Special Issue

Advances in the Development of Nanogels/Microgels for Drug Delivery

Message from the Guest Editors

A new era of pharmaceutical research is focused on novel drug delivery systems. Conventional dosage forms are mostly associated with problems such as poor bioavailability, frequent administration, adverse effects, and patient incompliance, so researchers are seeking novel carriers for drug delivery as alternatives to the traditional ones depicted in the literature. Particle size reduction is one of the successful strategies. Microgels/nanogels can offer many advantages including high water content, functionality, porosity, flexibility, versatility, tunable size, large surface area, and 3D network, allowing for the incorporation of different therapeutic agents. These unique properties present excellent opportunities for their pharmaceutical application. This Special Issue will cover all aspects related to the synthesis, development, preparation, characterization, in vitro/in vivo evaluation, and optimization of various types of microgels/nanogels for drug delivery purposes using different routes of administration (oral, dermal, transdermal, ocular, nasal, vaginal, rectal, parenteral, implantable, etc.).

Guest Editors

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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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