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Multi-Functionalization of Metal and Metal Oxide Nanoparticles for Biomedical Applications

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Several new methods for preparation of metal and metal oxide nanoparticles (NPs) have been developed, allowing good control on morphology and size, but the evolution of functionalization strategies has lagged behind significantly. In fact, nanomaterials for applications depending on more complex surface chemistry are awaiting the evolution of this strategic area. Good examples are nanomaterials for biomedical applications, especially for intravenous administration, where an excellent control of the functionalization processes is demanded to tailor the colloidal stability and functional features. This Special Issue is focused on strategies for multi-functionalization in association with the respective NP preparation and application methods, given their key roles in opening new frontiers for realizing breakthrough nanomaterials for biomedical applications. See more information in

<https://www.mdpi.com/si/81263>

Prof. Dr. Koiti Araki

Guest Editor



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Special Issue



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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.

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