Special Issue

Metal Oxide Nanoparticles: Synthesis, Characterization, and Application

Message from the Guest Editors

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

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About the Journal

Message from the Editor-in-Chief

Magnetochemistry constitutes a multidisciplinary field where chemists and physicists not only study magnetic properties but also design and synthesize chemical compounds with desired magnetic properties.

Magnetochemistry is inviting contributions in any field related with this area, such as theoretical models, crystal engineering, molecular magnetism, SMM, SIM, SCM, SCO, magnetic nanostructures, magnetic MOFs, magnetic recording, qubits, magneto-caloric materials, etc. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

Editor-in-Chief

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