



# **Inorganic Nanoparticles: Synthesis, Applications, and Perspectives (Nanomaterials and their Applications)**

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# Inorganic Nanoparticles: Synthesis, Applications, and Perspectives (Nanomaterials and their Applications)

## **Inorganic Nanoparticles: Synthesis, Applications, and Perspectives (Nanomaterials and their Applications)**

Among the various nanomaterials, inorganic nanoparticles are extremely important in modern technologies. They can be easily and cheaply synthesized and mass produced, and for this reason, they can also be more readily integrated into applications. **Inorganic Nanoparticles: Synthesis, Applications, and Perspectives** presents an overview of these special materials and explores the myriad ways in which they are used. It addresses a wide range of topics, including:

- Application of nanoparticles in magnetic storage media
- Use of metal and oxide nanoparticles to improve performance of oxide thin films as conducting media in commercial gas and vapor sensors
- Advances in semiconductors for light-emitting devices and other areas related to the energy sector, such as solar energy and energy storage devices (fuel cells, rechargeable batteries, etc.)
- The expanding role of nanosized particles in the field of catalysis, art conservation, and biomedicine

The book's contributors address the growing global interest in the application of inorganic nanoparticles in various technological sectors. Discussing advances in materials, device fabrication, and large-scale production—all of which are urgently required to reduce global energy demands—they cover innovations in areas such as solid-state lighting, detailing how it still offers higher efficiency but higher costs, compared to conventional lighting. They also address the impact of nanotechnology in the biomedical field, focusing on topics such as quantum dots for bioimaging, nanoparticle-based cancer therapy, drug delivery, antibacterial agents, and more.

*Fills the informational gap on the wide range of applications for inorganic nanoparticles in areas including biomedicine, electronics, storage media, conservation of cultural heritage, optics, textiles, and cosmetics*

Assembling work from an array of experts at the top of their respective fields, this book delivers a useful

analysis of the vast scope of existing and potential applications for inorganic nanoparticles. Versatile as either a professional research resource or textbook, this effective tool elucidates fundamentals and current advances associated with design, characterization, and application development of this promising and ever-evolving device.

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