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## Nanomaterials for Contrast Agent and Biomedical Imaging

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (27 May 2021)**

### **Message from the Guest Editor**

A key focus of nanotechnology for biomedical application is the use of nanomaterials as Contrast Agents (CA) for anatomical and functional imaging. By exploiting the potential of nanotechnology, researchers have designed nanomaterials containing probes for different imaging modalities (multimodal CA) and targeting moieties, such as peptides or antibodies, which in principle could improve the specificity of the CA. Nanomaterials are excellent candidates for tumour diagnosis, although massive capture in the reticuloendothelial system strongly limits the percentage of the injected dose that actually reaches tumour tissue.

Despite a limited cost/benefit ratio and some safety concerns which have prevented until now the clinical development and widespread use of nanomaterials as CA and biomedical imaging tools, this is a flourishing and original research field.



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# Special Issue



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## Editor-in-Chief

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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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