

Special Issue

SERS: Analytical and Biological Challenges

Message from the Guest Editor

Raman spectroscopy is attracting wide interests in several fields due to fingerprint molecular identification, availability of portable or optical fiber equipped instruments and, most of all, the low Raman cross section of water, that makes it suitable for aqueous or biological samples. Nevertheless, the anelastic Raman scattering is an intrinsic unfavored phenomena and a constantly increasing community is applying nanotechnology in order to amplify the far field signals by means of the so-called electromagnetic, as well as, chemical enhancement. SERS is therefore emerging in sensing applications, with sensitivities nowadays established at the single-molecule level. The route to upgrade SERS to practical applications is indeed disseminated of new challenges, as addressing complex biological matrixes, favoring target-selective interactions, aiming qualitative/quantitative estimations and build robust models for multicomponent analysis. This special issue collects best contribution of a wide community of scientists in rationalize and challenging the limits of SERS in sensing technology.

Guest Editor

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