

Special Issue

Interactions of Nanosized Particles with Living Cells and Subcellular Structures

Message from the Guest Editor

Despite persistent hurdles, the development of nanoparticles has led to the development of nano-based medicines for a broad range of clinical applications. Emerging evidence suggests that we still understand the mechanisms by which nanomaterials act at the cellular and sub-cellular levels poorly. Better understanding of fundamental signaling events that are modified by nanomaterials is essential to overcome the clinical problems with nanoparticles. Therefore, we invite authors to contribute with studies that critically revisit mechanisms of nanomaterial–cell interactions and challenges related to their identification. We aim to achieve a timely update of current views on nanomaterial–cell interactions, potential in vitro models and platforms used in bio-nano interaction research, and critically assess their strengths and limitations. We invite the submission of manuscripts that not only demonstrate the success of nano-based medicines, but also critically analyse pitfalls and challenges in the field. Highlighting problems in the field will certainly create a basis for the future rational design of nanomaterials and improve their clinical translation.

Guest Editor

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Deadline for manuscript submissions

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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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