Special Issue

Nanoparticles and Biomacromolecule: Nanotechnology Meets Materials Science

Message from the Guest Editor

The nanoparticles that have been synthesized by scientists so far are very diverse and have various properties. Although various studies on the characterization of interactions with biomolecules, the detection of biomolecules, and in vivo applications have been conducted using these nanoparticle-based technologies, access to biomacromolecules remains challenging. On the other hand, by utilizing the various properties of nanoparticles, it is possible to form new complexes through interaction with biomacromolecules. The purpose of this Special Issue of *Nanomaterials* is to present research on the interaction between nanoparticles and biomacromolecules as well as advanced research on new composite fabrication technologies and their applications. The scope of research is wide, ranging from utilizing the various types and characteristics of nanoparticles to study biomacromolecules to biomedical applications that are derived through complex formation. In this Special Issue, we would like to cover the latest interesting and impactful research in this field.

Guest Editor

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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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