

Special Issue

Untargeted versus Targeted Antimicrobial Nanomedicines

Message from the Guest Editors

Depending on the pathogen, communicable diseases have reached, or threaten to reach, epidemic proportions, with high mortality rates, and financial and societal costs. Infection initiation, and endurance, is encouraged by immunosuppressive factors and/or development of persistent microbial infections. Multiple antimicrobial (AM) treatments exist, but microbial resistance to therapeutics leads to host unresponsiveness to the bioactive agents and inability to fight the infection. Multiple AM compounds and innovative drug delivery systems (e.g., targeted nanoparticle (NP)-mediated therapies, for quick and efficient bioactivity, using low doses and avoiding off-target effects) are gathering value as potential alternatives, or adjuvants, to the traditional treatment modalities. This Special Issue intends to decipher the importance of cell-specific targeting (pathogens or immune cells) via NP-based approaches to effectively treat an infectious disease. Original articles, reviews, short communications, and letters will be considered for publication in this Special Issue.

Guest Editors

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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