

Nanoscale Surface Modification for Enhanced Biosensing

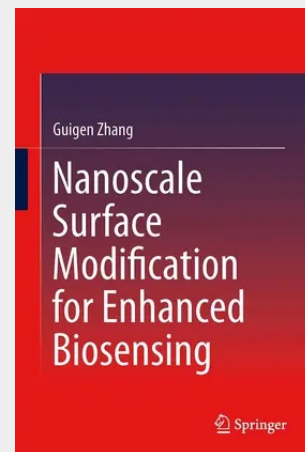
A Journey Toward Better Glucose Monitoring

This book gives a comprehensive overview of electrochemical-based biosensors and their crucial components. Practical examples are given throughout the text to illustrate how the performance of electrochemical-based biosensors can be improved by nanoscale surface modification and how an optimal design can be achieved. All essential aspects of biosensors are considered, including electrode functionalization, efficiency of the mass transport of reactive species, and long term durability and functionality of the sensor. This book also:

- Explains how the performance of an electrochemical-based biosensor can be improved by nanoscale surface modification
- Gives readers the tools to evaluate and improve the performance of a biosensor with a multidisciplinary approach that considers electrical, electrostatic, electrochemical, chemical, and biochemical events
- Links the performance of a sensor to the various governing physical and chemical principles so readers can fully understand how a biosensor with nanoscale modified electrode surface functions.

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