



## Polymer Surface and Interfacial Control for Biomedical Applications

Guest Editors:

**Prof. Dr. Inn-Kyu Kang**

Department of Polymer Science  
and Engineering, Kyungpook  
National University, Daegu 41566,  
Korea

**Prof. Dr. Ohhyeong Kwon**

Department of Polymer Science  
and Engineering, Kumoh  
National Institute of Technology,  
Gumi 39177, Korea

Deadline for manuscript  
submissions:

**closed (10 October 2022)**

### Message from the Guest Editors

Blood coagulation or protein adsorption often limits the general use of polymers as biomaterial. Although it is difficult to fully maintain antithrombotic or antifouling properties, bio-inert surfaces have been developed that can reduce blood coagulation or protein adsorption to some extent.

For decades, biomaterial research has been reported in the development of functional medical matters such as hemostatic sutures, implants, drug carriers, and engineered artificial tissues as medical treatments. Early research focused on bio-inert polymers to avoid inflammation, blood coagulation and protein adsorption with living tissue; however, subsequent studies are being conducted to actively create an environment similar to a living body by binding a biological component to a polymer surface.

This Special Issue will focus on the surface and interfacial chemistry of functional polymers for biomedical applications. Through this, it aims to provide information on convergence science, including polymers, to materials scientists, as well as front-line medical and dental researchers majoring in clinical medicine.





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, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

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