

Recent Advances in Antimicrobial Materials

Guest Editor:

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Message from the Guest Editor

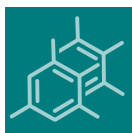
Dear Colleagues,

This Special Issue covers the latest developments and applications of antibacterial biomaterials, including simulation, mechanistic understanding, and uses of antimicrobial compounds and materials. It also intends to inspect the role of innovative approaches and provide an overview of cutting-edge research on treatments, properties, and technologies in the development of antimicrobial applications.

We invite scholars to contribute with original research articles and reviews on several pertinent topics, including but not limited to:

- Synthesis of new antimicrobial molecules and nanoparticles;
- Antimicrobial peptides;
- Antimicrobial surfaces and coatings;
- Models of activity, selectivity, and toxicity of antimicrobial agents;
- Antimicrobial polymers;
- Application for biomedical devices and food packaging;
- Computational and bioinformatics approach to the design of novel antimicrobial agents.





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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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