

Special Issue

Nanophotonic Biosensors: Challenges and Development

Message from the Guest Editor

In the last two decades, optical biosensors have been the subject of intense research because of their capability for miniaturization and multiplexing. In addition, they can quantitatively detect extremely low concentrations of analytes in real time and without the need for labeling tags. Additionally, optical biosensors fabricated with polymers or silicon-based technologies are candidates for point-of-care solutions in which pre-functionalized, disposable chips are used in conjunction with a readout system to provide diagnostics that would otherwise require specialized laboratories and trained personnel. Moreover, the fabrication of these devices, by using processes compatible with CMOS standard processes, open the door toward low-cost and mass production. This Special Issue will provide a forum for the latest research activities in the field of nanophotonic biosensors.

- Novel photonic biosensor designs
- Label-free optical sensing
- New development in optical for sensing applications
- Silicon photonics for biosensing
- Integration of photonic biosensors
- Microfluidic devices for optical sensing
- Polymer-based optical sensors

Guest Editor

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Chemosensors continues to grow as a forum for all manners of sensing that encompass chemistry. *Chemosensors* is published in open access format – all articles and content are released on the internet immediately following acceptance, thus allowing unlimited access to the content as soon as it is published. We would be happy to have you join our growing list of authors.

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