Special Issue

Metal Oxide Nanostructures: Recent Developments in Synthesis, Characterization and Applications

Message from the Guest Editor

The main topics of this Issue will be regarding the synthesis, characterization, and applications of innovative metal oxide nanostructures for energy harvesting, permanent magnets, magnetocalorics for magnetic refrigeration technology, exchange bias for data storage, molecular magnets for quantum computers, water treatment, hyperthermia cancer therapy, drug delivery, and contrast agents for MRI. Such applications are currently some of the most needed technologies, including needed solutions for health, energy, and clean water. Metal oxide nanostructures have been of interest for many decades due to their interesting chemical and physical properties that include optical, magnetic, electrical, thermal transport, etc. Therefore, the aim of this Special Issue is to cover the state-of-the-art of the current innovative research in metal oxide nanostructures, including experimental and theoretical studies.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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