

Special Issue

New Technology and Applications of Fiber Bragg Grating Sensors

Message from the Guest Editor

Optical fiber Bragg grating (FBG) sensors, beyond their applications in communications, have become hugely successful for sensing applications in the oil and gas industry, civil engineering, and aircraft industry.

Recently, new FBG sensing technologies have been expanding their applications to new scenarios including medical instruments, large scientific facilities, space exploration, robotics, etc. In this Special Issue, we warmly invite you to submit manuscripts relevant to new technology and applications of FBG sensors. Topics include but are not limited to the following:

- New grating structure;
- FBGs in polymer fibers, single-crystal fibers, multicore fibers and other special fibers;
- Femtosecond laser direct writing of FBGs;
- Applications of FBG sensors in harsh environments;
- Grating sensors for physical and biochemical measurements;
- FBG sensor demodulation method;
- Field test of FBG sensors;
- New application scenarios of FBG sensors.

Guest Editor

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Deadline for manuscript submissions

closed (25 October 2024)



Sensors

an Open Access Journal
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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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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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