Special Issue

Metal-Based Nanoparticles as Antimicrobial Agents: Trends and Prospects

Message from the Guest Editor

Bacteria are ubiquitous, living in every possible habitat on the planet. However, several species of bacteria are pathogenic and cause infectious diseases, including cholera, syphilis, anthrax, leprosy, and bubonic plague. Antibiotics are used to treat bacterial infections, making antibiotic resistance a growing problem. Thus, research to understand and fight a wide range of pathogenic bacterial infections must be pursued. Metal-based nanomaterials and their composites have attracted extensive interest as an appealing approach to extirpate bacterial pathogenic strains. The Special Issue invites contributions from the all categories related to metal-based antibacterial nanomaterials. More details please see the special issue webpage. We await your contribution to the topics above or other relevant topics with great interest.

Guest Editor

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Deadline for manuscript submissions

closed (15 August 2022)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/103218

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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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