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Editors:

Sher Bahadar Khan

Abdullah M. Asiri

Kalsoom Akhtar

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Development and Prospective Applications of Nanoscience and Nanotechnology: Nanomaterials and their Fascinating Attributes

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About the eBook

Nanotechnology is a diverse science that has brought about new applications in fields such as colloidal science, device physics and supra molecular chemistry. This volume gives an overview of the development of nanomaterial applications in energy and power generation, medicine and healthcare, water purification, biotechnology, electronics, sporting goods, environmental issues, military defense, and textile/fabric industries. The text also explains the fundamentals of polymer nanocomposites and their industrial applications. Other chapters cover semiconductor applications of nanomaterials, nanomaterial synthesis, characterization of nanocomposites and uses of nanofillers. Readers will also find notes on the DFT study of II-VI semiconducting nano-clusters.

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- Applications of Nano Materials, Organic Semiconductor Complexes and Composites Based Devices
- Nanocomposites and Importance of Nanofiller in Nanocomposites
- Solvothermal/Hydrothermal Synthetic Methods for Nanomaterials
- DFT Study of II-VI Semiconducting Nano-Clusters: An Overview

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