

Title: Nanomaterials review

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This review presents a critical analysis of advanced ROS-generating nanomaterials such as metal oxides, two-dimensional (2D) materials, carbon-based materials, perovskites, and hybrid ...

This review discusses a brief history of nanomaterials and their use throughout history to trigger advances in nanotechnology development. In particular, we describe and define various terms ...

In this review, with reference to the studies from the last five years, we summarize the fundamental components that are essential for dynamic diagnosis in vivo.

In this paper, the properties of nanomaterials such as the size effect, optical and electrical properties, and their advantages in the field of biosensing are briefly summarized, and the ...

Green approaches, such as plant extracts and microorganism biomolecules, are intriguing strategies that lead to nanoparticle synthesis with reduced or no toxicity compared to other methods. This ...

Nanomaterials is an international, interdisciplinary, peer-reviewed, open access journal published semimonthly online by MDPI, and that publishes reviews, ...

The synthesis of nanomaterials has emerged as an important branch of synthetic chemistry. Various techniques have been developed to control composition, size, shape and surface chemistry of ...

This review aims to provide a comprehensive overview of nanomaterial-based nanosensors, highlighting their applications and the classification of frequently employed NMs to enhance sensitivity and ...

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