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Applications of Nanomaterials for Biological Analysis

Guest Editor:

Dr. Ying Liu
National Center for Nanoscience and Technology, Beijing, China

Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editor

Advances in nanotechnology have resulted in the incessant emergence of a large number of nanomaterials. The development of novel nanomaterials is opening up new opportunities in diverse fields, especially in the biomedical area. Due to their novel features, these nanomaterials are enabling a broad range of applications in biological analysis through protein analysis, DNA/RNA labeling, cell separation, molecular identification, bio-imaging, biosensors, biochips, etc. The most challenging aspects for application include how to increase the specificity and sensitivity for analysis as well as the biosafety in in vivo detection.

The Special Issue entitled “Applications of Nanomaterials for Biological Analysis” will highlight the most recent advances in the synthesis, characterization, mechanisms, biosafety, and novel applications of nanomaterials for biological analysis. We are very pleased to invite you to submit your manuscript to this Special Issue through the *Nanomaterials* website. Both original research articles and reviews are welcome.

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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.

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