Special Issue

DNA-Based Nanostructures: Emerging Trends and Applications

Message from the Guest Editor

Various aspects of DNA-based nanostructures belong to some of most exciting topics in nanotechnology, benefitting from the intrinsic ability of DNA to self-assemble and store information. The use of DNA structures in nanotechnology, pioneered by Ned Seeman, has now expanded from simple 2D-arrays to complex 3D moveable structures and currently spans a broad range of fields, from nanomedicine and drug delivery to biosensors, plasmonics, and nanoelectronics. In this Special Issue, we aim to cover recent advances in this fast-growing field and invite manuscripts related to all aspects of DNA-based nanostructures.

Guest Editor

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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