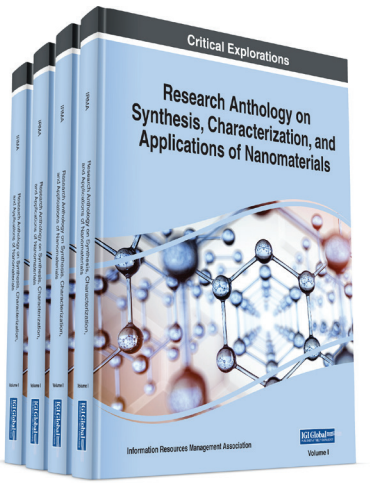
Research Anthology on Synthesis, Characterization, and Applications of Nanomaterials



IRMA (USA)

Description:

The use of nanotechnologies continues to grow, as nanomaterials have proven their versatility and use in many different fields and industries within the scientific profession. Using nanotechnology, materials can be made lighter, more durable, more reactive, and more efficient leading nanoscale materials to enhance many everyday products and processes. With many different sizes, shapes, and internal structures, the applications are endless. These uses range from pharmaceutics to materials such as cement or cloth, electronics, environmental sustainability, and more. Therefore, there has been a recent surge of research focused on the synthesis and characterizations of these nanomaterials to better understand how they can be used, their applications, and the many different types.

Research Anthology on Synthesis, Characterization, and Applications of Nanomaterials seeks to address not only how nanomaterials are created, used, or characterized, but also to apply this knowledge to the multidimensional industries, fields, and applications of nanomaterials and nanoscience. This includes topics such as both natural and manmade nanomaterials; the size, shape, reactivity, and other essential characteristics of nanomaterials; challenges and potential effects of using nanomaterials; and the advantages of nanomaterials with multidisciplinary uses. This book is ideally designed for researchers, engineers, practitioners, industrialists, educators, strategists, policymakers, scientists, and students working in fields that include materials engineering, engineering science, nanotechnology, biotechnology, microbiology, drug design and delivery, medicine, and more.

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Topics Covered:

- Biomedical Applications
- Bioremediation
- Chemical Properties
- Composite Structures
- Drug Delivery
- Energy Storage
- Graphene
- Industrial Science
- Materials Synthesis
- Mechanical Properties
- Medical Devices
- Nanocomposites
- Nanofibers
- Nanomaterials
- Nanoparticles

Subject: Science and Engineering

Classification: Critical Exploration

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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