

Special Issue

Advanced Plasmonic Nanosensors

Message from the Guest Editor

Plasmonic sensing is an important multidisciplinary research field that has led to many important applications in fields such as chemistry, biology, materials, renewable energy, and information sciences and technologies. In recent years, with the advancements in novel materials, such as two-dimensional materials, the performance of plasmonic sensors has improved significantly, and its application field has been expanded. With the development of advanced fabrication techniques, such as self-assembly, 3D printing, and high-precision ion beam lithography, plasmonic nanostructures can be tailored and fabricated with exquisite architectures, enabling the emergence of highly responsive plasmonic resonance. With the progress of advanced machine learning algorithms, the spectral information obtained by plasma sensors can be processed and analyzed with high efficiency, which enables accurate detection of diseases such as cancers and virus infections. This Special Issue focuses on fundamental and applied research of plasmonic nanosensors with novel materials/structures, fabrications processes, and analysis methods. **Keywords:** plasmonics sensor; nanoplasmonics sensor; biosensors

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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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