



an Open Access Journal by MDPI

Metal-Based Nanoparticles as Antimicrobial Agents: Trends and Prospects

Guest Editor:

Prof. Dr. Junwei Ye

State Key Laboratory of Fine
Chemicals, School of Chemical
Engineering, Dalian University of
Technology, Dalian, China

Deadline for manuscript
submissions:

closed (15 August 2022)

Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Junwei Ye
Guest Editor



mdpi.com/si/103218

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and
Environmental Science,
University of Birmingham,
Birmingham B15 2TT, UK

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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)

Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
[X@nano_mdpi](https://twitter.com/nano_mdpi)