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Surfaced Enhanced Raman Scattering (SERS) in Disease Diagnosis

Guest Editor:

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Deadline for manuscript submissions:
closed (7 June 2019)

Message from the Guest Editor

Dear Colleagues,

Surface enhanced Raman spectroscopy (SERS), combining molecular specificity with a high sensitivity, became a powerful tool in sensing molecules in trace amounts within the field of chemical and biochemical analytics. The application of SERS in biology and medicine is further supported by the capability of SERS to be performed in complex biological compositions. Within this Special Issue, the focus will be on SERS-based detection schemes in disease diagnosis. This includes the detection of pathogenic bacteria and viruses in complex matrices such as body fluids as well as the analysis of metobolites of pathogens or drug molecules in biological fluids. Moreover, the disease detection is achieved by monitoring cellular changes in cells and tissues pointing toward in-vivo application of SERS including the usage of SERS tags. Finally, intracellular detection schemes using SERS-active particles is an emerging research topic. All researchers are welcome to submit a manuscript within the scope of SERS in disease diagnosis.

Dr. Dana Cialla-May
Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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