Special Issue

Antibacterial Gels

Message from the Guest Editors

The COVID-19 pandemic has caused numerous deaths and an economic burden worldwide. Despite the huge progress in medical fields, it is crystal clear that the pandemic caused by infectious pathogens can still post severe threats to public health even in the 21st century. What makes the situation even worse is the increased cases of multiple drug-resistant pathogens, while the investment and discovery pace of new antibiotics has been slowed down due to low profit and higher approval standards for new antibiotics. Therefore, it is urgently needed to investigate and develop new materials and tools for treating existing drug-resistant pathogens and be well-prepared for future potential pandemics.

Different from small conventional antibiotics, antimicrobial gels are promising for treating infectious pathogens in terms of their tunable physicochemical properties. Cutting-edge antimicrobial gels can be engineered from the molecular level to the material level to obtain materials with good biocompatibility, excellent antibacterial activity, as well as adjustable degradability, and mechanical properties.

This Special Issue will provide the latest views in the field of antimicrobial gels.

Guest Editors

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About the Journal

Message from the Editorial Board

Gels (ISSN 2310-2861) is recently established international, open access journal on physical and chemical gel-based materials. The journal aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. General topics include but not limited to synthesis, characterization and applications of new organogels, hydrogels and ionic gels made either from low molecular weight compounds or polymers, composite and hybrid materials where a metal is by some means incorporated into the gel network, and computational studies of these materials in order to provide a better understanding of gelation mechanism. We cordially invite you to consider publishing with us and contribute with your own grain of sand to the advance in this fascinating field.

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