Special Issue

Advances in Biosensor Technologies for Clinical Applications

Message from the Guest Editors

A Rapid diagnosis and timely treatment are key determinants of improved clinical outcomes and public health safety. Traditional in vitro diagnosis of disease requires centralized laboratories and bulky equipment, which is expensive, time consuming and can cause severe discomfort to patients. Biomarkers are key indicators for the diagnosis and treatment of many diseases. Compared with healthy individuals, specific biomarkers of disease patients will show significant concentration deviations. In recent years, the development of biosensor-based biomarker detection technology has provided the possibility for the timely diagnosis of diseases. It is superior to traditional detection methods in timeliness, accuracy and cost, and has the potential for extensive development. In particular, the current pandemic of COVID-19 has greatly disrupted the world's health system, enhancing the importance of telemedicine systems and increasing the need for new biosensing and treatment technologies.

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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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