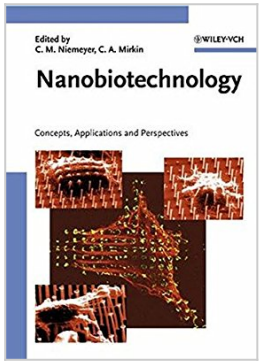

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Nanotechnology is the key technology of the 21st century. The possibility to exploit the structures and processes of biomolecules for novel functional materials, biosensors, bioelectronics and medical applications has created the rapidly growing field of nanobiotechnology.
Designed as a broad survey of the field, this book combines contributions from bioorganic and bioinorganic chemistry, molecular biology, materials science and bioanalytics to fathom the full scope of current and future developments.
It is divided into four main sections:
* Interphase Systems
* Protein-based Nanostructures
* DNA-based Nanostructures
* Nanoanalytics
Each chapter describes in detail currently available methods and contains numerous references to the primary literature, making this the perfect "field guide" for chemists, biologists and materials scientists who want to explore the fascinating world of nanobiotechnology.

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Editorial Review

Review
&describes in detail all currently available methods of this novel field of research& -- *Polymer News*

For those wanting to know more about this emerging scientific area, this is an excellent starting point." (*Microbiology Today*)

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From the Back Cover
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Professor Mirkin is known for his development of nanoparticle-based biodetection schemes and his invention of Dip-Pen Nanolithography. He is the founder of two companies, Nanosphere and NanoInk, which are commercializing nanotechnology applications in the life science and semiconductor industries.
Professor Mirkin has been recognized for his accomplishments with the 2004 Nobel Laureate Signature Award for Graduate Education in Chemistry (2003), the 2003 Raymond and Beverly Sackler Prize in the Physical Sciences, the 2002 Feynman Prize in Nanotechnology, the 2001 Leo Hendrick Baekeland Award, the Discover 2000 Award for Technological Innovation, I-Street Magazine's Top 5 List for Leading Academics in Technology, the Materials Research Society Young Investigator Award (2000), the ACS Award in Pure Chemistry (1999), the PLU Fresenius Award (1998), the Harvard University E. Bright Wilson Prize (1998), and the BF Goodrich Collegiate Inventors Award (1997).

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