



sensors



an Open Access Journal by MDPI

Fiber Grating Sensors: Design, Fabrication, and Application

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)

Message from the Guest Editor

Dear Colleagues,

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.

The Guest Editors 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.



mdpi.com/si/116846

Dr. Ping Lu
Guest Editor

Special Issue



sensors



an Open Access Journal by MDPI

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

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.

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)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)