



## Current Trends and Advances in Stimuli-Responsive Polymers and Hydrogels

Guest Editors:

**Dr. G. Roshan Deen**

School of Medicine, Royal College of Surgeons in Ireland (RCSI), Medical University of Bahrain, Busaiteen, Bahrain

**Prof. Dr. Jan Skov Pedersen**

Department of Chemistry & Nanoscience Center, Aarhus University, Aarhus C, Denmark

Deadline for manuscript submissions:

**closed (31 July 2021)**

### Message from the Guest Editors

One of the basic processes of living organisms is response to stimuli. Using this fundamental, natural process as a basis, scientists have long been involved in the development of novel materials that respond to external stimuli.

Progress in medicine today heavily relies on the development of new systems to detect and treat pathological events during the early stages with minimal side effects. In this respect, stimuli-responsive systems are of particular interest, as response to external stimuli represents an important property in medical applications. A large variety of stimuli-responsive polymers has been developed to serve diagnostic and therapeutic processes, and this field continues to grow. Understanding the structure–property relationships of new stimuli-responsive materials is highly essential for rational design with targeted applications in medicine.

For this Special Issue, “Current Trends and Advances in Stimuli-Responsive Polymers and Hydrogels”, we will consider manuscripts that deal with synthesis methodologies, structure–property relationships, and biomedical applications of stimuli-responsive polymers.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Alexander Böker

Fraunhofer-Institut für  
Angewandte Polymerforschung,  
Lehrstuhl für Polymermaterialien  
und Polymertechnologie,  
Universität Potsdam,  
Geiselbergstraße 69, 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 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.

## 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