

Special Issue

Designing Gels for Antibacterial and Antiviral Agents

Message from the Guest Editors

Infections caused by bacteria pose one of the most serious threats to human health. In addition, a threat to human health worldwide has been posed by antibacterial-resistant bacteria (so-called “superbugs”) due to the widespread use of antibiotics. There are many clinical applications for antimicrobial gels, including wound healing. Further, antimicrobial gels are expected to stimulate new research and discoveries. To achieve progress in this field, an interdisciplinary approach is required to gain a deeper understanding of the structure of antibacterial gels and the mechanisms that underlie antimicrobial activity. Recent advances in antimicrobial gels are the focus of this Special Issue on “Designing Gels for Antibacterial and Antiviral Agents”, which covers most aspects of antimicrobial gel fabrication, characterization, and applications. It will cover a broad range of topics, including the structure and behavior of antibacterial agents and gels, the antibacterial and antiviral mechanisms of gels, tissue regeneration, and antimicrobial gel applications.

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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