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# **SERS-Based Biosensors: Design and Biomedical Applications**

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# **Message from the Guest Editors**

Dear Colleagues,

In recent years, surface-enhanced Raman scattering (SERS) spectroscopy has gained recognition as a powerful tool for chemical analysis and for determining structural information about molecular systems in a wide range of fields. The SERS effect and mechanism is based on the strong amplification of the Raman signals of target molecules adsorbed and/or in proximity with Au or Ag metallic nanostructures and plasmonic quantum dots, which are commonly utilised in colloidal form or supported on solid substrates. The degree of SERS amplification is greatly dependent on the substrates employed for qualitative analysis and quantitative detection. Therefore, the development of SERS technologies with high sensitivity, reproducible results, and stability has become a hot topic in recent years, particularly as a clinical tool in the biomedical fields.

For this Special Issue, we welcome original research papers as well as reviews on current developments in the design of high-sensitivity and reproducible biomedical diagnostic systems with SERS, TERS, CRM, and/or SORS technologies.













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# **Message from the Editor-in-Chief**

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