

High-Efficiency Surface-Enhanced Raman Scattering Biosensing

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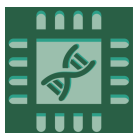
Message from the Guest Editors

The development of biosensors with high sensitivity and selectively is increasingly becoming crucial in medical and clinical research for detecting extremely low concentrations of low-molecular-weight molecules relevant to diseases such as cancer and infectious diseases. To radically improve early diagnosis, the progression of the disease and the evaluation of the efficacy of drug therapy, it is necessary to have biosensors characterized by a high level of sensitivity, specificity and accuracy for the recognition of both nucleic acids and proteins. A strong contribution in this context is represented by the development of high-efficiency surface-enhanced Raman scattering (SERS) biosensors. This Special Issue aims to present the most recent studies on the progress achieved in the development, design, modeling, implementation and characterization of high-efficiency SERS biosensors.

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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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