Special Issue

Optical Micro-Resonators for Sensing

Message from the Guest Editor

Optical resonators are firmly settled now in the frontier of research into ever more sensitive transducers. They can be used to convert changes in properties such as temperature, pressure, strain, refractive index, or the presence of specific molecules into a quantifiable optical signal. The enhanced interaction of the light with the medium to be sensed in the resonator, results in an increase of the sensitivity, which has led to the demonstration of ever decreasing detection limits. The goal of this Special Issue is to bring together recent developments in the field of sensors based on optical resonators. Our aim is to collect both comprehensive reviews of the latest research and exciting new developments, which will be of interest to a broad audience. **Keywords:** Whispering gallery modes; Microring; Microsphere; Microdisk; Microbottle; Photonic crystal cavity

Guest Editor

Dr. Pablo Bianucci
Department of Physics, Concordia University, 7141 Sherbrooke W. Montreal, H4B 1R6 QC, Canada

Deadline for manuscript submissions

closed (31 August 2020)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/24653

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/journal/sensors

MDPI

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 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)