

Special Issue

Protein Nanostructures for Biomedical Applications

Message from the Guest Editor

It is a well-known fact that proteins are key players in essentially all biological processes and that protein molecules often are organized into functional nanoscale assemblies. Inspired by Nature's design principles, protein-based nanostructures are becoming important components in a range of biomedical applications, including, for example, drug delivery, biosensors, and tissue engineering. The opportunity to tailor the structural and functional properties of protein molecules and their supramolecular assemblies offers design possibilities that are truly unique for proteins. The intrinsic biocompatibility of protein-based structures is indeed an attractive property for these technologies, but there are also important questions related to the potential risks of, for instance, amyloid-like protein nanofibrils, which need to be further investigated. This Special Issue of *Nanomaterials* invites contributions concerning the design, development or application of peptide- or protein-based nanostructures for biomedical purposes.

Guest Editor

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Deadline for manuscript submissions

closed (30 October 2020)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/21213

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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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