Special Issue

Surface-Enhanced Raman Scattering in Biosensing Applications

Message from the Guest Editors

The main features of surface-enhanced Raman spectroscopy (SERS) are ultra-high sensitivity, molecular specificity, short measuring time, low cost and wide range applications. In the last few decades, the development of high-quality and affordable SERS substrates has been accompanied by an increase in the number of applications and a similar growth trend is expected until 2030 and beyond. SERS currently finds the largest number of applications in medical research and pharmacy. However, areas of application for which accelerated development is expected are food safety and environmental protection. This Special Issue aims to provide an overview of research that includes SERS analysis of biomolecules examined in the aforementioned research areas and wider. Biomolecules can be investigated on standard or innovative SERS substrates following direct or indirect approach methods. Papers including a portable Raman spectrometer system for accurate on-site diagnostics of bio-analytes are encouraged.

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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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