Special Issue

Surface Plasmon Sensors

Message from the Guest Editors

In recent years, basic and applied research on surface plasmon resonance (SPR) has been actively conducted. In particular, the SPR sensor is one of the devices that has been actively investigated in applied research of an optical platform using the propagation of surface plasmon polaritons. The utilization of nanostructures has enabled the development of more sensitive detection formats adapted to multiplexed configurations. Specifically, the unique optical and electronic properties of nanomaterials have permitted the advancement of localized surface plasmon resonance (LSPR) and surface-enhanced raman scattering (SERS) applications. Likewise, the fabrication of nanopatterned structures through lithographic patterning has provided high spatial resolution surface structures while improving the sensitivity of the systems. In this Special Issue, we would like to compile the latest research results on the theory and experiments regarding the measurement principle, detection formats, performances, and applications for surface plasmon sensors, and to discuss the current status and future prospects of surface plasmon sensor performance. For more details, please visit here.

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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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