Special Issue

Preparation and Characterization of Nanomaterials with Multifunctional Properties

Message from the Guest Editors

This Special Issue of *Nanomaterials* will present recent innovative scientific works, collected from both academia and industry, that describe the state of the art of nanomaterials with multifunctional properties. Moreover, it is expected to present an overview of different methods used for the preparation and characterization of nanomaterials for potential applications. The readers will find relevant information regarding some of the following topics:

- Synthesis of multifunctional nanomaterials;
- Organic/inorganic multifunctional nanocomposites;
- New characterization techniques for functional nanomaterials;
- Theoretical studies and modeling;
- Nanocomposites and their applications;
- Stimuli-responsive nanosystems;
- Catalysis;
- Bionanomaterials.

We are looking forward to receiving your contributions. See more information in https://www.mdpi.com/si/59644

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closed (30 June 2022)

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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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