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Magnetic Biosensors and Their Applications

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Deadline for manuscript submissions:

closed (31 December 2023)

Message from the Guest Editors

Dear Colleagues,

Emerging technologies based on magnetic properties are becoming a fast-growing innovation that will significantly change the way humans live. Magnetic biosensors have many applications in medical diagnostics, environmental monitoring, and biotechnology. In medical diagnostics, magnetic biosensors are used to detect specific biomarkers for diseases such as cancer or diabetes. They can also be used to detect pathogens in food and water. In biotechnology, magnetic biosensors are used to detect specific proteins, enzymes or DNA sequences. Overall, magnetic biosensors are a powerful tool for the detection and characterization of biological molecules and have great potential to improve the accuracy and efficiency of medical diagnostics, environmental control and biotechnology research. In addition, it should be mentioned that a growing body of work on wireless magnetic devices is arising from the intrinsic properties of magnetism.

The goal of this Special Issue is to encourage scientists to publish as much detail as possible related to all aspects of magnetic biosensors, from their modelling, design, functionalization, characterization and applications.





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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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