Special Issue

Plasmonic Biosensors for Point-of-Care (POC) Diagnostics

Message from the Guest Editors

Plasmonic-based sensors have shown great potential in the development of point-of-care devices following extensive work over the past two decades, due to their high sensitivity, easy fabrication and the possibility of integration with other methods. These sensors operate by functionalizing a metallic surface with a specific receptor which, upon binding to the biomolecule (to be sensed), results in variations in the detectable parameter, such as the angle, wavelength or intensity, that represents changes in the resonance condition observed. Hence, choosing the appropriate materials, structures, reading methodology and functionality for plasmonic sensor fabrication is of great importance to developing biosensors that are highly specific for their application in real-life situations. The present Special Issue, “Plasmonic Biosensors for Point-of-Care (POC) Diagnostics”, aims to assemble a diverse collection of works dealing with the development and integration of plasmonic transducers with advancements in modern technologies towards point-of-care testing devices.

Guest Editors

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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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