

## Special Issue

# Functional Alginate-Based Materials

### Message from the Guest Editor

Alginate is a natural polysaccharide derived from brown seaweed, which has been used in a variety of applications in the biomedical, energy, and industrial fields, including in food, textile printing, and others. This Special Issue will highlight a new polymeric formulation consisting of alginate or chemically modified alginate for 1) diverse biomedical research, such as that into controllable drug delivery, enhanced tissue sealing, and therapy responses applicable for acute/chronic diseases and 2) industrial manufacturing (e.g., 3D/4D printing). The articles will focus on preparation methods and the unique physicochemical properties and mechanical stability of those alginate formulations (e.g., hydrogels, films, and particles) followed by multi-functionality for further designed applications.

### Guest Editor

Dr. Mikyung Shin

Department of Biomedical Engineering, Sungkyunkwan University (SKKU), Seobu-ro 2066, Jangan-gu, Suwon, Gyeonggi-do 16419, Republic of Korea

### Deadline for manuscript submissions

closed (31 October 2021)



## Polymers

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/si/55521](https://mdpi.com/si/55521)

*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 4.9.

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)