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The Application of Surface-Enhanced Raman Spectroscopy (SERS) Platform

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Message from the Guest Editors

Surafce-enhanced Raman spectroscopy (SERS) has been developed as a rapid spectral detection technology, which has the characteristics of high sensitivity, high accuracy, fingerprint spectrum and no interference from water molecules. With the rapid development of laser technology and the growing maturity of nano material preparation technology, SERS has been widely applied in the molecular adsorption on single crystal surface, chemical reaction mechanism, cell behavior in organism, food safety, environmental pollution, chemical weapons and artwork identification. Therefore, the topics covered in this Special Issue will involve the recent innovations in SERS platform for use in sensors, food safety and environmental applications. New detection strategy, algorithm research, SERS device and multi technology combination, as well as the synthesis and characterization of new nanomaterials for SERS sensor will be also covered in this Special Issue.

keywords:

SERS sensor

nanomaterials use for SERS enhancement

the detection of harmful substrances

optimization of spectral algorithm

technology integration for sensor

SERS device

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