

## Special Issue

# Additive Manufacturing and Rheology of Polymer Materials

### Message from the Guest Editors

The precise control of the shape and performance of additively manufactured polymer parts is greatly dependent on the rheological properties of the adopted material. The wide application of additive manufacturing techniques in practical industry is largely limited by uncontrollable mechanical properties, dimension accuracy, printing efficiency etc., thus a thorough understanding of the additive manufacturing mechanism and its potential for performance improvement is required. We welcome the submission of papers on topics including but not limited to the following:

- New techniques for the additive manufacturing of polymers;
- Insights into the additive manufacturing of polymers;
- Investigation of processing–structure–properties relationships;
- Rheological analysis in printing processes;
- Rheological regulation of printing materials;
- Property enhancement based on rheological manipulation;
- Discussion on the formation of interface layers;
- Other topics in polymer additive manufacturing with the involvement of rheology.

---

### Guest Editors

Dr. Xiang Lin

Dr. Runguo Wang

Dr. Sisi Wang

Prof. Dr. Qingshi Meng

---

### Deadline for manuscript submissions

closed (31 January 2023)



## Polymers

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/si/132889](https://mdpi.com/si/132889)

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