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Prospects of Bioinspired and Biomimetic Materials

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to cover the state of the art of **biomimetic** materials that pursue a planned pattern derivative of the natural world.

The Special Issue is to provide a peer-reviewed forum for the publication of original papers, review articles, opinion papers and short communications. The scope of this Special Issue aims to cover biomedical and toxicology aspects of biofabricated materials. We welcome contributions on the following topics:

- Design and synthesis of bionanocomposites.
- Synthesis of hybrid materials using various procedures.
- Detailed physicochemical characterization of biomaterials and materials.
- Diverse biological applications such as cell culture, tissue engineering, biomedical and antimicrobial screening of synthesized materials.
- Applications of bioinspired materials in bioremediation.

See more information in <https://www.mdpi.com/si/80153>

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Guest Editor



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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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