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Recent Progress in Antimicrobial Nanomaterials

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Message from the Guest Editor

Dear Colleagues,

This Special Issue aims to bring together the latest advances in the field of antibacterial nanomaterials and their applications in various fields. Selected contributions on recent advances in the synthesis, characterization, and applications of nanomaterials with antibacterial activity are welcomed.

Potential topics include, but are not limited to:

- Antimicrobial nanoparticles
- Antibacterial nanocoatings and nanocomposites
- Antimicrobial mechanisms
- Antimicrobial food packaging
- Adverse effects of nanomaterials
- Future perspectives for antimicrobial nanomaterials
- Role of antimicrobial nanomaterials in medicine

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Guest Editor



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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.

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