



# **Bio-Inspired Nanomaterials and Applications: Nano Detection, Drug/Gene Delivery, Medical Diagnosis and Therapy (Frontiers in Nanobiomedical Research)**

*Shi Donglu*

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# Bio-Inspired Nanomaterials and Applications: Nano Detection, Drug/Gene Delivery, Medical Diagnosis and Therapy (Frontiers in Nanobiomedical Research)

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This book intends to provide an up-to-date information in the field of nanobiomedicine. The focus of the book is on the basic concepts and recent developments in the field of nanotechnology. This book covers a broad spectrum of nanomaterials processing, structural characteristics, and related properties and will include bio-probes, medical imaging, drug delivery, and tumor diagnosis. Critical issues are addressed in a straightforward manner so those with no technical background and university students can benefit from the information. Furthermore, many novel concepts in nanomaterials are explained in light of current theories. An important aspect of the book lies on its wide coverage in practical biomedical applications. Not only are the cutting-edge technologies in modern medicine introduced, but also unique materials applications in many clinical areas.

## **Contents:**

- Up-Conversion Nanoparticles for Early Cancer Diagnosis (*Liang Cheng, Bingbo Zhang and Zhuang Liu*)
- Redox-Sensitive Polymeric Nanoparticles for Intracellular Drug Delivery (*Huiyun Wen, Yongyong Li and Xin Zhao*)
- Design of Biocompatible PEIs as Artificial Gene Delivery Vectors (*Ting Shi, Chao Lin and Peng Zhao*)
- Magnetic Fe<sub>3</sub>O<sub>4</sub> Nanoparticles for Cancer Photothermal Therapy (*Maoquan Chu*)
- Nanomaterial-Based Sensors for Environmental Monitoring (*Jinhu Yang*)
- Janus Nanostructures and Their Bio-Medical Applications (*Yilong Wang and Feng Wang*)
- Nanomaterial-Involved Optical Imaging/Spectroscopy Methods for Single-Molecule Detections in Biomedicine (*Yao Qin*)
- Surface Functionalized Carbon Nanotubes for Biomedical Applications (*Bingdi Chen*)
- Intracellular siRNA Delivery by Multifunctional Nanoparticles (*Kun Lu, Lei Wang, Xiaohui Tan, Yao Chen, Changhui Wang and Lifeng Qi*)
- Chemical and Biological Sensors Based on Nanowire Transistors (*Xiaohan Wu and Jia Huang*)

**Readership:** Undergraduate or graduate students, and researchers in nanomaterials, biochemistry, biomedical engineering.

## **Key Features:**

- It is closely clinically oriented in medical diagnosis and treatment
- It is comprehensive in both nanomaterials and biomedical applications
- It includes many novel concepts in nanotechnology and up to date

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