

## Special Issue

# Mechanical Behavior of Polymer Composites

### Message from the Guest Editors

Over the past few years, polymer science has played a crucial role in an enormous number of research fields, such as, automotive, aerospace, biomedical, sports, and civil engineering, for which new advanced polymeric materials have been developed to overcome the existing daily challenges. This Special Issue on the mechanical behavior of polymer-based composites will contain original research and review papers on key topics, including (but not limited to) the following:

- Experimental methods in mechanical investigations;
- Influences of processing on mechanical properties;
- Impact, fatigue, and damage/failure mechanisms;
- Mechanical behavior of additively manufactured polymer products;
- Fracture phenomena and modeling;
- Multiaxial loading response of polymers;
- Viscoelastic and viscoplastic characterization and modeling;
- Application of numerical techniques, including the Finite Element Method;

It is our pleasure to invite you to submit a manuscript to this Special Issue “Mechanical Behavior of Polymer Composites”. Full papers and reviews are all welcome.

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### Guest Editors

Prof. Dr. José Roberto Moraes d'Almeida

Prof. Dr. Mikael Skrifvars

Dr. Daniel Carlos Taissum Cardoso

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### Deadline for manuscript submissions

31 January 2026



## Polymers

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Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



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## 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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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