



Biomedical Applications of Nano-Base Composites

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Deadline for manuscript
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Message from the Guest Editors

Dear Colleagues,

This Special Issue is dedicated to the biomedical applications of cellular redox modulating nanocomposites (NCs). The composition of the NC in part dictates its function. For instance, some nanocomposites carry magnetic nanoparticles suitable for magnetic resonance imaging, some are micellar or polymeric particles that carry drugs, while others are redox active metal oxide or graphene-containing antioxidants. The potential range of applications is nearly endless. NCs are extensible by their nature, and functionalities can be added to enhance cellular uptake, target intracellular compartments, deliver drugs or nucleic acid sequences, or themselves act as a bioactive agent, among many other potential functions. The many design strategies are testaments to the enormous synthetic space these materials are part of.

In this Special Issue, we will compile the recent advancements in the multidisciplinary field of functional nanocomposites with potential therapeutic applications. Our Special Issue invites full-size articles, short communications, case reports, and reviews. Submission deadline is October 30, 2020





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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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