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Advances in Biosensors for Health-Care and Diagnostics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Biosensors have changed our world in incalculable ways. Various micro- and nano-scale sensors have been developed, demonstrating potential for unprecedented growth in their deployment in next-generation healthcare diagnostics, environmental monitoring, energy and embedded wireless systems, as well as robotics and space applications. With much lower usage of reagents required for calibration, they have fast response time and ability to measure non-polar molecules that cannot be estimated by other conventional devices. Additionally, the biosensor material must be biocompatible and resistant to a wide range of biochemical parameters such as pH, temperature, and other environmental conditions, and so may not require specific storage conditions. This Special Issue cordially invites researchers to contribute original and innovative research outcomes on engineering and theory associated with the design, modeling, fabrication, and application of biosensors being used pervasively in the medical health care field to diagnose infectious diseases, particularly for future clinical applications.

Prof. Dr. Shanthy Sundaram

Guest Editor



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Special Issue



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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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