Special Issue

New Challenges in Fiber Laser Sensing

Message from the Guest Editors

Fiber lasers have unique properties such as a simple structure, flexible wavelength tunability, high efficiency and high stability, and have become indispensable tools in various fields such as industrial manufacturing, national defense security, holography and biological science. In particular, fiber lasers provide a new platform for optical fiber sensing with high sensitivity, high resolution, long distances, etc. In optical fiber sensing systems, fiber lasers can be employed as light sources, amplification pump sources and also sensors. These types of sensing systems have potential applications in structural health monitoring, geophysical exploration and biomedicine. Therefore, research in the field of fiber laser sensing is crucial. Advancement in this field can be achieved by improving structure design, testing new gain media and investigating new sensing and detection methods. In this Special Issue, we invite you to contribute high-quality research on advancements and developments in the field of new-generation fiber laser sensing technology. Original research articles and comprehensive reviews on topics related to fiber laser sensing can be submitted to this Special Issue.

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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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