



Nanoscience and Health: Tiny Technology Raises Big Questions

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Message from the Guest Editor

Dear Colleagues,

Nanoparticles have been explored for their potential use in cancer diagnosis and therapy due to their unique properties. In addition, nanoparticles have provided significant progress in cancer theranostics, in which both diagnosis and therapeutic functions can be achieved simultaneously. In the early stage of theranostics, imaging agents and therapeutic agents were simply carried in nanoparticles. However, theranostics has advanced in recent years with the aim of monitoring treatment subjects to increase drug efficacy and safety based on an oncology understanding of the overall healthcare system, as well as to eliminate the unnecessary treatment of patients.

The aim of this Special Issue (“Nanoscience and Health: Tiny Technology Raises Big Questions”) is to highlight advances in the development of a nanotechnology-based healthcare system that can be applied to the treatment and diagnosis of various diseases such as cancer, as well as infectious and genetic diseases, through an overall understanding of disease. Our Special Issue invites the submission of full size articles, short communications, case reports, and reviews.





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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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