Nanobiomaterials in Medical Imaging

Description: Nanobiomaterials in Medical Imaging presents the latest developments in medical exploratory approaches using nanotechnology. Leading researchers from around the world discuss recent progress and state-of-the-art techniques.

The book covers synthesis and surface modification of multimodal imaging agents, popular examples of nanoparticles and their applications in different imaging techniques, and combinatorial therapy for the development of multifunctional nanocarriers. The advantages and potential of current techniques are also considered.

This book will be of interest to postdoctoral researchers, professors and students engaged in the fields of materials science, biotechnology and applied chemistry. It will also be highly valuable to those working in industry, including pharmaceutics and biotechnology companies, medical researchers, biomedical engineers and advanced clinicians.

- A valuable resource for researchers, practitioners and students working in biomedical, biotechnological and engineering fields.
- A detailed guide to recent scientific progress, along with the latest application methods.
- Presents innovative opportunities and ideas for developing or improving technologies in nanomedicine and medical imaging.

Contents:

1. Specifically targeted imaging using functionalized nanoparticles
2. Photon and electron interactions with gold nanoparticle: A Monte Carlo study on gold nanoparticle-enhanced radiotherapy
3. Quantum Dots: Dynamic Tools in Cancer Nanomedicine
4. Basics to different imaging techniques, Different NanoBioMaterials for image enhancement
5. Design of Plasmonic Probes through Bioconjugation and Their Applications in Biomedicine: From Cellular Imaging to Cancer Therapy.
6. Multifunctional Nanocarriers for Co-Delivery of Nucleic Acids and Chemotherapeutics to Cancer Cells
7. Targeting and Imaging of Cancer Cells Using Nanomaterials
8. Multimodal Inorganic Nanoparticles for Biomedical Applications
9. Iron oxide nanomaterials for functional imaging
10. Nanobiomaterials involved in Medical Imaging Technologies
11. Applications of Carbon Nanomaterials in Biosensing and Cellular Imaging
12. Chapter Inorganic Nanobiomaterials for Medical Imaging
14. Multifunctional Carbon Nanotubes in Cancer Therapy and Imaging
15. Functionalized Carbon Nanotubes and their Promising Applications in Therapeutics and Diagnostics
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