



Nanomaterials for Biomedical Applications

Guest Editors:

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Prof. Dr. Helen McCarthy

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Deadline for manuscript
submissions:

closed (31 May 2021)

Message from the Guest Editors

Dear colleagues,

The use of nanomaterials within the biomedical field offers the potential for many ground-breaking opportunities in the treatment and repair of diseased or damaged tissue or bone cancer. The merging of nanomaterials with research studies to identify genes, proteins and metabolites linked with human disease and design new diagnostics tools and more focused therapies for patients, will significantly influence the future of healthcare research and clinical translation.

In this Special Issue, we expect contributions from a wide community of engineers and scientists working on diverse applications relating to the design, synthesis, characterisation, manufacture and translation of nanotechnology in biomedical engineering and interdisciplinary teams focusing on nanotechnology-enabled innovative solutions for biomedical research, diagnostics and advanced therapeutic approaches. As the safety of novel nanomaterials intended for the use in humans remains of primary importance, we also anticipate manuscripts dealing with these aspects of nanotechnology and nanomedicine in this Special Issue.

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Prof. Helen McCarthy
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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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