Special Issue

Advanced Biosensing Technologies in Medical Applications

Message from the Guest Editor

As the novel coronavirus (COVID-19) is continually raging around the world, rapid and precise screening has become one effective measure to impede its fast spread. This urgent need for controlling the epidemic raises the necessity of developing more powerful biosensing technologies. As a result, this Special Issue aims to present the most advanced biosensing technologies which can be used for various biological entities. In that sense, a broad range of topics in this area, from integration methods to novel microfluidic-based sensors in medical applications, will be covered. Your articles may inspire potential solutions to end the escalating pandemic. Most importantly, the dissemination of innovative knowledge through the academic platform can form a potent defense for humans and help to prepare well for the next devastating disease outbreak. The main topic is related but not limited to:

- Biosensors
- Microfluidic devices
- Biochips
- Diagnostics
- Lab-on-chip
- Bio-MEMS/Bio-NEMS
- Point-of-care
- Precision medicine
- Sensitivity/specificity/accuracy
- Rapid detection

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.6 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).

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