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Surface-Enhanced Raman Spectroscopy for Sensing and Medical Diagnosis

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Message from the Collection Editors

Dear Colleagues,

Surface-enhanced Raman spectroscopy (SERS) is a vibrational-spectroscopy technique based on the intensity amplification of Raman scattering by metallic nanostructures with suitable plasmonic characteristics. Although SERS was initially limited to the analysis of dilute aqueous solutions of relatively simple systems such as small molecules or molecular ions, recent advances in nanotechnology, plasmonics, and photonics encouraged the application of SERS to more complex bio-systems such as macromolecules, cells, tissues, and biofluids.

The aim of this Topical Collection is to offer an overview of recent advances in SERS technology and applications. With this aim, original research papers, as well as review articles, will be published to show the diversity of the new developments in this area and the wide dissemination of the SERS technique in medical diagnostics and sensing applications for environmental monitoring, agriculture, industry, food safety, security, and pharmaceutical research.

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Message from the Editor-in-Chief

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