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Nanophotonic Sensors

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Message from the Guest Editors

Dear Colleagues,

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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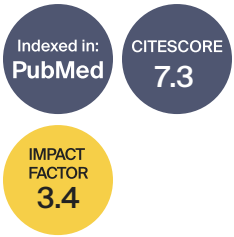

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Message from the Editor-in-Chief

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