Special Issue

Surface Enhanced Raman Spectroscopy Based Sensors and Biosensors

Message from the Guest Editors

Surface-enhanced Raman scattering/spectroscopy (SERS) has attracted increasing interest in biotechnological applications, especially concerning those related to biorecognition and bioimaging. Indeed, thanks to a multidisciplinary approach that includes physics, chemistry, materials science, biomedicine, and electronics, this technique is more and more applied for the identification and detection of chemicals and biomolecules, or in biomedical imaging (e.g., guided surgery). Optical biosensing platforms based on SERS offer great advantages over conventional laboratory analytical methods because they allow fast and direct real-time and often label-free detection of many biological molecules, showing high specificity and sensitivity. This Special Issue will introduce recent progress in the field of SERS-based biosensing platforms and SERS methods for biodetection, including fabrication of novel nanostructures and devices, development of innovative biorecognition systems, and their applications in bioanalysis.

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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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