## Special Issue

## Advanced Study on Polymer-Based Hydrogels

### Message from the Guest Editor

This Special Issue of *Polymers* aims to highlight some of the most innovative findings in the construction, characterization, performance optimization, and functional application of advanced polymer hydrogel materials with considerations of their impact on human health, energy, and the sustainability of the environment. We invite the research community to contribute to this Special Issue by submitting comprehensive reviews or original research articles. Topics of interest include, but are not limited to, the following:

- Design, characterization method, and structure– activity relationship of hydrogel network structure and interaction;
- Hydrogels with special properties, such as antifreezing, anti-drying, self-healing, shape memory, etc.;
- Improvement in the performance and exploration of the functional application of hydrogels, including highperformance hydrogel materials, hydrogel biomedical materials, hydrogel flexible electronic and wearable materials, hydrogel new energy materials, hydrogel bionic devices, and hydrogel flexible robots.

#### **Guest Editor**

Dr. Yang Wang

College of Materials and Energy, South China Agricultural University, Guangzhou 510642, China

### Deadline for manuscript submissions

15 September 2025



## **Polymers**

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/214650

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers





# **Polymers**

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.7 Indexed in PubMed



## **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)

