Special Issue

Nanoparticles for Biomedical Application: Second Volume

Message from the Guest Editors

Over the past three decades, the rapid development of nanotechnology has resulted in the increased implementation of nanoparticles (NPs) in the field of biomedicine. However, despite growing efforts, a relatively small number of nanoparticle-based formulations is currently used in clinical practice. Challenges such as improved characterization, possible toxicity, delivery efficacy and cost–benefit considerations still need to be improved and resolved.

Although most of the NP drug delivery systems are well-characterized in vitro and exhibit improved therapeutic efficacy compared to classical treatment with the free drug, in vivo clinical effects are not always encouraging and are often incomplete or lacking altogether. It is therefore of paramount importance to systemize and present the latest developments in the field of NPs in biomedical applications.

In this Special Issue, Nanoparticles for Biomedical Applications, in vitro and in vivo studies are highlighted and discussed. It is my pleasure to invite you to submit a manuscript for this Special Issue.

Guest Editors

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Deadline for manuscript submissions

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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