



Optofluidic Transducers: Microfluidic Devices Incorporating Optical/Photonic Sensing Capabilities

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Deadline for manuscript
submissions:

closed (31 May 2022)

Message from the Guest Editors

Optofluidic devices are of high scientific and industrial interest in chemistry, biology, material science, pharmacy, or medicine. In recent years, they have experienced a strong development because of impressive achievements of the synergistic combination of photonics and micro/nanofluidics. The key elements of these devices are their transducers that transform the slightest changes in a media in a quantifiable optical signal.

In this context, a large variety of optofluidic transducers have emerged, covering topics such as bio-sensing, water analysis/environmental monitoring, liquid agrofood safety, catalytic reactions, microparticle sorting, medical diagnostic technologies, drug discovery, or micro-imaging. Moreover, integration of these devices in larger electro-optic platforms represents a highly valuable improvement towards advanced applications, such as those based on surface plasmon resonances, already in the market.

In this Special Issue, we invite the scientific community working in this rapidly evolving field to publish recent research and/or review papers on these optofluidic transducers.





Editor-in-Chief

Message from the Editor-in-Chief

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