Special Issue

Nanobiosensors for Detection

Message from the Guest Editor

Biosensors are useful in numerous applications in medicine, including biomolecular sensing, monitoring cellular interactions with their microenvironment, and in assessing free radicals such as reactive oxygen species (ROS). Detection of antioxidants, free radicals, and particularly ROS have recently attracted much attention because of their diverse physiological and pathological effects. Such diverse, yet contrasting functions of ROS and superoxide as the primary member of the group in particular, make accurate determination of these biospecies an important and challenging task. We are happy to announce the Special Issue of "Nanobiosensors to detect Reactive Oxygen Species". It is an effort to include the most relevant work on state-of-the-art ROS biosensing using nanostructures such as nanoporous films, nanowires, etc., highlighting not only improved sensitivities, but also a higher level of specificity that allows real-time detection and quantification of ROS and RNS in both intracellular and extracellular milieus.

Guest Editor

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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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