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by using different methods. Due to having more surface area they can be applied as catalysts. Mostly the metal nanoparticles can be utilized as good catalysts.

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researchers and teachers in academic, government, and industrial institutions in nanomaterials provide an accessible guide for newcomers to the field.

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Applications in bioimaging, biosensing, drug/gene delivery, and tumor therapy of manganese oxide nanomaterials (MONs including  $\text{MnO}_2$ ,  $\text{MnO}$ ,  $\text{Mn}_2\text{O}_3$ ,  $\text{Mn}_3\text{O}_4$ , and  $\text{MnO}_x$ ) and their derivatives, a review article focusing on MON-based nanoplatfoms has not been reported yet. Herein, the representative progresses of

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MONs on synthesis, heterogeneous, properties, surface modification, toxicity, imaging, biodetection, and therapy are mainly introduced.

Manganese Oxide Nanomaterials:

Synthesis, Properties, and ...

The synthesis strategies of Ir

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nanomaterials were outlined. □ The catalytic, SERS and luminescence properties of Ir nanomaterials were discussed. □ The applications of Ir nanomaterials in clean energy, tail gas purification, sensing and biomedicine were summarized. □ The outlook and potential challenges that Ir nanomaterials could face

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were suggested. And  
Synthesis, properties and applications of  
noble metal ...

Nanomaterials describe, in principle,  
materials of which a single unit small  
sized (in at least one dimension) between 1  
and 100 nm (the usual definition of

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nanoscale). Nanomaterials research takes a materials science-based approach to nanotechnology, leveraging advances in materials metrology and synthesis which have been developed in support of microfabrication research.

Nanomaterials - Wikipedia

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Applications

Germanium nanoparticles have excited  
scientists and engineers because of their  
size-dependent optical properties and their

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potential applications in optoelectronics, biological imaging and therapeutics, flash memories, and lithium-ion batteries. In order to further develop these applications and to gain deep Chemistry of functional nanomaterials

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colloidal ... Properties And

Abstract. Germanium nanoparticles have excited scientists and engineers because of their size-dependent optical properties and their potential applications in optoelectronics, biological imaging and therapeutics, flash memories, and lithium-ion batteries. In order to further develop

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these applications and to gain deeper insights into their size-dependent properties, robust and facile synthetic methods are needed to controllably synthesize Ge nanoparticles.

Synthesis, properties and applications of colloidal ...

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Organized by topic for easy access, this reference\* Covers the fundamental science, synthesis, characterization, physicochemical properties, and applications of oxide nanomaterials\*

Explains the fundamental aspects (quantum-mechanical and thermodynamic) that determine the

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Properties And Applications  
behavior and growth mode of nanostructured oxides\* Examines synthetic procedures using top-down and bottom-up fabrication technologies involving liquid-solid or gas-solid transformations\* Discusses the sophisticated ...

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Synthesis, Properties, and Applications of  
Oxide Nanomaterials

After introducing the unique physical and chemical properties of 2D metal nanomaterials, the potential applications of 2D metal nanomaterials in catalysis, surface enhanced Raman scattering, sensing, bioimaging, solar cells, and

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photothermal therapy are discussed in detail.

Two-Dimensional Metal Nanomaterials:  
Synthesis, Properties ...

Based on the author's own courses, this textbook shows how to produce nanomaterials and use them in engineering



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Applications for novel products. Following an introduction, the text goes on to treat synthesis, characterization techniques, thermal, optical, magnetic and electronic properties, processing and, finally, emerging applications.

Nanomaterials: An Introduction to

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Synthesis, Properties And

Applications  
Downsizing the materials into nanostructures and incorporating rare earth (RE) ions are effective means to improve their properties and broaden their applications. This review will systematically summarize the key points in the design, synthesis, property

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Improvements and application expansion  
of RE-containing (including both RE-  
based and RE-doped) halide and oxide  
perovskite nanomaterials (PNMs).

Rare-earth-containing perovskite  
nanomaterials: design ...

Synthesis, Technology and Applications

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of Carbon Nanomaterials explores the chemical properties of different classes of carbon nanomaterials and their major applications. As carbon nanomaterials are used for a variety of applications due to their versatile properties and characteristics, this book discusses recent advances in synthesis methods,

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Characterization, and applications of 0D  
-3D dimensional carbon nanomaterials.

Synthesis, Technology and Applications  
of Carbon Nanomaterials

We kindly invite you to submit a  
manuscript discussing the preparation, the  
properties and applications of such new

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materials whose structure and/or functional properties are determined by the presence of CDs. Full papers, communications, and reviews covering the various aspects of cyclodextrin-based nanomaterials are welcome.

Special Issue "Cyclodextrin-Based

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Nanomaterials: Synthesis ...

We then discuss the unique properties and niche applications of the hollow structures in diverse fields, including micro-/nanocontainers and reactors, optical properties and applications, magnetic properties, energy storage, catalysis, biomedical applications,

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environmental remediation, and sensors.

Finally, we provide a perspective on future development in the research relevant to hollow micro-/nanostructures.

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