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Recent Advances in Optical Waveguide Sensors 2021

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Message from the Guest Editor

Dear Colleagues,

Optical waveguides have been applied in various photonic applications, including sensors, because of their integrated advantages, such as robustness and compactness, which have expanded the possibilities regarding sensing capability. Optical waveguides have been microfabricated using semiconductor and organic materials. For example, the sensing materials both on and in optical waveguides are well-known in their use as optical, chemical, and biochemical sensors. The porous ring and slot structure in an optical waveguide has the advantage of accepting various kinds of materials which can improve the sensing capability.

This Special Issue aims to present novel and innovative application of sensors and devices based on optical waveguides. For this Special Issue, we are soliciting papers addressing the wide range of applications of optical waveguide sensors—both review articles and original research papers related to the application of optical waveguide sensors and devices are welcome.

Prof. Dr. Yasufumi Enami
Guest Editor



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Special Issue



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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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