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## Semiconductor Materials on Biosensors Application

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submissions:

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### Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Dejian Zhou, FRSC

*Guest Editor*



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# Special Issue



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## Message from the Editor-in-Chief

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