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Surface-Enhanced Raman Spectroscopy for Bioanalytics

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Message from the Guest Editors

Bioanalytical spectroscopic techniques such as SERS have recently gained great development due to their capability for the analysis of biological samples, ranging from biomolecules to in vitro, ex vivo and in vivo systems. SERS is an effective analytical technique with excellent potential in bioanalysis and diagnosis. Being characterized by high sensitivity, specificity and multiplexing ability, the method can be used for a wide range of applications, from the rapid detection of specific analytes to the monitoring of the dynamic, complex structural changes of biomolecules within a biological system. Hence, through the use of SERS, new insights in medical diagnostics can be revealed for a better understanding of life processes and of the molecular mechanisms of various diseases.

The aim of SI is to highlight recent advances for bioanalytical SERS applied to biomolecules, pathogens, biofluids, detection of living cells, drug delivery, development of novel SERS substrates and Raman labels, analytical biosensing and SERS-based point-of-care technology. A comprehensive overview of the experimental design, data analysis and key challenges in bioanalytical SERS can be also considered.

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