Special Issue

Antibiotic-Free Antibacterial Strategies Enabled by Nanomaterials

Message from the Guest Editor

In this Special Issue, we aim to showcase the most recent advances in the design and application of antibacterial nanomaterials, discuss novel antibacterial strategies, and share perspectives in shaping an antibiotic-free path to treat infections. Contributions including, but not limited to, original research papers, up-to-date reviews, and perspectives of the following and related topics are invited:

- Design and fabrication of nanomaterials for antibacterial applications;
- Nanoformulations of natural antimicrobial agents;
- Metal/metal oxide-based antibacterial nanoparticles;
- Carbon-based (e.g., graphene, CNTs, etc.) antibacterial agents;
- Nanozyme for antibacterial applications;
- Surface engineering/coating for biofilm inhibition and elimination:
- Antibacterial nanomaterials used in food science and crop protection;
- Novel nanotechnologies for antibacterial applications;
- Perspectives in the safety, regulation and translation of antibacterial nanomaterials.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2022)



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About the Journal

Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery. use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciples are all key. Antibiotics is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

Editor-in-Chief

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