

## Special Issue

# Fiber Grating Sensors: Design, Fabrication, and Application

### Message from the Guest Editor

Over the past forty years, fiber gratings have been intensively investigated and widely used in sensing, fiber laser, and optical communication. For the application of sensing, fiber gratings provide unique features, such as super miniature, EMI immunity, high sensitivity, fast response, and multiplexing capability. The present Special Issue addresses the innovative design, fabrication, and application of fiber gratings in the field of sensing. We invite contributions to this Special Issue of *Sensors* in relation to the following topics, which include, but are not limited to:

- Novel fiber grating designs and fabrication;
- Mechanical and electromagnetic field fiber grating sensors ;
- Chemical and biological fiber grating sensors;
- Distributed and multi-parameter fiber grating sensors;
- Structural health monitoring systems based on fiber grating sensors;
- Microstructured optical fiber grating sensors;
- Fiber laser sensors;
- Novel fiber grating sensors for harsh environments;
- Multiplexed and networked fiber grating sensors;
- Fiber sensor interrogation and system integration.

---

### Guest Editor

Dr. Ping Lu

National Research Council Canada, 100 Sussex Drive, Ottawa, ON K1A 0R6, Canada

---

### Deadline for manuscript submissions

closed (31 March 2023)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 7.3  
Indexed in PubMed



[mdpi.com/si/116846](https://mdpi.com/si/116846)

*Sensors*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 7.3  
Indexed in PubMed



[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)



## About the Journal

### 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

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

#### Journal Rank:

JCR - Q2 (Chemistry, Analytical) / CiteScore - Q1 (Instrumentation)