Special Issue

Functional Nanomaterials for Biosensing

Message from the Guest Editor

Biosensors are a valuable tool for chemical and biological molecule detection, extensively used in environmental monitoring, food safety, biochemical analysis, and disease diagnosis. In recent decades, the introduction of nanomaterials with outstanding physical and chemical properties has promoted the rapid development of biosensors such as carbon nanotubes, noble metallic nanoparticles, metal oxides, graphene, and derivatives. This Special Issue welcomes original research works and high-quality reviews which focus on the following topics related to nanomaterials-based biosensors coupled with different detection techniques for biochemical analysis and disease diagnosis:

- Novel nanomaterials developed to construct high-performance biosensors;
- The performance of biosensors improved by new strategies and new analytical methods;
- Detection of environmental pollutions;
- Detection of biomarkers, including small biomolecules, nucleic acids, proteins, cells;
- Detection of bacterial, viruses;
- Detection of antibiotic, drug residue;
- Detection of other biomolecules;
- Development of devices for biosensing.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

Editor-in-Chief

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