Special Issue

Inorganic Nanomaterials for Catalytic and Energy Applications

Message from the Guest Editor

During the last few years, functional oxides have attracted a considerable amount of attention due to their potential applications. Furthermore, most of them show interesting physical and chemical properties, which can be improved by choosing an appropriate synthesis method. In this sense, obtaining these solids with interesting properties is one of the most important areas of solid-state chemistry. At this point, it is important to point out that the relationships between chemical composition–structure/microstructure and properties must be studied in detail in order to understand and improve the final properties of these materials, and to make them more attractive from a technological point of view. This Special Issue is open to contributions addressing functional inorganic oxides, such as nanomaterials, ceramics, single crystals, or thin films, among others, with various catalytic or energy applications, including batteries, solar cells, fuel cells, thermoelectric, piezoelectric, and many other areas.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

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