Special Issue

Advanced Surface Plasmon Resonance Sensor and Its Application

Message from the Guest Editors

The main topic of this Special Issue concerns a surface plasmon resonance (SPR) sensor for a specific chemical (or set of chemicals) and biomolecules analysis in different fields, which cause serious global concerns regarding healthcare, food quality, food safety and pollution. Additionally, localized SPR sensors and LSPR-enhanced Raman and fluoresecence sensors based on nanostructures can also be addressed. This Special Issue contains SPR sensors, which are capable of detecting changes in the resonant angle, wavelength and phase shift. Furthermore, novel SPR sensing techniques, e.g., surface plasmon resonance microscopy, which detects the discrete nature of molecules with a high sensitivity and high resolution, can be studied. In this Special Issue, innovative research on various new SPR sensors are welcome, which are achieved by improving their function with a combination of SPR technology and microelectronic technology, optical fiber technology, nanotechnology, electrochemistry, photoacoustic spectroscopy, gene recombination technology, bionic technology, etc.

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Deadline for manuscript submissions

closed (31 May 2023)

Biosensors

an Open Access Journal by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed

mdpi.com/si/120002

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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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