



## The Applications and Prospects of Chemosensing Polymers

Guest Editors:

**Dr. Alexandra Virginia Bounegru**

Department of Chemistry,  
Physics and Environment,  
Faculty of Sciences and  
Environment, “Dunărea de Jos”  
University of Galați, 47  
Domnească Street, 800008 Galați,  
Romania

**Prof. Dr. Constantin Apetrei**

Department of Chemistry,  
Physics and Environment,  
Faculty of Sciences and  
Environment, “Dunărea de Jos”  
University of Galați, 47  
Domnească Street, 800008 Galați,  
Romania

Deadline for manuscript  
submissions:

**closed (31 July 2023)**

### Message from the Guest Editors

In recent years, sensors and biosensors have been widely used due to their special properties, in many areas of research such as food, pharmaceuticals, and medicine. Polymers, such as polyaniline, polypyrrole, polythiophene, etc., are known for their biocompatibility, low polymerization potential, and high electrical conductivity. Moreover, polymers have an important role in improving enzyme immobilization strategies on the sensitive surface, preventing enzyme degradation, and protecting enzyme biocatalytic activity. Conductive polymers, together with nanomaterials, especially carbon-based nanomaterials and metal nanoparticles, represent important opportunities for increasing the performance of sensitive devices. In this Special Issue, we aim to collate theoretical considerations that explain the principles of synthesis, characterization, and applicability of polymers, as well as the performance of some sensors and biosensors developed with the help of polymers and their nanocomposites in different fields.





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