

Special Issue

Plasmonic Based Biosensors

Message from the Guest Editors

Biosensors are playing increasingly important roles in medical diagnosis and in the fight against threats to human health, especially during the COVID-19 pandemic which is currently having substantial global economic and social impacts. Attributed to their high sensitivity, even at a single-molecule level, plasmonic techniques are promising to accelerate the development of effective biosensors, with the rational combination of nanomaterials, biotechniques, and instrumentation. This Special Issue focuses on the recent advances in plasmonic-based biosensors and their applications both in vitro and in vivo. We invite submissions of research which contribute to bioanalysis fields including, but not limited to, surface plasmon resonance sensors, localized surface plasmon resonance sensors, optical and electrical sensors, plasmonic spectroscopy for sensing, plasmonic imaging for sensing, new plasmonic materials and structures for sensing, as well as innovative biorecognition mechanisms and designs. Review articles and research articles related to the above contributions are welcome.

Guest Editors

Dr. Shuohui Cao

Prof. Dr. Yu Tao

Prof. Dr. Xiaoqing Liu

Dr. Lei Zhang

Deadline for manuscript submissions

closed (30 May 2024)



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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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