

## Special Issue

# Optical Sensors Using Microstructured and Photonics Crystal Fibers

### Message from the Guest Editors

This Special Issue aims to highlight advances in the design, modelling, development and testing of fiber sensors based on microstructured and Photonic Crystal Fibers (PCFs). Optical fiber sensors had always high demand in both industrial, as well as domestic, applications because of their sensitivity, compact size, lightweight, immunity to electromagnetic fields, possibility to use in high voltages applications and to monitor huge areas. The usage of microstructured fibers and PCFs, because of their air hole arrangement, has further increased the research fields and new types of sensors that use the fiber as sample microchannel have been proposed, for example for biosensing, gas sensing and pollution sensing applications. The focus of this Special Issue will be on novel applications of modern fiber sensors, from the single probe to the topology of more complicated sensing systems and also on the fabrication level underlying the development of speciality fibers for particular applications. We hope that this issue will provide a useful reference and that it will encourage further research on novel technologies and sensing devices.

### Guest Editors

Prof. Dr. Stefano Selleri

Department of Engineering and Architecture, Università degli Studi di Parma, 43121 Parma, Italy

Dr. Tarun Kumar Gangopadhyay

CSIR-Central Glass & Ceramic Research Institute, India

### Deadline for manuscript submissions

closed (31 March 2019)



## Sensors

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

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### 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.

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### 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

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