



gels



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Recent Advances in Highly Stretchable and Resilient Hydrogels

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Message from the Guest Editor

Dear Colleagues,

Possessing high stretch capacities and resilient performance are essential mechanical features of hydrogels for applications in soft robotics, bionic skins, tissue engineering, artificial muscles, and sensors. To enable the stretchable and rapidly resilient hydrogels, the elements in hydrogel frameworks should be able to maintain the mechanical stability or to construct reversible rapid interaction kinetics in response to external force. This Special Issue will mainly focus on the recent advances of different potential approaches to synthesize highly stretchable and resilient hydrogels for various specific applications in, but not limited to, sensing systems, biomedicines, robotics, soft electronics, bionics, and theoretical models.

Prof. Dr. Lidong Zhang
Guest Editor



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Special Issue



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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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