Special Issue

Antimicrobial Hydrogels

Message from the Guest Editors

Hydrogel is a kind of polymer with a three-dimensional network structure, which can keep its original structure without being dissolved after swelling. Hydrogels can be formed by the copolymerization of different hydrophilic and hydrophobic monomers. Due to their good biocompatibility, hydrogels are widely used as excellent biomedical materials, such as drug carriers, tissue scaffolds, and wound dressings which can maintain a moist environment and are useful for sustained drug delivery for wound repair and act as a barrier against exogenous bacteria. Hydrogels are used in combination with different types of antibiotics for wound dressings to accelerate wound healing. As such, there is wide interest in antibacterial hydrogels because of their dual functions of both hydrogel and antibacterial performance. Therefore, this Special Issue of *Gels*, Antimicrobial Hydrogels, serves to provide a platform for researchers to report results and findings in recent advances in antimicrobial hydrogels and antimicrobial hydrogel-based composites.

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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