Special Issue

Recent Insights on Metal Nanomaterials for Biomedicine and Health Care

Message from the Guest Editors

Metallic nanoparticles are also known as a leader in the fight against pathogenic microbial activity. They are characterised by high antimicrobial efficacy manifested against bacteria, viruses and fungi. Metal nanoparticles are an effective agent destroying a wide spectrum of Gram-negative and Gram-positive bacteria, they are also effective against antibiotic-resistant strains. There is a need to present the results of original experimental or theoretical research work undertaken to acquire new knowledge used to develop technologies to obtain new nanomaterials, to modify known processes for better controlling their properties or to develop formulations that will not have harmful properties towards living matter or will reduce these properties while maintaining the functionality of materials and exceptional performance properties. The present Special Issue of Nanomaterials will cover all aspects of most recent advances in application of metal nanoparticles in Biomedicine. Also, the scope will include novel approaches in obtaining, modifying and characterizing nanomaterials that may be applied in Bionanomedicine.

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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