



Metallic Nanomaterials with Biomedical Applications

Guest Editor:

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Message from the Guest Editor

With the development of nanotechnology, metallic nanoparticles have been increasingly synthesized and widely exploited for biomedical applications for various demands, especially in biological sensing for the detection of different analytes, since health monitoring for early disease determination is of major clinical importance. The development of metallic nanomaterials and metallic oxide nanomaterials with unique properties enables them not only to be used for biomedical sensing but also to improve the performance of these materials as biomedical sensors.

In this Special Issue, we welcome articles that focus on the recent evolution of metallic nanoparticles and metallic oxides with the scope of presenting the state of the art of solutions where metallic nanoparticles have been synthesized for biomedical sensing. The Special Issue also intends to outline the fundamental development trends in the field together with the most recent advances in the use of metallic nanoparticles. All these topics will be covered in this collection of contributions, as will a large assortment of metallic nanoparticles and metallic oxides and their metallic oxide composites, together with their use.





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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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