Special Issue

Metal-Containing Nanoparticles for Biomedical Applications

Message from the Guest Editor

Nanoparticles for biomedical applications is a rapidly growing field. The most popular nanoparticles include particles for optical imaging (fluorescent quantum dots); gold nanoparticles which contribute to direct heat-mediated cytotoxicity, magnetic nanoparticles manipulated via externally applied magnetic fields to control their behavior and so on. Nanoparticles for medical use must be biocompatible, nontoxic, and stable in a biological environment. These characteristics can be improved by functionalization of their surface, which also expands the area for their application. This Special Issue will therefore highlight different biomedical applications of nanoparticles. We are interested in articles that explore the design and synthesis of different kinds of nanoparticles, manipulation of their size, shape, properties, and functional groups, as well as opportunities and strategies for their successful clinical applications. Resent research projects addressing novel characterization protocols, the way nanoparticles interact with the biological environment and/or their toxicity, hazards, and biodistribution will also be of great interest.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2022)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/52291

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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