



Antimicrobial Nano Coatings

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Message from the Guest Editors

Surfaces are one of the most significant sources involved in the spread of microbial infections. The highest level of microbial transmission via surfaces occurs in healthcare, food preparation, and sanitary facilities but also in public space via frequently touched surfaces. Beside planktonic forms, microbial biofilms easily attach onto and colonize various surfaces. Considering the speed of transmission of microbes via surfaces, the fast elimination of contagious microbes from surfaces is key to combating microbial infections. Antimicrobial surfaces have already been used to reduce microbial pathogens on various surfaces. Silver- and copper-based microbicidal surfaces have the longest history and the widest use, but the popularity of nanomaterials and nanostructures in antimicrobial surfaces is on the rise.

This Special Issue aims to highlight current advances in the field of nanomaterial-based or nanostructured antimicrobial coatings and surfaces. We look forward to receiving your manuscripts reporting the preparation, characterization, and evaluation of antimicrobial activity, as well as mechanisms of action. Both research papers and review papers are more than welcome.





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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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