Special Issue

Smart Hydrogels: From Rational Design to Applications

Message from the Guest Editors

In the last few decades, smart hydrogels have been at the forefront of advanced materials because of their outstanding applications in sensors, programmable drug delivery, actuators, and tissue engineering. Smart hydrogels can be prepared by rational design of appropriate peptide sequences, composite material with the help of extracellular matrix (ECM) proteins, biologically suitable polymer, collagen-like peptide (CLP), etc. In addition, the self-assembly propensity of these smart hydrogels to form nanoscale architecture plays an important role in biomedical applications. It is incredibly important to cover all aspects of smart hydrogels in one issue, and this Special Issue will cover a few representative examples, also including review articles of recent findings (preferably within last 5 years) explaining the progress in this advanced field with the aim of helping scientists worldwide. Computational science related to smart hydrogels is also welcomed in this Special Issue.

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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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