

Special Issue

Nanotechnology for On-Chip Sensing

Message from the Guest Editors

The aim of this Special Issue is to exhibit the progress in on-chip sensing component developments using nanotechnologies and get insight into the problems already solved, the new findings, and current and future challenges. Works showing a critical view on results assessment, and techniques such as tools for improving key parameters, limits of detection, and efficiency are encouraged. This Special Issue will address challenges in the fabrication of components based on 2D, 1D, and 0D materials and their properties and applications in sensing. Research topics include:

- MEMS sensors with sensing nanocomponents
- NEMS sensors
- Nanofabricated sensors on unconventional substrates
- Nanostructures for sensing in gas or liquid media
- Nanostructures for on-chip biosensors
- Nanostructures based sensing arrays
- Nanotechnology based chemical sensing receptors
- Nanodots, nanopores, nanorods, nanotubes, nanowires, and nanofibers in sensing
- Graphene, silicene, germanene, and other 2D materials-based sensors
- Nanotechnology for on-chip optical sensing

Guest Editors

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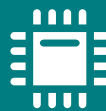
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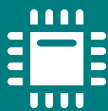


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Message from the Editor-in-Chief

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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