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Surface-Enhanced Raman Scattering Biosensors

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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 identifying pathogens; rapid testing for viruses, glucose or O₂ saturation; antibiotic susceptibility testing; early cancer diagnosis or prognosis and various other crucial clinical issues. We herein intend to comprehensively collect relevant SERS biosensors studies with potential in PoC testing and off-site use, meant to improve healthcare accessibility and sustainability.

In this Special Issue we will also provide the latest input resulting from synergistic approaches like SERS and machine learning, SERS-based spectral pathology enhanced by chemometrics and adaptive, robust computational tools or SERS-based setups which integrate digital technology for ultrasensitivity and reliability.



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Special Issue



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Message from the Editor-in-Chief

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