

Special issue on

Research progress of nanotechnology in medical devices

CALL FOR PAPERS

Submission Deadline: September 2, 2023

Publication Date: Jan 2024

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Papers are published upon acceptance, regardless of the Special Issue publication date.

In our journal *Nano and Medical Materials*, a special issue is calling for papers about nanotechnology in medical devices.

The global medical device industry has experienced significant growth in recent years. The surge in patent publications in this field testifies to this fact. The advent of nanotechnology has opened up new unexplored vistas in the field of medical devices. Nanotechnology allows for the creation of implantable medical devices that are built to be fully biocompatible, allowing them to integrate seamlessly with the body's systems. Nanomaterials are used in devices including synthetic bone grafts, wound dressings and medical instruments for their excellent mechanical, biological and chemical properties. Implantable drug delivery systems can deliver small amounts of medication at regular intervals so that patients do not need injections.

Research is being conducted into the use of nanomaterials for new medical devices and implantable materials. New nanotechnology-driven medical devices are designed to provide a convenient real-time diagnosis of the disease that can be performed in a clinic rather than a laboratory, as well as implantable devices that are less stimulating and more functional.

In this special issue, we will focus on the nanotechnology application of medical devices. All topics involved are highly welcomed such as **implantable nanomaterials, nanotechnology in drug delivery, potential safety issue, nanoparticles used in medical devices, biological evaluation of medical devices, etc.**