

Special Issue

New Strategies and Current Challenges for Label-Free Biosensors Improvement

Message from the Guest Editors

Current events have shown the necessity to perform a fast, efficient, and straightforward detection of low concentrations of organic elements. In this period of the global COVID-19 pandemic, most clinical testing occurs in large, centralized laboratories to concentrate operations in a single location for cost savings and standardized results. Biosensors are once again highlighted as the technologies able to respond quickly to a need for simple and reliable detection requiring no specific knowledge, low reagent, and massive production to address the important societal challenge. This Special Issue solicits innovative contributions from both industry and academia in biosensing areas covered by a wide range of devices, based on optical, acoustical, chemical, thermal, new materials and electrical parameters but not only. New strategies in micropatterning functionalization or biosensor design are also welcomed. Keywords:

- Active transport
- Acoustic
- Plasmonics
- Nanobiosensing
- Photonic biosensors
- Raman spectroscopy
- Plasmonics materials
- Innovative biosensors design
- Nanoparticle
- Micropatterning functionalization

Guest Editors

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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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