

Special Issue

Advances in Conductive Polymers and Hydrogels

Message from the Guest Editors

Hydrogels with a water-rich polymer network structure are very similar to the native tissues of humans. Recently, due to their flexibility, biocompatibility, and designability, hydrogels have been widely utilized in various areas such as tissue engineering, wearable devices, and flexible electrodes. Conductive hydrogel is a new kind of burgeoning hydrogel. There are two main solutions: utilization of conductive polymers, such as polyaniline and polypyrrole, and introduction of conductive filler into hydrogels, such as metal nanoparticles, MXene nanosheets, ionic liquids, and inorganic salts. It shows the great potential applications in the fields of personalized health monitoring, human-machine interfaces, soft robots, etc. Conductive hydrogels are also widely utilized in tissue regeneration, especially for the skin, myocardium, nerve, and bone repairs. In this Special Issue, we would like to invite researchers to contribute their current forays into this emerging field.

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Deadline for manuscript submissions

closed (31 December 2022)



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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

Prof. Dr. Esmail Jabbari

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