Special Issue

Functional Nanoparticles for Experimental Therapy and Clinical Trial

Message from the Guest Editor

Nanoparticles provide significant advantages over conventional agents: Extension of circulation half-life, accumulation at regions of interest, such as tumor, due to the enhanced permeability, and the retention effect. Nanoparticles (NP) unique properties for biomedical applications and can be enhanced via functionalization. Different types of nanomaterials have been developed to provide contrast in medical imaging, thermal therapy, drug delivery, and theranostics. Surface modification of NPs is the approach of using the benefits of nanotechnology for personalized medicine. The current Special Issue is a compilation of advancements in the area of functional nanoparticles, the results of multidisciplinary research, including nanocomposites as radiosensitizers, contrast agents for X-ray imaging and drug delivery, novel chemical constructions for targeted chemotherapy, and preclinical and clinical trials. Our Special Issue invites full size articles, short communications, case reports, and reviews.

Guest Editor

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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.

Editor-in-Chief

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