



Multi-Functional Nanoparticles for Therapy and Diagnostics

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Message from the Guest Editor

Nanomedicine has reached an exceptional level of interest, due to the good results obtained in recent decades using several nanoparticles for the treatment of cancer or the detection of markers of a variety of diseases. Nevertheless, it is facing limitations in some applications due to the complexity of the biological media and cell biology, which can lead to reduced efficacy or selectivity as well as drug resistance, among other factors. However, such shortcomings can be overcome with the proper choice and combination of active components in the preparation of the nanostructures. These more complex nanosystems might contain different drugs, coatings, ligands, nucleic acids, or reporting molecules, which interact in a defined manner, increasing their effectiveness in the treatment and/or detection of maladies.

This special issue of *Nanomaterials* aims to compile a selection of original contributions and review articles where the combination of active components on the nanostructure can lead to significant improvements of the available systems for the treatment and/or detection of any disease.





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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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