Special Issue

Optical Label-Free Sensors

Message from the Guest Editors

Optical Label-Free Sensors is a research field which has focused growing interest since first devices, such as Surface Plasmon Resonance (SPR) based biosensors, emerged as an alternative for biodetection. Since then, biofunctionalization techniques, micro and nano fabrication processes, microfluidic devices and have contributed to develop highly integrable biosensors, with really low values of limit of detection (both for refractive index sensing and biodetection), hardly reachable with other sensing techniques, and also requiring really small values of sample for all the detection process. In this special issue we will focus on recent advances on the optical biosensing field: New or improved platforms for optical sensing, optimized optical transducers, integrated devices, multiplexed detection units, biofunctionalization protocols for transducers and characterization of the performance of sensors are some examples of the sub topics covered in this special issue, no excluding other any other topic related

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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