



Hybrid Nanomaterials Synthesis and Application

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Message from the Guest Editor

I would like to invite you to consider submitting a paper to this Special Issue in the field of hybrid nanomaterials. In this context, it is crucial to explain that hybrid nanomaterials may be considered in some degree of probability, like composite materials possessing separately different chemical or physical properties, but within the composite synergistically interacting with each other and raising the functionality of final material. For the case of the nanocomposite, the constituent materials should have distinctive phases, and the dimension of at least one of them should be less than 100 nanometers. Sometimes, the structure of nanocomposite has nanoscale repeat distances between the different phases that make up the material. One example of nanocomposite can be host-guest systems, e.g., silica, titanium dioxide, or zinc oxide as ideal matrices. Such nanocomposites are widely used in electronics, energy storage, sensing, catalysis or even possess antimicrobial features. Each of them has promising properties suitable for research in high-quality original articles and might have a potential for application in the industry.





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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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