and new trends. keywords:

- processing of polymer composites
- thermal interface materials
- electrical conductivity
- thermal conductivity
- functional fillers
- modification of fillers
- polymer blends
- processing conditions
- thermoplastic composites
- thermoset composites
- foams
- characterization methods
- modeling
- process–structure–properties

Guest Editors

Dr. Shengtai Zhou

State Key Laboratory of Advanced Polymer Materials, Polymer Research Institute, Sichuan University, Chengdu 610065, China

Dr. Zhongguo Zhao

National and Local Engineering Laboratory for Slag Comprehensive Utilization and Environment Technology, School of Materials Science and Engineering, Shaanxi University of Technology, Hanzhong 723000, China



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/223393

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

Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für Polymermaterialien und Polymertechnologie, Universität Potsdam, Geiselbergstraße 69, 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, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)