Special Issue

Nanosensors for Chemical and Biological Detection

Message from the Guest Editor

The sensing tip is the finest component of nanosensors and is sensitive to any kind of responses to biochemical reactions—electric, electronic, magnetic, optical responses, etc. There may be various biocompatible materials and various designs and geometries depending on various responses. The sensing tip also takes a central role in converting detected biochemical reaction to a visible (macroscopic) signal. The detected responses are collected without involving noise or nonspecific reactions so that we can detect only specific biochemical reactions. Nanosensors are applicable to sensors of toxic gases, (biological) viruses, hazardous molecules, antigen–antibody reactions, and various biochemical reactions. This Special Issue aims to cover all various aspects of the nanosensor and its related scientific and technical topics, including (but not limited to) functions, materials, geometries, any detailed designs of sensing tips, the conversion method to visible signals, specific biochemical reactions to be sensed, nonspecific noise, and so forth.

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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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