



Polymeric Biosensors: Fabrication, Characterization, and Applications

Guest Editors:

Prof. Dr. Naseem Abbas

Department of Mechanical Engineering, Korea University, Seoul, Republic of Korea

Dr. Haider Abbas

Department of Materials Science & Engineering, Hanyang University, Seoul 133-791, Republic of Korea

Dr. Mohsin Ali Badshah

Department of Chemical and Biomolecular Engineering, University of California, Irvine, CA, USA

Deadline for manuscript submissions:

closed (20 December 2023)

Message from the Guest Editors

The Special Issue is open to valuable contributions in the field of micro-/nano-structure-based polymeric gas and biosensors. We would like to invite researchers worldwide to submit their original research, short communication, concept, and review articles covering the theoretical and experimental aspects of micro-/nano-structure-based polymeric gas and biosensors, their sustainable manufacturing with advanced materials, methods, properties, and devices, and their applications. This Special Issue will cover, but is not limited to, the following aspects of micro-/nano-structure-based polymeric gas and biosensors:

- Microarray technology based sensors;
- MEMS/NEMS for flexible sensors;
- Surface modifications for improvement of sensor's performance;
- Healthcare monitoring and diagnosis applications of sensors;
- Stretchable/flexible sensors;
- Chemical functionalization for enhancement of biomolecules interactions
- Mechanical and tribological properties of biomaterials;
- Recent trends in the development and advancement of fabrication methods;
- Molecularly imprinted polymers;
- Characterization and applications;





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 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.

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](https://twitter.com/Polymers_MDPI)