Special Issue

Advanced Nanomaterials for Bioimaging: 2nd Edition

Message from the Guest Editor

The aim of this Special Issue is to report a variety of imaging agents made of nanomaterials that have already been reported. These include the synthesis of nanomaterials using various techniques, surface modifications, characterizations, and in vitro and in vivo applications as imaging agents. Particle size and shape affect imaging properties; thus, their control is very important for the successful application of nanomaterials as imaging agents. Surface modification with hydrophilic ligands is essential for their biomedical applications as imaging agents. The further functionalization of the surface-modified nanomaterials with functional molecules such as drugs and cancer-targeting ligands will allow them to be used as cancer-targeting theragnostic agents. This Special Issue will cover a variety of nanomaterials which can be applied to MRI, CT, FI, and AI as imaging agents.

Guest Editor

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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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