



## Microwave Technology and Nanomaterials: Synthesis and Application

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### Message from the Guest Editor

The development and use of nanomaterials is one of the most active research area. This class of materials has demonstrated a wide variety of applications ranging from biomedicine, to sensors or energy. Nanomaterial preparation procedures are generally based on conventional heating methods with long synthetic times and reagents consumption. In addition, conventional synthesis methods sometimes lead to the formation of heterogeneous materials. By contrast, the use of microwaves as an energy source appears as a strategy that allows some or all of these inconveniences to be overcome.

This Special Issue “The Microwave Assisted Synthesis of Nanomaterials” will offer an overview of new advances present trends and future perspectives in the use of this kind of energy as heat source. It is open to any nanomaterial prepared using microwave in any of the synthetic steps. Materials can be 2D nanomaterials, nanoparticles, etc. Also to the reports of applications of nanomaterials prepared following microwave assisted are welcome.





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## Editor-in-Chief

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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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