

Special Issue

Interferometric Fiber Sensors

Message from the Guest Editors

Interferometric fiber sensors have been applied in various photonic applications, such as the sensing of temperature, strain, pressure, and refractive index. It is obvious that interferometric fiber-optic sensors have great potential in practical applications such as the real-time deformation monitoring of aircrafts, ships, bridges, and constructions. The use of sensing materials both on and in optical fibers is well-established for optical, chemical, and biochemical sensors. The porous and slot structure of optical fibers has the advantage of accepting various kinds of materials, which improves the sensing capabilities. This Special Issue intends to publish papers on topics related to interferometric fiber sensors, and to address the wide range of applications of interferometric fiber sensors. Both review articles and original research papers related to the application of interferometric fiber sensors are solicited.

Guest Editors

Prof. Dr. Xiyuan Chen

Dr. Carlos Marques

Dr. Chong Shen

Deadline for manuscript submissions

closed (15 September 2023)



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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.

Editor-in-Chief

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