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Review of Nanocomposite Materials

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Message from the Guest Editor

Nanocomposites are composed of several nanomaterials with at least two or more phases at nano-sized dimensions, which can also be embedded within a bulk material. These nanomaterials show various properties and functions depending on the compositions, structures and the design strategies for the nanocomposites, and have been applied in various fields. The nanocomposite can integrate different functional nanomaterials into one multifunction material, which can serve as multimodalities. The simple and facile synthesis method is being continuously explored to overcome certain drawbacks such as its high complexity and the difficulty of controlling it effectively. The high flexibility of the composition strategy has allowed various kinds of nanocomposites to be developed and applied in almost all fields in the past few decades.

In this Special Issue, we are seeking reviews and research articles on nanocomposite and hybrid nanomaterials for cutting-edge technologies for the drug delivery, targeting therapy, phototherapy, sensing, imaging, regeneration, catalysis, analysis, engineering, energy, environmental treatment, microbial control, and other integrated fields.



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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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