Special Issue

Nanophotonic Sensors

Message from the Guest Editors

The development of nanophotonic sensors capable of changing their optical properties as a result of recognition and detection of environmental pollutants, biologically relevant analytes, chemical substances, as well as detection of externally applied fields (i.e., electric, magnetic, electromagnetic fields) and temperature gradients have attracted considerable interest in recent years. Among various sensing techniques, nanophotonic sensors using a variation of the properties of nanophotonic structures are receiving increasing attention because of their capability for multiplexing, competitive sensitivity, versatility in obtaining diverse information in situ, and fabrication compatible with current industrial approaches. This Special Issue aims at presenting reports on recent developments in the development and applications of nanophotonic sensors.

Keywords

- nanophotonics;
- nanophotonic structures for sensing;
- nanoparticle-based sensors;
- waveguide-based nanophotonic sensors;
- photonic crystal sensors;
- holographic sensors;
- graphene nanophotonic sensors;
- nanoplasmonic sensing and detection

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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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