

Special Issue

Optical Sensing Based on Microscale Devices

Message from the Guest Editors

We are very pleased to introduce this Special Issue on “Optical Sensing Based on Microscale Devices”. Optical sensing outperforms electrical and chemical sensing in terms of its high accuracy, long-term stability, no interaction with the analyte, and high performance under harsh conditions. Optical sensors based on microscale devices are in the form of micro-optics, which are optical components and systems that are a few micrometers to a few millimeters in size. These include, but are not limited to, tunable micro lenses, micron-core and photonic crystal optical fibers, silicon photonics, micro mirrors and optofluidics. Together with the integration of movable structures within a chip, this leads to the photonic MEMS/NEMS, adding more degrees of freedom and functionalities to sensing systems. [...] For further information, please visit http://www.mdpi.com/journal/sensors/special_issues/Optical_Sensing_Based_Microscale_Devices.

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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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