



Protein Nanostructures for Biomedical Applications

Guest Editor:

Dr. Christofer Lendel

KTH Royal Institute of
Technology, Department of
Chemistry, Stockholm, Sweden

Deadline for manuscript
submissions:

closed (30 October 2020)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science,
University of Birmingham,
Birmingham B15 2TT, UK

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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)

Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
[X@nano_mdpi](https://twitter.com/nano_mdpi)