Special Issue

Nanomechanical Biosensors in Diagnostics, Food, and Environmental Monitoring

Message from the Guest Editors

Nanomechanical biosensors have been investigated and developed for over two decades—not only because they are promising tools for directly detecting biomolecular interactions with great accuracy, but the detection principles, fabrication techniques, sensing materials, and readout system for developing nanomechanical biosensors are attractive topics for researchers. This Special Issue covers the discussion of sensor working principles, the types of sensor format, the fabrication methods, and any applications in chemical and biological analysis, as well as considerations for commercial purpose. Topics of interest include, but are not limited to the following:

- CMOS MEMS
- Nanomechanics
- Microcantilever
- BioMEMS
- Disposable sensors
- Portable sensing platform
- Environmental monitoring
- Food analysis
- Point-of-care testing
- Sensing chip array
- Medical diagnosis
- Sensing materials
- Signal enhancement
- Gas sensing
- Readout system

Guest Editors

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Deadline for manuscript submissions

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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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