

## Special Issue

# Mechanical and Failure Behavior of Polymeric Composites

### Message from the Guest Editor

This Special Issue is focused on the mechanical behavior and integrity analysis of polymeric composites. It is expected that the papers to be submitted should focus on fundamental and applied issues, including computational, theoretical, and experimental contributions. The objective is to bring together works by specialists for an in-depth discussion on the various aspects covered by this great branch of science and technology. As suggestions, the following topics can be cited: nonlinear behavior of composite structures subjected to severe loads under adverse environmental conditions; fracture damage and fatigue damage; creep damage; lifetime prediction; composite systems used to repair or reinforce damaged metal or concrete structures; composite technology for hydrogen pipelines and hydrogen storage.

---

### Guest Editor

Prof. Dr. Heraldo Silva Da Costa Mattos

Theoretical and Applied Mechanics Laboratory (LMTA), Mechanical Engineering Postgraduate Program (PGMEC), Universidade Federal Fluminense (UFF), Niteroi, RJ, Brazil

---

### Deadline for manuscript submissions

closed (31 July 2024)



# Polymers

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9

CiteScore 9.7

Indexed in PubMed



[mdpi.com/si/177921](http://mdpi.com/si/177921)

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

[mdpi.com/journal/  
polymers](http://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](http://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, CAPlus / SciFinder, Inspec, and other databases.

#### Journal Rank:

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

