Special Issue

Recent Advances in Antimicrobial Hydrogels

Message from the Guest Editors

This Special Issue on “Recent Advances in Antimicrobial Hydrogels” is dedicated to recent developments of antimicrobial gels, ranging from theoretical and fundamental aspects to fabrication, characterization, and applications. Within this context, a broad range of subjects, including the structure of antibacterial agents and gels, the antibacterial behavior of gels, the antibacterial mechanisms of gels, tissue regeneration, and applications of antibacterial gels will be discussed. Antimicrobial gels are one of the most popular dressings, and can be used in clinical applications such as wound healing, among others. Progress in this field requires an interdisciplinary effort to accomplish a more detailed understanding of the structure of antibacterial gels and antibacterial mechanisms that define the antibacterial activity. Since it is impossible to cover all aspects of antimicrobial gel science in one Issue, this Special Issue will contain only a few representative examples, illustrating the complexity of the antibacterial problem. It is hoped that the topics will stimulate new research and discoveries in the field of antimicrobial networks and gels.

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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

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