



## Manufacturing of Polymer-Matrix Composites

Guest Editors:

**Prof. Dr. Thomas Neumeyer**

Leibniz Institute for Composite Materials (IWW), University of Kaiserslautern-Landau (RPTU), 67663 Kaiserslautern, Germany

**Prof. Dr. Volker Altstädt**

Department of Polymer Engineering, University of Bayreuth, 95444 Bayreuth, Germany

Deadline for manuscript submissions:

**5 August 2024**

### Message from the Guest Editors

Polymer–matrix composites play a central role in the energy transition with their low density. Wind rotor blades, pressure tanks for hydrogen, battery housings—none of these applications can operate without those materials. Lightweight materials combined with a high degree of functional integration offer many opportunities to reduce moving masses and thus significantly contribute to resource efficiency and sustainability. The properties of the composite parts can be tailored based on the type of reinforcement and the selected processing technique.

In this Special Issue, new approaches with respect to the processing of polymer composites will be presented and discussed. Contributions focused on the manufacturing of polymer–matrix composites in any of the following topics are of particular interest:

- Novel processing approaches for thermosets as well as for thermoplastic polymer composites;
- Fibers and textiles;
- Additive manufacturing technologies for polymer composites;
- Resource-efficient processing technologies for polymer–matrix composites;
- Joining technologies for polymer composites;
- Process monitoring, modeling, and control.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Alexander Böker**

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

## 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 5.0.

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.

## 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 (*Polymers and Plastics*)

## Contact Us

---

*Polymers* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/polymers](http://mdpi.com/journal/polymers)  
[polymers@mdpi.com](mailto:polymers@mdpi.com)  
[X@Polymers\\_MDPI](https://twitter.com/Polymers_MDPI)