

Special Issue

The Application of Nanoparticles in Biomedicine

Message from the Guest Editor

Nanoparticles, nanomaterials, nanorods, core-shell nanoparticles, and hybrid nanoparticles have been extensively studied for various biomedical applications. Their applications are diverse such as contrast agents in magnetic resonance imaging (MRI) and X-ray computed tomography (CT), drug delivery, fluorescent imaging, biolabeling, biosensing, etc. Their properties are superior to conventional molecules and chelates. The aim of this Special Issue is to report a variety of nanoparticles and nanomaterials that can be applied to biomedicine, nanomedicine, and nanobiology. These include the synthesis of nanoparticles and nanomaterials and their characterizations using various techniques, surface modifications, and in vitro and in vivo applications. Surface modification with hydrophilic and biocompatible ligands is essential for their biomedical applications. This Special Issue will cover a variety of nanoparticles and nanomaterials that can be applied to biomedicine, nanomedicine, and nanobiology.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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