

Special Issue

New Types of Antibacterial Biocides

Message from the Guest Editor

Today, the development of new highly effective antiseptics, disinfectants, and materials that bestow antimicrobial activity, environmental safety, and relatively low toxicity is of exceptional importance for significant areas of chemistry and materials science. A separate challenge for the scientific community is the ability of microorganisms to organize themselves into biofilms, i.e., a structured community in a self-produced polymeric matrix. Thus, biofilms cause up to 80% of chronic human bacterial infections, and contribute to the development of microbial tolerance to traditional drugs and multidrug resistance.

In general, there are two main strategies for combating biofilms: preventing their formation or destroying/removing already formed biofilm. Amino acids and antimicrobial peptides, metal chelators, quorum sensing inhibitors, surfactants, and other antibiofilm agents can be effectively used at different stages of biofilm formation.

The aim of the Special Issue is to review recent research on the synthesis and application of new antibacterial biocides. Full articles, short communications, and reviews are accepted for publication in the Special Issue.

Guest Editor

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