

Special Issue

Interactions of Nanoparticles with Biomolecules

Message from the Guest Editor

In recent years, there has been a steadily growing interest in the utilization of nanoparticles in various biomedical applications, including targeted drug and gene delivery, bioimaging, biosensing, cancer therapy through hyperthermia or photoablation, theranostics, and cell labeling. However, most applications require additional organic or bioactive molecules for fulfilling the desired purposes, enhancing biocompatibility and avoiding immune responses from the organism, and inducing supplementary effects, such as antimicrobial, antioxidant, or anti-cancer. Therefore, nanoparticles mostly function as carriers for that will specifically target the desired area and release various biomolecules. In this manner, recent years have witnessed tremendous advancements in the development of efficient methods for encapsulating or attaching these biomolecules at the nanoparticle level. Therefore, the aim of this Special Issue is to gather all the information and contributions from recent years concerning the precise interactions of nanoparticles with biomolecules in the process of developing complex systems.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2022)



International Journal of Molecular Sciences

an Open Access Journal
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Impact Factor 4.9
CiteScore 8.1
Indexed in PubMed



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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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