Special Issue

Advanced Hydrogels for Biomedical Applications

Message from the Guest Editors

Hydrogels have existed for more than half a century and are a unique class of material that possesses both solid-like and liquid-like characteristics. Nowadays, hydrogels are one of the best candidates for use in artificial biomaterials because of their high water content, biocompatibility, and resemblance to the gel-like character of the extracellular matrix (ECM). The intention of this Special Issue is to summarize the recent progress in the development of functional hydrogels and present advances in their biomedical applications, including in cell culture scaffolds for the regulation of cell behaviors (e.g., cell adhesion, proliferation, migration, and differentiation), drug release, injectable implants, bio-recognition, regenerative medicine, etc. Challenges and developmental opportunities in this attractive area will be presented and discussed.

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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