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Biomimetic and Biogenic Multifunctional Nanomaterials

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Deadline for manuscript submissions:
closed (20 July 2023)

Message from the Guest Editors

Dear Colleagues,

This Special Issue is devoted to an important direction in the development of new magnetic and nonmagnetic nanomaterials associated with the use of natural, namely biogenic, components in their composition or in their preparation, as well as with the imitation of natural processes in the synthesis of biomimetic nanomaterials.

1. Biogenic magnetic and nonmagnetic nanomaterials;
2. Biomimetic magnetic and nonmagnetic nanomaterials;
3. Hybrid natural-synthetic nanomaterials;
4. Natural minerals containing biogenic nanoparticles and their synthetic analogues;
5. Nanostructured composite membranes for biomimetic actuators and sensors;
6. Sustainable multifunctional biomimetic nanomaterials;
7. Bioinspired synthesis of nanomaterials;
8. Novel methods for study of biomimetic and biogenic nanomaterials;
9. Mathematical modeling of biomimetic and biogenic nanomaterials;
10. Applications of biomimetic and biogenic nanomaterials.

We look forward to receiving your contributions.

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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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