Special Issue

Developments and Applications of Optical Fiber Sensors

Message from the Guest Editor

Optical fiber sensors have emerged as a promising technology for a wide range of applications, including civil structural health monitoring, environmental sensing, biomedical diagnostics, aerospace and defense monitoring, industrial process control, etc. The ability of optical fibers to transmit light signals with minimal loss, coupled with their high sensitivity to external stimuli, make them ideal candidates for sensing applications. One of the key themes of this Special Issue is the development of optical fiber sensors for real-world applications. Another important aspect of this Special Issue is the exploration of new sensing schemes based on optical fibers. It will cover topics such as distributed sensing, micro/nano-structured fiber sensors, multiplexing, and hybrid sensing systems. Overall, this Special Issue aims to provides a comprehensive overview of the latest research and developments in optical fiber sensors. It will be of interest to researchers, engineers, and practitioners working in the field of optical fiber sensing, as well as those interested in the broader applications of sensing technology.

Guest Editor

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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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