

Special Issue

Nanomaterial-Based Biosensors for Point-of-Care Testing

Message from the Guest Editors

We are pleased to invite contributions to this Special Issue concerning “Nanomaterial-Based Biosensors for Point-of-Care Testing”. In healthcare diagnostics, we have seen growing demand for rapid, precise, and easily accessible testing methods. As a result, nanomaterial-based biosensors have emerged as a promising technology. Developing nanomaterial-based biosensors can revolutionize healthcare diagnostics by enabling earlier disease detection, facilitating more targeted treatments, and reducing healthcare costs. The integration of nanomaterials allows for the miniaturization and portability of biosensor devices, making them well suited to point-of-care settings. This Special Issue will explore the transformative impact of various nanomaterials, including gold and silver nanoparticles, quantum dots, and carbon nanomaterials, on point-of-care testing (POCT). This Special Issue will also explore various readout modalities that complement nanomaterial-based biosensors, including fluorescence, surface plasmon resonance, surface-enhanced Raman scattering, and electrochemical, piezoelectric, magnetic, thermal, and colorimetric detection.

Guest Editors

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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.

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