Special Issue

Ultra-Sensitive Chem/Bio Sensors

Message from the Guest Editor

Researchers are constantly developing new sensing technologies, aiming to obtain high-performance optical, physical, chemical, and biological sensors with ultra-sensitivity and selectivity. This has led to various detection techniques, including electrochemical and optical methods, field-effect transistors, lateral flow assay, etc. This Special Issue welcomes papers describing attractive and creative approaches for ultra-sensitive sensors. Topics of interest include: i) Sensing transistors, ii) Chemical and biological receptors, iii) Engineering of interfacial chemistry, and iv) Design of sensing platforms. In addition, smart sensing systems such as IoT (internet of things) and wireless systems are of interest because they enable to enhance devices' sensing properties. Lastly, among industrial approaches, articles reporting on applications using ultra-sensitive sensors, such as healthcare monitoring, hazardous monitoring, and point-of-care tests, are also welcomed.

- Chemical sensors
- Biosensors
- Interfacing chemistry
- Enhanced sensing system (protocols)
- Advanced sensing platforms
- Point-of-care tests
- Electronics

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2021)

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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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