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Bionic Nano Engineering

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Message from the Guest Editors

We invite you to submit your work to this Special Issue of *Nanomaterials* titled "Bionic Nano Engineering".

How to perfectly couple bionic strategies with existing sensors and emerging nanomaterials has been a key topic and a long-term pursuit of both scientists and engineers. However, it is still a challenging but rewarding task to determine the working mechanism behind remarkable and complex biological functions, and apply this mechanism to realize beneficial bionic manufacturing. This will continue to inspire researchers to make progress in an ever-broader range of fields.

The scope of this Special Issue on Bionic Nano Engineering mainly focuses on the latest research advances and frontiers of biomimetics of machinery, bio-inspired sensors and bio-inspired nanocomposites, which demonstrate a strong scientific and potential engineering application prospect.

In particular, the topics of interest include, but are not limited to:

- Bionic design;
- Biomimetics of machinery;
- Bio-inspired sensors;
- Biomimetic nanocomposites;
- Bionic antireflection surfaces;
- Bio-inspired interface materials.



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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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