Special Issue

Semiconductor Materials on Biosensors Application

Message from the Guest Editor

The unique size-dependent optical and electrical properties of semiconductor materials make them powerful tools in broad biosensing and diagnostic applications. In this regard, an effective integration of functional bio-recognition entities with semiconductor materials—so as to harness and enhance the specific biological functions, maximize individual's bioactivity and develop novel signal amplification and/or transduction strategies—is of key importance. Examples include the development of bioconjugation chemistries, bio-material interfaces, novel assay/signal transduction strategies to improve sensitivity and assay robustness, making them useful for real world applications. This Special Issue aims to highlight recent advances in the development of novel semiconductor materials, particularly using fluorescence or fluorescence resonance energy transfer based readout strategies, in areas of biosensing and diagnostic applications. , FRSC

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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