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Plasmonic Biosensors for Point-of-Care (POC) Diagnostics

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closed (30 December 2023)

Message from the Guest Editors

Dear Colleagues,

Plasmonic-based sensors have shown great potential in the development of point-of-care devices following extensive work over the past two decades, due to their high sensitivity, easy fabrication and the possibility of integration with other methods. These sensors operate by functionalizing a metallic surface with a specific receptor which, upon binding to the biomolecule (to be sensed), results in variations in the detectable parameter, such as the angle, wavelength or intensity, that represents changes in the resonance condition observed. Hence, choosing the appropriate materials, structures, reading methodology and functionality for plasmonic sensor fabrication is of great importance to developing biosensors that are highly specific for their application in real-life situations.

The present Special Issue, “Plasmonic Biosensors for Point-of-Care (POC) Diagnostics”, aims to assemble a diverse collection of works dealing with the development and integration of plasmonic transducers with advancements in modern technologies towards point-of-care testing devices.



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Special Issue



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Message from the Editor-in-Chief

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