Special Issue

Optical Sensors Based on Plasmonic Gratings

Message from the Guest Editor

Plasmonic gratings play a crucial role for their application in optical sensors. Surface plasmon resonance (SPR) and localized SPR (LSPR) sensors have gained much popularity and are still flourishing due to advancements in nanofabrication technology. This Special Issue aims to be an opportunity to collect experimental and theoretical research works in these areas, giving space to the design, preparation, fabrication, characterization, simulations, and applications of these innovative and promising optical materials. We invite you to submit a manuscript for this Special Issue; full papers, communications, and reviews are all welcome. The focuses of this Special Issue include (but are not limited to) the following:

- Photonic or plasmonic nanomaterials for sensing and biosensing;
- Design of surface plasmon resonance (SPR) sensors;
- Fabrication of SPR based diffraction grating (nanofabrication technology);
- Preparation methods and applications for photonic or plasmonic-based sensors;
- Theoretical simulations of photonic and plasmonic nanostructures for sensing;
- Other hybrid materials in plasmonic sensors, for example, transition metal nitrides (TiN...).

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2024)

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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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