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Recent Developments in Platforms for SERS Applications

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Message from the Guest Editors

Surface-enhanced Raman scattering (SERS) spectroscopy has been recognised as a powerful tool for chemical analysis in several fields, such as environmental monitoring, food safety or medicine. The design of SERS platforms with high sensitivity, reproducibility, and stability has become a hot topic in recent years.

For this Special Issue, we invite both reviews and original research articles discussing recent advances in the fabrication of high sensitivity and reproducibility platforms for SERS or TERS detection. Research articles may focus on the use of SERS and Raman imaging in environment/water quality monitoring, food contaminant detection, illicit drug detection, biological analysis, and medical diagnostics. Theoretical studies on the interaction and orientation of the adsorbates on the metal surface are also welcome. Of particular interest is the fabrication of lab-on-a-chip devices, wearable sensors, and portable/handheld SERS-based platforms for point-of-use applications. Reviews must report a critical overview of the state of the art in a specific application or discuss present and future challenges of SERS coupled with Raman imaging.

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Message from the Editorial Board

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