



Surface-Enhanced Raman Scattering Biosensors (Volume II)

Guest Editor:

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Deadline for manuscript
submissions:

30 January 2025

Message from the Guest Editor

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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