Special Issue

Surface-Enhanced Raman Scattering Biosensors—2nd Edition

Message from the Guest Editor

Like every up-to-date analytical technique with high potential for clinical application, surface-enhanced Raman scattering (SERS) spectroscopy has evolved into a futuristic asset in point-of-care (PoC) analysis. SERS-based biosensing approaches offer promising solutions for the identification of pathogens, rapid testing for viruses, glucose or O2 saturation, antibiotic susceptibility testing, early cancer diagnosis or prognosis, and various other crucial clinical issues. With this Special Issue, we intend to comprehensively collect relevant SERS biosensors studies with potential in PoC testing and off-site use, with a view to improving healthcare accessibility and sustainability. Topics of interest to this Special Issue include, but are not limited to, the following:

- Label-free and label-based SERS bioassays;
- Miniaturized SERS-activated platforms for biosensing;
- Data augmentation in spectral pathology and diagnosis;
- Modern and conventional chemometric tools for high-accuracy SERS data analysis;
- Single-cell SERS detection of morphological variations associated with chronic diseases;
- Microfluidic SERS-based devices for clinical use.

Guest Editor

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About the Journal

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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