

Special Issue

Recent Advances in Fiber Bragg Grating Sensing-2nd Edition

Message from the Guest Editors

Fiber Bragg gratings (FBGs) have been used in various applications for more than 40 years. They are reliable sensing elements and fiber laser components, with sensing characteristics that can be adjusted according to the host fiber material. This Special Issue aims to cover a broad spectrum of FBG sensing technology in the form of regular and review papers. Topics of interest include, but are not limited to, the following:

- Grating structures, tilted Bragg gratings, long-period gratings and chirped gratings;
- FBGs in specialty optical fibers (polymer fibers, silica fibers, sapphire fibers etc.);
- Advanced FBG-based mechanical and physical sensors;
- Advanced FBG-based biomedical, chemical and environmental sensors;
- Performance of FBG systems in real environments;
- Demodulation algorithm and signal processing of complexed FBG sensors;
- Performance of FBGs in harsh environments;
- Acoustic sensors;
- FBG applications in oil and gas industry, robotics, structural health monitoring, aerospace missions, civil structure, smart textiles and other areas.

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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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