

## Special Issue

# Heat and Mass Transfer in Porous Polymers

### Message from the Guest Editor

Porous polymers have wide applications in many different fields, including textile fabric, fiber reinforced composite, fuel cells, filtration, thermal insulation, paper products, and tissue scaffold. The transport phenomena in porous polymers are complex processes. Once the microstructures of porous polymers are determined, transport properties, such as permeability, diffusion coefficient, and thermal conductivity, may be determined by numerical and/or analytical fractal techniques. This Special Issue calls for the submission of high-quality research papers with an emphasis on both fundamental research and applications. Topics include, but are not limited to, the following: Novel methods in modeling heat and mass transfer through porous polymers; Non-Darcy and/or nonlinear flow in porous polymers; Characterizations of transport properties of porous polymers; Reconstruction of polymer morphology; Multi-scale and multi-physics theories in porous polymers; Advances in applications of polymers, such as in medical facilities for anti-COVID-19.

### Guest Editor

Prof. Dr. Boqi Xiao

School of Mechanical and Electrical Engineering, Wuhan Institute of Technology, Wuhan 430205, China

### Deadline for manuscript submissions

closed (29 April 2022)



## Polymers

an Open Access Journal  
by MDPI

Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/si/83239](https://mdpi.com/si/83239)

*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 4.7.

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)