



## Functional Polymers for Separation and Purification Applications

Guest Editor:

### Dr. Tian Yao

Key Laboratory of Coarse Cereal Processing, Ministry of Agriculture and Rural Affairs, School of Food and Biological Engineering, Chengdu University, Chengdu 610106, China

Deadline for manuscript submissions:

**closed (29 February 2024)**

### Message from the Guest Editor

Dear Colleagues,

The recent advances in functional polymers are mainly focused on the applications of smart functional materials in the field of separation and purification processes. The developments of novel polymers with specifically designed properties to serve multiple purposes are greatly recommended. Therefore, the derivatization or modification from traditional polymers, such as cellulose, chitosan, silica gel, polypropylene glycol, rubbers, etc., to multifunctional smart materials are important research directions in the field of separation and purification fields. Especially important, functional polymers could form aqueous two-phase systems with another polymer, inorganic salt or ionic liquid, and could be applied for efficient separations of drugs, natural products, organic compounds, metal ions from complex mixtures.

This Special Issue is concerned with the applications of functional polymers in separation and purification field. Topics may include polymer derivatization, aqueous two-phase extraction, ionic liquid, separation and purification technology, bio-separation, etc. Both original research manuscripts and review manuscripts are welcome.





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 (General Chemistry)

## Contact Us

---

*Polymers* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/polymers  
polymers@mdpi.com  
X@Polymers\_MDPI