Special Issue

New Strategies for Anticancer and Antimicrobial Studies Based on Emerging Nanostructures

Message from the Guest Editor

The present Special Issue aims to present new strategies for developing nanostructure-based formulations to enhance their therapeutic use, minimize the instrumental analysis cost for various types of cancers (chemotherapy, radiotherapy, immunotherapy, surgery, etc.), and aid in their applications as antimicrobial agents. We aim to encompasses a variety of nanostructure material applications in all areas of science (chemistry, physics, biology, medical, engineering, agriculture, etc.), including the use of quantum dots, nanoparticles, and a range of nanostructures to control various types of cancer, microbes, infectious diseases, drug delivery, and DNA binding, as well as the application of physico, chemico, and biochemical sensors.

Guest Editor

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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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