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Bionanotechnology and Nanobiotechnology: Biomimetics or Engineering Nature?

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Deadline for manuscript
submissions:

closed (30 September 2021)

Message from the Guest Editors

This Special Issue will bring together the latest advances in the fields of bionanotechnology and nanobiotechnology. The issue aims to highlight the challenges and obstacles underpinning these newly established fields. By understanding and identifying the hurdles and bottlenecks, it will deepen our fundamental understanding regarding physical, chemical, and biological phenomena that set the foundations of the aforementioned complex processes.

We invite investigators to contribute articles of original research, as well as review articles. An indicative but not exclusive list of topics is as follows:

- Nanobiotechnology and bionanotechnology;
- Nanobioengineering, nanobioprinting;
- Nanofabricated scaffolds;
- Nanobiomaterials and bionanomaterials;
- Biomimetics;
- Nanomedicine and nanotherapeutics;
- Proteins as molecular machines and nanorobots;
- Microbe and cell factories;
- DNA origami;
- Nanotechnology for agriculture, forestry and food;
- Nanoelectromechanical and nanofluidic systems for biology;
- Characterisation tools and techniques for nanobiotechnology and bionanotechnology (e.g., cryoEM, AFM, super resolution microscopy).



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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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