

Special Issue

Tuning the Physicochemical Properties of Nanostructured Materials through Advanced Preparation Methods

Message from the Guest Editors

Over the last few decades, nanotechnology has gained huge interest due to its extensive application in various fields including catalysis, electronics, optics, energy, and environment. The design and controlled synthesis of advanced nanomaterials with unique properties make them highly attractive in these fields. Nanomaterials can be classified into one-, two-, and three-dimensional materials. The main characteristic of nanostructured materials is their surface reactivity due to their active surface functional groups. The control of the size, shape, and nature of nanoparticles is strongly influenced by the synthetic route applied during the preparation step (i.e. hydrothermal, solvothermal, combustion, sol-gel). We kindly invite you to submit a high-quality contribution to this Special Issue of *Nanomaterials*. For further reading, please follow the link to the Special Issue website at: <https://www.mdpi.com/si/41196>

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About the Journal

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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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