

## Special Issue

# Advances in Separation and Purification with Polymeric Membranes

### Message from the Guest Editor

The rapid growth of the membrane market was driven by advances in polymer science and membrane process engineering. Compared to other purification processes, membrane technology is displacing established molecular-separation processes by avoiding energy-intensive phase changes, achieving higher efficiency at lower cost. The use of the electrospinning techniques, ionic liquids (ILs), molecular organic frameworks (MOFs), zeolitic imidazolate frameworks (ZIFs), and the preparation of mixed matrix membranes (MMMs), which combine a polymeric matrix with an inorganic filler, have all blossomed over the last decade. In general, this Special Issue is oriented to experimental studies and theoretical analyses of phenomena associated with and arising from separation and purification as well as process development and simulation, equipment design and fabrication. Of particular interest are articles aimed at solving separation issues encountered in emerging technologies including fields such as carbon capture, unconventional gas, green technology, biotechnology, energy storage and conversion, and resource recovery and recycling.

### Guest Editor

Dr. Zilong Liu

College of Science, China University of Petroleum-Beijing, Beijing 102249, China

### Deadline for manuscript submissions

closed (25 May 2023)



## Polymers

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.7  
CiteScore 8.0  
Indexed in PubMed



[mdpi.com/si/124073](https://mdpi.com/si/124073)

*Polymers*

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 4.7  
CiteScore 8.0  
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)