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High-Efficiency Surface-Enhanced Raman Scattering Biosensing

Guest Editors:

Dr. Giovanna Palermo

1. Department of Physics, NLHT-Lab, University of Calabria, Via Ponte P. Bucci, Cubo 33C, 87036 Rende, Cosenza, Italy
2. CNR NANOTEC-Institute of Nanotechnology, Via Ponte P. Bucci, Cubo 33C, 87036 Rende, Cosenza, Italy

Prof. Dr. Giuseppe Strangi

1. Department of Physics, Case Western Reserve University, 10600 Euclid Avenue, Cleveland, OH 44106, USA
2. Department of Physics, University of Calabria, 87036 Rende, CS, Italy

Message from the Guest Editors

The development of biosensors with high sensitivity and selectivity is increasingly becoming crucial in medical and clinical research for detecting extremely low concentrations of low-molecular-weight molecules relevant to diseases such as cancer and infectious diseases. To radically improve early diagnosis, the progression of the disease and the evaluation of the efficacy of drug therapy, it is necessary to have biosensors characterized by a high level of sensitivity, specificity and accuracy for the recognition of both nucleic acids and proteins. A strong contribution in this context is represented by the development of high-efficiency surface-enhanced Raman scattering (SERS) biosensors. This Special Issue aims to present the most recent studies on the progress achieved in the development, design, modeling, implementation and characterization of high-efficiency SERS biosensors.

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Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry "Ugo Schiff", University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

Message from the Editor-in-Chief

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Biosensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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