



# Nanomaterials for Medical Applications

*Zoraida Aguilar*

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This title covers recent advances in a variety of biomedical applications of nanostructured materials, as the field evolves from prototype device to real-world application. It presents the main types of nanomaterial used in medical application today: semiconductor nanomaterials, Magnetic nanomaterials, metal nanoparticles, Carbon nanomaterials, Hydrogel nanocomposites, Liposomes, Dendrimers, Polymer nanocomposites, and Biodegradable polymers. Structurally the work is demarcated into the six most popular areas of research: (1) *biocompatibility* of nanomaterials with living organisms in their various manifestations (2) *nanobiosensors for clinical diagnostics*, detecting biomolecules which are useful in the clinical diagnosis of genetic, metabolically acquired, induced or infectious disease (3) *targeted drug delivery* for nanomaterials in their various modifications (4) *nanomedical devices and structures* which are used in the development of implantable medical devices and structures such as nanorobots (5) *nanopharmacology*, as novel nanoparticles are increasingly engineered to diagnose conditions and recognize pathogens, identify ideal pharmaceutical agents to treat the condition or pathogens, fuel high-yield production of matched pharmaceuticals (potentially in vivo), locate, attach or enter target tissue, structures or pathogens; and dispense the ideal mass of matched biological compound to the target regions (6) *nanotoxicology and remediation*, which focuses on finished and on-going various toxicity evaluations on various nanomaterials that are used and currently being developed for medical applications

- Discusses the most important biomedical applications and devices of nanomaterials: drug delivery, medical imaging, gene therapy, nanorobots, biosensors and diagnostics
- Focuses on current commercialized techniques and applications, ensuring the work is entirely relevant to a rapidly evolving field
- Reviews the most recent studies on nanomaterial toxicity, thereby responding to the widescale private, policy and public interest in nanoscience

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