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Novel Properties and Current Challenges of Biosynthesized Nanomaterials for Theranostic Applications

Guest Editor:

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Deadline for manuscript submissions:
closed (30 August 2021)

Message from the Guest Editor

This research topic intends to present recent advances in the synthesis, functionalization, and biomedical application of novel biosynthesized nanomaterials. We welcome studies focused on emerging nanomaterials, methodologies, theoretical simulations, and their applications in biomedical sciences, ranging from therapy to drug delivery, bioimaging, and biosensors.

Following topics are welcomed:

- Biosynthesis and characterization of novel nanomaterials, such as bacteria, fungi, algae, and plants;
- Strategies to enhance the properties of biosynthesized nanomaterials for biomedical applications;
- Biosynthesized nanomaterial-based drug formulations for targeted and controlled delivery;
- Advanced smart and functional biosynthesized nanomaterials with enhanced drug entrapment efficiency;
- Biological functionalization of nanomaterials for biomedical applications;
- Challenges in the large-scale production of biosynthesized nanomaterials for biomedical applications.

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Special Issue

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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