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Synthesis, Processing and Application of Micro and Nanostructured Materials

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Nanostructured materials have been part of the scientific community for the last one or two decades, and still present a well-studied interest for all domains, from life sciences to materials science domains. Nanostructured sciences have been part of our area of research, and they have the potential to help make revolutionary discoveries based on their modified properties compared with micro-structured materials. Nanostructured materials are key to discovering new products based on new technologies.

This chapter is focused on finding new state-of-the-art and dairying methods for the synthesis and processing of nanostructured materials. The domains for usage of these materials are both in life and materials science with applications from biomedical devices, drug delivery systems, medical imaging to multiferroic materials, high-energy batteries, capacitors, superconductors, and aerospace components. The main aspect to keep in mind for this Special Issue of *Nanomaterials* is that it will attempt to cover the recent advances of the synthesis, processing, and application of micro and nanostructured materials.

Dr. Bogdan Stefan Vasile
Guest Editor



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Special Issue



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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.

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