



Biosensors Based on Nanomaterials and Nanodevices (Nanomaterials and their Applications)

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Biosensors Based on Nanomaterials and Nanodevices links interdisciplinary research from leading experts to provide graduate students, academics, researchers, and industry professionals alike with a comprehensive source for key advancements and future trends in nanostructured biosensor development. It describes the concepts, principles, materials, device fabrications, functions, system integrations, and applications of various types of biosensors based on signal transduction mechanisms, including fluorescence, photonic crystal, surface-enhanced Raman scattering, electrochemistry, electro-luminescence, field-effect transistor, and magnetic effect. The book:

- Explains how to utilize the unique properties of nanomaterials to construct nanostructured biosensors to achieve enhanced performance
- Features examples of biosensors based on both typical and emerging nanomaterials, such as gold nanoparticles, quantum dots, graphene, graphene oxides, magnetic nanoparticles, carbon nanotubes, inorganic nanowires/nanorods, plasmonic nanostructures, and photonic crystals
- Demonstrates the broad applications of nanostructured biosensors in environmental monitoring, food safety, industrial quality assurance, and *in vitro* and *in vivo* health diagnosis
- Inspires new ideas for tackling multiscale and multidisciplinary issues in developing high-performance biosensors for complex practical biomedical problems

Focusing on the connection between nanomaterials research and biosensor development, **Biosensors Based on Nanomaterials and Nanodevices** illustrates the exciting possibilities and critical challenges of biosensors based on nanomaterials and nanodevices for future health monitoring, disease diagnosis, therapeutic treatments, and beyond.

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