Special Issue

Biomimetic and Bioinspired Nanomaterials/Nanostructures and Their Application

Message from the Guest Editors

The significant and continuous increase in hope for life all around the world generated a huge interest towards biomaterials for fixing or replacing damaged vivid tissues, for the controlled administration of drugs, and for new advanced biosensors. All efforts were accordingly pushed towards to new concepts of biomimetics (biomimicry) and bioinspiration. We therefore decided to launch a Special Issue devoted to "Biomimetic and Bioinspired Nanomaterials/Nanostructures", with special emphasis on thin films and nanoparticles. Here follows a list of suggested topics: 1⃞Biomimetic materials and functional surfaces for biomedical applications at nanoscale; 2⃞Biomimetics and bionic engineering; 3⃞Structure and mechanics of nature bioinspired materials; 4⃞Application and performance of bioinspired materials; 5⃞Synthesis of biomimetic nanoparticles, nanocomposites, and natural products; 6⃞Biodegradability and mechanical properties of biomimetic nanostructures; 7⃞Biomimetic approach in inorganic material chemistry

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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