Special Issue

Nanoparticles for Biomedical Application

Message from the Guest Editor

For the past three decades, the rapid development of nanotechnology has resulted in the growing implementation of nanoparticles (NP) in the field of biomedicine as vehicles for drug delivery, diagnostic imaging, and theranostic application. Clinically approved and investigational nano-based drug formulations have been applied to a variety of indications, such as cancer, infectious diseases, neurodegenerative disorders, or tissue engineering. Although most of the NP drug delivery systems are well characterized in vitro and exhibit improved therapeutic efficacy when compared to classical treatment with the free drug, in vivo clinical effects are not always encouraging and are often incomplete or are lacking altogether. It is, therefore, of paramount importance to systemize and present the latest developments in the field of NP in biomedical application. In this Special Issue Nanoparticles for Biomedical Applications, including 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. Full papers, communications, and reviews are all welcome.

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Deadline for manuscript submissions

closed (30 June 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/31024

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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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