



gels



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Advances in Composite Gels and Their Applications

Guest Editor:

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Message from the Guest Editor

Hydrogels have been widely used in the fields of biological engineering, soft robots, flexible electronic devices and adhesives due to their good biocompatibility, stretchability and good water adsorption and retention. The strategy of composite hydrogels has been developed to endow a variety of properties due to their individual components. In particular, many advanced composite hydrogels with unique properties, such as self-healing, stimuli-responsive, excellent electrochemical properties as well as excellent mechanical properties, have been fabricated. Moreover, the applications of these composite gels include, but are not limited to, stimuli-responsive materials, water treatment materials, drug-release matrices, flexible supercapacitors and wearable electronics devices.

The Special Issue “Advances in Composite Gels and Their Applications” focuses on recent studies including the design of bio-based composite gel, polymer-nanofiber composite gels, polymer-inorganic composite gels and their applications as self-healing, shape memory, water treatment and flexible electronic devices.



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Special Issue



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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.

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