

Special Issue on
Nanomaterial and Structural Optical Fiber Sensor

CALL FOR PAPERS

Optical fiber sensors have attracted a great interest because of their excellent characteristics of antielectromagnetic, light weight, flexible, and remote sensing. Especially in recent years, with the emergence of a variety of novel nanomaterials and the great progress of micro/nanoprocessing technology, the nanomaterials-functional and original-structural micro/nano-optical fiber sensors have performed the properties of high sensitivity, high selectivity, and being portable, implantable, stable, inexpensive, and miniaturizable. These devices could be used and promote the revolutionary changes in many fields, such as robotics, intelligent building, intelligent industry, biomedicine, and military.

The purpose of this special issue is to publish high-quality research articles as well as reviews that seek to address recent development on the preparation, characterization, and application of optical fiber sensors based on novel nanomaterials and structures, as well as the relevant prospect on opportunities and challenges.

Potential topics include but are not limited to the following:

- ▶ Preparation, development, and characterization of optical fiber sensors
- ▶ Physical, chemical, and biological sensors based on optical fiber
- ▶ Experimental/simulation on the sensing performance of novel optical fiber devices
- ▶ Novel applications of optical fiber sensors
- ▶ Micro/nanofiber sensors
- ▶ Micro/nanostructural designs in optical fiber for sensing
- ▶ Performance improvement of optical fiber sensors based on nanomaterials
- ▶ Package, integration, and optimization of optical fiber sensor
- ▶ Recent advances in optical fiber sensors based on nanomaterials or micro/nanoprocessing technologies
- ▶ Design, fabrication, and testing of specialty optical fiber sensors in harsh environments

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