

Special Issue

Advanced Polymers for Biosensor Applications

Message from the Guest Editors

Recent advances in polymer science have significantly expanded the potential of biosensor technologies. Polymers offer unique advantages such as tunable mechanical properties, biocompatibility, and functionalizability, making them ideal materials for next-generation biosensors. This Special Issue focuses on the development and integration of advanced polymeric materials in biosensor applications, particularly emphasizing their roles in enhancing sensitivity, selectivity, and long-term stability. We welcome contributions covering the synthesis, characterization, and application of functional polymers tailored for biosensing purposes. Special attention will be given to innovations in sensor fabrication technologies, including surface patterning, micro/nanostructuring, and flexible platform design, which are critical for wearable and implantable devices. This Special Issue aims to provide a comprehensive overview of polymer-based strategies that are driving forward the frontiers of biosensor development across biomedical, environmental, and point-of-care diagnostics. We look forward to receiving your contributions.

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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.

Editor-in-Chief

Prof. Dr. Alexander Böker

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