Special Issue

Application of Hydrogels in Therapeutics and Theranostics Delivery

Message from the Guest Editor

Hydrogels are hydrophilic, three-dimensional networks that can absorb large amounts of water or biological fluids. Hydrogels can provide spatial and temporal control over the release of various therapeutic and theranostic agents, including small-molecule drugs, genes, imaging agents, growth factors, and cells. Local administration of these hydrogels allows delivery of higher “effective” doses while enhancing therapeutic molecules’ stability, minimizing side effects. Hydrogels have proven to be highly biocompatible materials that allow for the customized design to afford sensing and therapy at the same time. However, numerous challenges need to be addressed well for successful bench to bedside translation. Thus, in this “Special Issue”, we invite researchers to contribute their current forays into this important emergent field.

Guest Editor

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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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