

gels



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Stimuli-Responsive Biomedical Hydrogels

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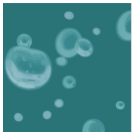
Message from the Guest Editors

Stimuli-responsive hydrogels, responding to physical (temperature, electric field, light, pressure, and magnetic field), chemical (pH and ion) or biological/biochemical stimuli, have been especially impactful, allowing for unprecedented levels of control over material properties in response to external cues. This enhanced control has enabled groundbreaking advances in healthcare, leading to more effective treatment of a vast array of diseases and improved approaches for tissue engineering and wound healing. However, this puts forward higher requirements for its polymer component design, hydrogel network cross-linking method, micro-configuration, and so on. This Special Issue on “Stimuli-Responsive Biomedical Hydrogels” is dedicated to introducing the latest developments in the synthesis, characterization, and biomedical applications of stimuli-responsive hydrogels. In this context, a wide range of topics will be discussed, including novel cross-linking mechanisms, biological effects, and biomedical applications.



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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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