Special Issue

Recent Advances in Gels Engineering for Drug Delivery

Message from the Guest Editors

Gels and Nanogels are promising drug delivery systems for different administration routes (oral, parenteral, or topical) due to their biocompatibility and biodegradability, which allow for them to modify biological properties and the pharmacokinetic profile. Advances in polymer sciences and polymer structural modifications give nanogels interesting properties, such as their responsiveness to different stimuli (pH, temperature, ionic strength, endogenous compounds, etc.), improved adhesion to biological surfaces, and improved anti-microbiological properties, among others. In addition, advances in gel manufacturing processes could improve the efficiency of the drug delivery system, potentially promoting a more realistic approach for real patient administration. We propose this Special Issue, “Recent Advances on Gels Engineering for Drug Delivery”, to contribute the latest information about the potential use of gels and nanogels to treat different diseases and to explore novel approaches, including new manufacturing and composition properties focusing on biomedical applications. Research and review manuscripts are welcome.

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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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