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Long Period Fiber Grating Based Sensors and Components

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Deadline for manuscript submissions:
closed (31 March 2020)

Message from the Guest Editors

This Special Issue will focus on the latest developments and trends in the long period fiber grating technology, covering the recent improvements in the related theory, design, fabrication and application/validation. We warmly invite you to participate by submitting original research papers, communications and review articles on LPFG-based sensor technology, in order to provide a useful insight into the present status and future outlook in this area. Topics of interest include, but are not limited to:

- New phenomena and theories
- New design approaches
- LPFG modeling and simulation
- LPFG fabrication techniques (UV, CO_2, femtosecond, electric arc discharge, microbending, etc.)
- Inscription of LPFGs in specialty optical fibers (silica, plastic, microstructured, biocompatible, microfibers, polarization-maintaining, multi-core, multi-mode, few-mode, rare-earth doped, etc.)
- New types of gratings and grating-based structures (chirped, tilted, phase-shifted, etched, cascaded, interferometers, etc.)
- LPFG-based filters and components
- LPFG-based physical and mechanical sensors
- LPFG-based chemical and biological sensors
- LPFG-based multi-parameter sensors

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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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