Special Issue

Innovative Coating Materials: New Approaches in the Fight against Microbial Pathogens and Antimicrobial Resistance

Message from the Guest Editor

Antimicrobial resistance occurs when bacteria, viruses, fungi, and parasites no longer respond to antimicrobials, making infections harder to treat and increasing the risk of disease spread, severe illness, and death. Their eradication is a key focus in healthcare. Alternatives to prescribed antimicrobial compounds are urgently needed and relevant areas of research include the development of antimicrobial surfaces that contain agents that inhibit or kill microorganisms. Such surfaces are becoming more widely investigated for possible use in various settings including clinics, industry, and even the home. In addition to medical devices, this technology can be applied to any surface where the inhibition or removal of microorganisms is required. This Special Issue will showcase new, innovative antimicrobial surfaces and their potential and efficiencies. Keywords include, but are not limited to:

- bacteria
- fungi
- viruses
- infection
- control
- antimicrobial surfaces
- antimicrobial resistances
- alternative technologies

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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Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).

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