Special Issue

Advances in Gel-Based Devices and Flexible Electronics

Message from the Guest Editors

A hydrogel is a network system of polymers with a hydrophilic three-dimensional network cross-linked structure which can maintain a certain shape and absorb a large amount of water. Soft and stretchable materials based on hydrogels have skin/tissue-like mechanical properties, providing new avenues for the design and manufacture of wearable devices and flexible electronics. Hydrogels have mechanical and physiological properties similar to those of various organs in the human body, and have both electrical, mechanical, and biological functions which are controllable and diverse. Using the development of fully degradable, implantable hydrogel-based flexible electronics in the human body will be a promising development direction. Although hydrogel-based flexible electronic devices have developed rapidly, many problems remain unresolved. We believe that it is time to re-examine the application of gels in flexible electronic devices to enable new developments and application directions for hydrogels. We look forward to submissions reporting new results on gel-based devices and flexible electronics. For more information, please visit: mdpi.com/si/120018

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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.

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