Special Issue

Recent Trends in Gels-Based Drug Delivery Systems

Message from the Guest Editors

Hydrogels have been of major research interest for several decades, attracting scientists in the fields of biomaterials and basic polymer chemistry. Hydrogels contain a large amount of water inside the network structures, serve as an open system capable of exchanging energy and substances with their surroundings, and therefore can exhibit responses to biomolecules and biomacromolecules. When it comes to bioapplications, especially those with drug delivery systems in mind, highly stimuli-sensitive and/or hierarchically controlled material design is required in order for efficient interactions with endogenous low levels of biomolecules. This Special Issue focuses on "Recent Trends in Gel-Based Drug Delivery Systems" and the related biosensing, theranostics, and any therapeutic applications. It aims to update our attention toward recent hydrogel-based bioapplications and discuss new directions for methodologies to design such hydrogels. We hope that this Special Issue collection will aid in a comprehensive understanding of the current state-of-the-art research and contribute to further developments to tackle new challenges in drug delivery systems.

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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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