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Metal Oxide Nanoparticles: Synthesis, Characterization, and Application

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Message from the Guest Editors

Dear Colleagues,

Today, more than ever, scientific research is called upon to solve social problems. Nanotechnology offers enormous possibilities for contemporary science and several industries. Metal oxide nanoparticles, such as proteins, genes, cells, viruses, and bacteria, can be used to interact with biological entities. In biomedicine, these nanoparticles are being developed as theragnostic agents. Additionally, they allow for smaller, faster, and more efficient devices to be manufactured in the electronic and energy conversion/storage industries.

In this context, this Special Issue aims to provide insights into the successes, challenges, and opportunities provided by metal oxide particles for these biological and technological applications. It provides a forum for the submission and discussion of original contributions that review metal oxide nanoparticles applications in general, their requirements, and how they can be achieved by using different synthesis methods and characterization techniques.

Keywords: core/shell nanoparticles; high-aspect-ratio nanoparticles; synthesis of nanoparticles; characterization of nanoparticles