

Special Issue

Nano-Biointerface for Biosensing

Message from the Guest Editor

Point-of-care biosensor nanodevices have shown tremendous potentialities to revolutionize future personalized health-care diagnostics and therapy practices. With the rapid growth of nanotechnology, there has been an increased interest toward the development of engineered nanomaterials that can be used for triggered interactions with biological surfaces. In particular, nanomaterials-based biosensors play an increasing role in the construction of biosensing systems for different biological molecules (enzymes, antibodies, proteins, etc.). Functionalized nanomaterials, due to their unique and tunable electrochemical and optical properties, are being used as immobilization platforms, catalytic tools, optical and electroactive labels to enhance biosensing characteristics with the goal to obtain high sensitivity, stability, and selectivity. This Special Issue deals with the fundamentals of nanomaterials-based biosensors, addressing the different components of transducers, such as electrochemical, optical, piezoelectric, thermal, surface plasmon resonance, and their response at the hybrid biointerface.

Guest Editor

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Editor-in-Chief

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