Special Issue

Microneedle Diagnostics

Message from the Guest Editors

Microneedles are microdevices designed to penetrate biological membranes such as the skin and the cornea. They are an emerging technology with applications in drug delivery and medical diagnostics. Various microneedle diagnostic devices have been developed for blood glucose monitoring and the detection of other medical conditions, such as skin cancer and infections. Such devices boast the ability to sample or analyse interstitial fluids or capillary blood in a minimally invasive manner. As such, they have been considered potential replacements for invasive diagnostic procedures. With the renewed interest in efficient diagnostic technologies instigated by recent events, including the coronavirus pandemic, it is timely to now examine the state of the art and the future directions of microneedle diagnostics. In this special issue, we welcome contributions of reviews and original articles offering insights on the latest challenges and advances in microneedle diagnostic technology.

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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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