



Optical Fibers for Distributed Sensors

Guest Editors:

Dr. Peter Dragic

Department of Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, Urbana, IL 61801, USA

Dr. John Ballato

The Center for Optical Materials Science and Engineering Technologies (COMSET) and the Department of Materials Science and Engineering, Clemson University, Clemson, SC, USA

Deadline for manuscript submissions:

closed (31 December 2019)

Message from the Guest Editors

We invite manuscripts, both reviews and regular submissions, for this forthcoming Special Issue, entitled “Optical Fibers for Distributed Sensors,” in all aspects pertinent to the optical fiber utilized in these systems:

- Optical fiber waveguide design and development
- Single mode, multimode, multicore, and microstructured fibers
- Novel materials, including glass, semiconductor, crystalline, and organic
- Multimaterial, composite, and “smart” fibers
- Raman, Rayleigh, and Brillouin sensing
- Active fiber technologies, such as rare earth, semiconductor, or nanoparticle doped fibers
- Fiber coating technology
- Designer response to thermomechanical environment, including athermal or atensic fiber sensors
- Fibers for harsh environments
- Cost-reducing and disruptive optical fiber technologies
- Novel applications and systems





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, Grosspeteranlage 5
4052 Basel, Switzerland

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

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