

Special Issue

Recent Developments in Nanocomposite Hydrogels

Message from the Guest Editors

Owing to their unique properties, such as adjustable physicochemical effects, sensitivity to external stimulus, biodegradability, biocompatibility, ease and low-cost synthesis, research addressing nanocomposite hydrogels has increased considerably in recent years. The incorporation of nanostructured fillers, including zeolite, cellulose nanofibers and nanocrystals, clay, nanoparticles and carbon nanotubes, into hydrogels has become an interesting strategy for enhancing some specific properties, particularly mechanical and hydrophilic properties, and sorption/absorption and release properties, among others. The aim of this Special Issue is to present a collection of papers focused on recent advances and developments in nanocomposite hydrogels for application in a number of fields, including food, engineering, agricultural, medicine and health area, and others. This Special Issue will cover all nanocomposite hydrogels, including nanoclay- and zeolite-based nanocomposite hydrogels, etc. All researchers working on nanocomposite hydrogels are invited to contribute their studies to this Special Issue.

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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