

Special Issue

Polymers and Polymeric Composites Application for Mechanical Engineering

Message from the Guest Editor

Polymers and polymeric composites show viscoelasticity, which has been applied as a damping design for elastic wave energy dissipation in engineering practice, such as in the fields of aerospace, transportation, military and mechanical engineering. At present, with the trend towards energy conservation, lighter-weight and higher-speed design for mechanical structures and equipment, the acoustic and vibration problems are amplified, and the response structures are potentially larger and less desirable. Through the theory of elastic wave propagation in solid media and the energy dissipation mechanism of viscoelastic damping, polymers and polymeric composites can be considered efficient materials with the potential to conquer these issues. This Special Issue focuses on recent advances in polymers, polymeric composites and related applications for mechanical engineering in terms of elastic wave dissipation.

Guest Editor

Prof. Dr. Xiaoqiang Zhou

Department of Mechanics, School of Aerospace Engineering,
Huazhong University of Science and Technology, Wuhan, China

Deadline for manuscript submissions

closed (25 August 2024)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/161168

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)