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| Descrizione fisica | 1 online resource (V, 243 p. 114 illus., 103 illus. in color.) |
| Disciplina | 570.28 |
| Soggetti | Biology—Technique Biomedical engineering Biotechnology Biological Techniques Biomedical Engineering and Bioengineering |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references at the end of each chapters and index. |
| Nota di contenuto | Chapter 1 Introduction -- Chapter 2. Micro/Nano Biosensors for Living Cell and Molecule Analysis -- Chapter 3 Label-free DNA Biosensors with Field-effect Devices -- Chapter4. Micro/Nano Cell-substrate Impedance Biosensors -- Chapter 5. Micro/Nano Cell Potential Biosensors -- Chapter 6. Micro/Nano Neuronal Network Cell Biosensors -- Chapter7. Micro/Nanomaterial-based Biosensors -- Chapter 8. Micro/Nano Electrochemical Sensors for Ion Sensing.-Chapter 9 Future Trends of Micro/Nano Cell and Molecule-based Biosensors. |
| Sommario/riassunto | This book focuses on cell- and molecule-based biosensors using micro/nano devices as transducers. After providing basic information on micro/nano cell- and molecule-based biosensors, it introduces readers to the basic structures and properties of micro/nano materials and their applications. The topics covered provide a comprehensive review of the current state of the art in micro/nano cell- and molecule-based biosensors as well as their future development trends, ensuring the book will be of great interest to the interdisciplinary community active in this area: researchers, engineers, biologists, medical scientists, and all those whose work involves related interdisciplinary |

research and applications. Dr. Ping Wang is a Professor in Department of Biomedical Engineering at Zhejiang University, Hangzhou, China. Dr. Chunsheng Wu is a Professor in Medical School at Xi'an Jiaotong University, Xi'an, China. Dr. Ning Hu is an Assistant researcher in Department of Biomedical Engineering at Zhejiang University and a Postdoctoral researcher in Medical School at Harvard University, Boston, USA. Dr. K. Jimmy Hsia is a Professor in Department of Biomedical Engineering at Carnegie Mellon University, Pittsburgh, USA.
