Special Issue

Development of Nanomaterials for Antimicrobial Applications

Message from the Guest Editor

Our upcoming Special Issue aims to comprehensively explore nanomaterials designed for antimicrobial purposes, emphasizing not only their diverse mechanisms but also the methodologies employed in their design and assessment. Nanoparticles and nanocomposites are at the forefront of this exploration, offering novel and efficient strategies with which to combat the challenges posed by drug-resistant microorganisms. Topics of interest for this Special Issue include the following: Innovative Design Strategies: Examining cutting-edge approaches to designing nanomaterials tailored for enhanced antimicrobial efficacy. This may include discussions on novel synthesis methods, surface modifications, and engineering strategies to optimize antimicrobial properties. Diverse Nanomaterials for Antimicrobial Applications: Highlighting a spectrum of nanomaterials and their antimicrobial potential, encompassing metals, metal oxides, carbon-based nanomaterials, and nanocomposites. Papers presenting innovative methodologies for the comprehensive assessment of nanomaterial properties are of particular interest.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

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