

Special Issue

Shape Memory and Functional Polymers

Message from the Guest Editors

This Special Issue on “Shape Memory and Functional Polymers” is devoted to the dissemination of high-quality original research articles or comprehensive reviews on cutting-edge developments in this interesting and contemporary field of research. Polymers offer a set of interesting features, and the capability of incorporation of shape memory properties or other functional characteristics opens a vast, new field of applications, from biomedical devices to sensors, structural morphing, and vibration control. Shape memory polymers (SMPs) and their composites (SMPCs) are remarkably interesting materials when designing structures or devices capable of responding to external stimuli. The cost of the material, the tailoring freedom through controlled polymer synthesis or material blending, allied to fast and cost-effective transformation processes, including additive manufacturing processes, dictate the interest in these materials. Moreover, the freedom to create complex geometries using polymers is one of the most important advantages of these materials when compared to other functional materials, including shape memory alloys.

Guest Editors

Dr. Rui A. S. Moreira

1. TEMA—Centre for Mechanical Technology and Automation, Department of Mechanical Engineering, University of Aveiro, 3810-193 Aveiro, Portugal
2. LASI—Intelligent Systems Associate Laboratory (LASI), 4800-058 Guimarães, Portugal

Dr. Mónica S. A. Oliveira

Department of Mechanical Engineering, University of Aveiro, Aveiro, Portugal

Deadline for manuscript submissions

closed (5 October 2024)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/70610

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 4.7.

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)