

Special Issue

Designing Nanogels for Drug Delivery Systems

Message from the Guest Editors

The use of nanogels as versatile nanocarriers of active molecules has gained substantial interest considering that they are able to control the delivery. Nanogels are three-dimensional (3D) cross-linked gels presenting tunable porosity. Nanogels comprise various polymers of both natural and synthetic origin, and they can encapsulate protein, peptides, drugs, as well as diagnostic agents. Three main categories of nanogels have been identified as i. stimuli-responsive, ii. polymer-based, and iii. structure-based. Nanogels can avoid renal clearance, leading to a longer serum half-life due to their small particle size ranging from 20 to 250 nm; therefore, they can be applied as potent agents in various fields, i.e., drug delivery, tissue engineering, diagnosis, etc. This issue aims to illustrate the current progress and recent advancements of nanogels in drug delivery, tissue engineering, and the combination thereof. Research areas may include (but are not limited to) the following: polymeric nanogels, as well as stimuli-responsive nanogels for various therapeutic areas.

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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