

Special Issue

Surface-Enhanced Raman Scattering (SERS) for (Bio)chemical Sensing Applications

Message from the Guest Editor

For this Special Issue, we invite both reviews and original research articles discussing novel SERS-based (bio)chemical sensing techniques that can be applied to analyte detection, quantification, or mapping. Research articles may focus on the use of SERS-based sensors in biological analysis, medical diagnostics, illicit drug detection, science, public safety, or food and water quality inspection. Chemical, colloidal, nanofabrication or other methods that can lead to ultrasensitive analyte detection through Raman signal enhancement (e.g., ultrasensitive SERS substrates) are welcome. Of special interest are applications of SERS with the potential to lead to miniaturized sensors, such as microfluidic (lab-on-a-chip) devices, portable/handheld SERS-based sensors for point-of-need applications, etc. Reviews must offer a critical and up-to-date overview of the state-of-the-art in a particular application, or discuss present and future challenges of SERS-based sensors (limit of detection, multiplexing, detection in complex matrices, etc.).

Guest Editor

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Deadline for manuscript submissions

closed (15 September 2023)



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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

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