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tumor therapy of manganese oxide nanomaterials (MONs including MnO_2 , MnO , Mn_2O_3 , Mn_3O_4 , and MnO_x) and their derivatives, a review article focusing on MON?based nanoplatfoms has not been reported yet.

Herein, the representative progresses of MONs on

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synthesis, heterogene,
properties, surface
modification, toxicity,
imaging, biodetection,
and therapy are mainly
introduced.

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The synthesis strategies
of Ir nanomaterials were
outlined. • The

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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 were suggested.

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Synthesis approach to nanotechnology, leveraging advances in materials metrology and synthesis which have been developed in support of microfabrication research.

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deep Chemistry of
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colloidal ...

Abstract. Germanium

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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 these applications and to gain

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

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Oxide Nanomaterials
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chemical properties of
2D metal nanomaterials,
the potential
applications of 2D metal
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enhanced Raman
scattering, sensing,
bioimaging, solar cells,
and photothermal
therapy are discussed in
detail.

Two-Dimensional Metal
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introduction, the text
goes on to treat
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characterization

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optical, magnetic and
electronic properties,
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Downsizing the
materials into
nanostructures and
incorporating rare earth
(RE) ions are effective

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means to improve their properties and broaden their applications. This review will

systematically summarize the key points in the design, synthesis, property improvements and application expansion of RE-containing (including both RE-based and RE-doped) halide and oxide

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Rare-earth-containing
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explores the chemical
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carbon nanomaterials are used for a variety of applications due to their versatile properties and characteristics, this book discusses recent advances in synthesis methods, characterization, and applications of 0D -3D dimensional carbon nanomaterials.

Synthesis, Technology
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