

Special Issue

Antibacterial Nanomaterials for Medicinal Applications

Message from the Guest Editor

The rise of antibacterial resistance and the increasing prevalence of difficult-to-treat infections have posed significant challenges to global healthcare systems. With the overuse of traditional antibiotics, the development of innovative solutions to combat bacterial infections has become imperative. Nanotechnology has emerged as a promising frontier in this battle, offering unique advantages through the design and application of antibacterial nanomaterials. This Special Issue aims to explore the latest advancements in antibacterial nanomaterials and their role in various medical fields. Topics of interest include, but are not limited to, the synthesis and characterization of novel nanomaterials, their mechanisms of antibacterial action, applications in drug delivery systems, wound healing, coatings for medical devices, and strategies to address toxicity and biocompatibility concerns. We invite contributions of research articles, reviews, and perspectives that highlight the potential of nanomaterials to revolutionize medicinal applications.

Guest Editor

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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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