Special Issue

Synthesis and Biomedical Application of Nanoparticles

Message from the Guest Editor

Dear Colleagues: Bionanotechnology and nanoparticle science are emerging fields connecting, in a mutual effort to solve major healthcare challenges, basic-science disciplines such as chemistry and physics with biological and clinical–medical sciences. The basic characteristics of nanoparticles and their medical functions can be modulated and tailored using advanced synthesis techniques, promising to expand the group of biomedical effective and clinically applied nanoparticles and nanocomposites. Advanced nanoparticles and nanocomposites have unique, and often theragnostic–multimodal properties, with potential broad biomedical applications such as, but not limited to, diagnostic and therapy of cancer and infectious agents (e.g., antiviral, antibacterial, and antiparasitic applications), vaccine production, and regenerative medicine. All these potential applications of nanoparticles will be covered in this Special Issue, which welcomes the submission of both reviews and original research articles in this area.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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