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# **Surface-Enhanced Raman Scattering Biosensors: Technologies and Applications**

Guest Editor:

#### Dr. Stefano Fornasaro

Department of Chemical and Pharmaceutical Sciences, University of Trieste, 34127 Trieste, Italy

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## **Message from the Guest Editor**

Surface-Enhanced Raman Scattering (SERS) Biosensors have numerous applications. This detection technology is advancing rapidly in chemistry, environmental science, food safety, materials science, medical diagnosis, biochemistry, and life sciences. On the one hand, it is motivated by the requirements of numerous and increasingly demanding biological and biomedical sensing applications; on the other hand, it is intimately tied to the availability of sensitive and repeatable ready-to-use SERS substrates.

This Special Issue offers a unique chance to combine the results of these two research areas: SERS-based biosensor fabrication and application. Its primary goal is to review cutting-edge fabrication technologies (ranging from nanomaterials with tunable shapes and nanostructures to surface bio-functionalization) as well as cutting-edge applications, such as the detection of ex vivo biofluids and biomolecules, DNAs, and microRNAs; disease diagnosis; monitoring of cellular properties such as pH, temperature, and ion concentrations; and single-cell detection and identification.













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### Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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