

Special Issue

2D Material Based Plasmonic Biosensors

Message from the Guest Editor

Optical sensors are useful tools for detecting various target molecules with high sensitivity and selectivity even in complex sample matrix (e.g., saliva, serum, urine). As one of the leading optical sensing technologies, surface plasmon resonance sensors are well known for real time screening and monitoring analyte interactions. In recent years, the development of the fabrication and integration of nanostructures has boomed the design of the Surface Plasmon Resonance (SPR) sensors in a more effective and miniature way. Novel SPR sensors with different nanostructures—either as sensing substrate-like 2D materials (e.g., graphene) or signal amplification tags like gold nanoparticles—were reported. They have been demonstrated for applications including food and environment monitoring, clinical diagnostics/therapy, and homeland security protection. This Special Issue of *Sensors* will be dedicated to highlighting these emerging uses of SPR sensors, and presenting the latest technologies and methodologies developed in this interdisciplinary field of science.

Guest Editor

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Message from the Editor-in-Chief

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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