Special Issue

Morphological Design and Synthesis of Nanoparticles (Second Edition)

Message from the Guest Editors

The latest trends in nanoparticle research are aimed at correlating the nanoparticle morphology and function. For example, the asymmetry of Janus nanoparticles endows these amphiphilic properties, and capability to partition at interfaces, self-assemble into suprastructures, emulsify or function as unidirectional nanomotors, etc. But there are numerous other examples of functionality that arises from the morphological design of the nanoparticles, for example in nanoparticle catalysis, in drug delivery systems, or nanoparticles used as technology enablers for designing nanostructured materials, interfaces and composites. This special issue is dedicated to promoting advances in synthetic strategies of nanoparticles with unique morphologies, design of materials derived from use of (multi-)functional nanoparticles, physicochemical investigations of phenomena arising from such nanoparticles, devices incorporating these nanoparticles as active ingredients, and new applications. We are looking forward to your contribution and hope that together we can unlock inspiring new perspectives and boost the interdisciplinary collaboration in this field.

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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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