

Special Issue

Nanostructured Materials for Optical Biosensing: Progress and Perspectives

Message from the Guest Editor

Nanostructured materials represent a vibrant area of research and a techno-economic sector with full expansion in many application domains. In particular, in the field of optical biosensors, nanostructured materials have gained prominence in technological advancements due to their tunable physical characteristics in manipulating light-biological matter interaction resulting in enhanced performance with respect to their bulk counterparts. The final goal of this Special Issue is to provide novel and smart optical biosensing approaches based on nanostructured materials. The Special Issue will focus on two biological topics: cancer related biomarkers and virus detection. Cancer biomarkers are a wide range of biochemical entities, such as nucleic acids, proteins, sugars, small metabolites, and cytokinetic parameters, as well as entire tumour cells found in body fluids. The importance of virus and viral proteins detection is dramatically demonstrated by our recent experiences. In particular, the health emergency related to SARS-CoV-2 put in evidence our inadequate response in terms of smart biosensing solutions for mass screening.

Guest Editor

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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