

AN INTERDISCIPLINARY APPROACH TO
ONE OF THE HOTTEST TOPICS
IN NANOTECHNOLOGY AND
NANOSCIENCE

Biosensing Using Nanomaterials introduces novel concepts in the area of bioanalysis based on nanomaterials, opening new opportunities for basic research and new tools for real bioanalytical applications.

In fifteen chapters, readers are introduced to the most successful nanomaterials used so far in biosensing, including carbon nanotubes, nanoparticles, and nano-channels. Each chapter provides a theoretical overview of the topic, a discussion of the published data relating to the bioanalytical system, and a selected list of references for further investigation. The result is a book that provides a comprehensive forum of interest to scientists, engineers, researchers, manufacturers, teachers, and students.

Biosensing Using Nanomaterials is an important resource for a broad audience involved in the research, teaching, learning, and practice of integrating nanomaterials into biosensing systems for clinical, environmental, and industrial applications.

ARBEN MERKOÇI, PhD, is ICREA Research Professor and Group Leader of Nanobioelectronics & Biosensors Group at Institut Català de Nanotecnologia in Spain. His research is aimed at the integration of biological molecules into micro- and nanostructures, with state-of-the-art bioelectronic read-out systems, extracting useful analytical signals with interest for various fields. Professor Merkoçi is the author of more than 200 refereed journal or conference papers, two books, five book chapters, and the editor of special international journal issues on nanomaterials. He has one patent in the field of nanomaterials-based biosensing systems.

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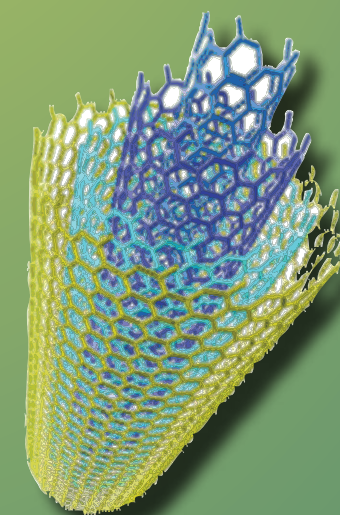
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Biosensing Using Nanomaterials



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