Special Issue

Advances in Quantum Dots Biosensing

Message from the Guest Editor

The progress in biological research and clinical practice is heavily dependent on sensitive and selective biosensing of interesting biomolecules. Due to their unique and superior optical, electronic properties such as high brightness, good photostability, broad absorption spectrum, narrow and size-tunable emission spectrum, large Stokes shift, versatile surface modification, and distinctive photoelectrochemical activity, quantum dots have emerged as powerful building blocks for the development of efficient biosensors with high sensitivity, good selectively, rapidity, and simplicity. This Special Issue on “Advances in Quantum Dot Biosensing” aims to present the most advanced biosensing technologies using quantum dots as the sensing elements and to demonstrate their applications in the quantitative detection of diverse biomolecules such as DNAs, RNAs, proteins, enzymes, and live cells.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2023)

Biosensors

an Open Access Journal by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed

mdpi.com/si/95660

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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.

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