Special Issue

Advanced Studies in Colloidal Nano-Matters and Materials

Message from the Guest Editors

Nanomaterials, recognized by their tiny size, measured in nanometers, are of special interest due to their tunable physicochemical and biological properties with enhanced performance compared with those of their individual counterparts. These improvements induce and ensure the extension of their field of applications. As a result, multiple research studies have been dedicated to the design, synthesis, characterization, and applications of nanomaterials and have consequently developed investigations on issues related to toxicity and risk assessment of the use of these compounds in the environment. Nanomaterials and colloidal nanoparticles, which can be synthesized with variable morphologies and functionalities, represent a wide field of research both in terms of obtaining methods and also of the possibilities of using the resulting structures.

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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.

Editor-in-Chief

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