Special Issue

Nanomaterials for Cancer Therapy and Bio-Imaging

Message from the Guest Editors

Nanomaterials have been in the focus of researchers for several decades, however, the transfer of the scientific findings to clinics is very limited. This could be explained with both unsolved difficulties in nanomaterials engineering and a lack of knowledge in tumor biology. This Special Issue aims to highlight the ideas and techniques able to overcome the main limitations of the implementation of nanoparticles, including tumor accumulation, drug resistance, cell interactions, biofunctionalization and bioimaging issues, etc., with the proper attention to the nature of limitation and to the way to overcome it. We expect that the manuscripts will provide a clear idea of the use of exciting opportunities of nanomaterials to enhance their therapeutic and imaging modalities. The theragnostic approach that combines both imaging and therapy in one platform is also of interest, as is the use of complex in vitro and in vivo models to demonstrate the advantages of the discussed nanomaterials. In this Special Issue, original research articles and reviews are welcome.

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

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