

Special Issue

Sustainable Application of Biomass-Based Composite Hydrogels

Message from the Guest Editors

Hydrogels, which are physically or chemically cross-linked polymer network imbibed with water, has attracted enormous attention in the fields of tissue engineering, environmental remediation, electrochemical devices and energy storage. Recently, biomass (natural polymer)-based hydrogels have attracted widespread attention due to earth abundance and sustainability and structural tunability. This Special Issue is a thorough collection of articles dealing with the preparation, and application of biomass-based hydrogels of which the authors show the processes, and mechanisms of hydrogel formation, and diverse applications of biomass hydrogels. Composite hydrogels containing synthetic polymers, inorganic particles and ionic liquids can also be included within the scope of the Special Issue. The publication of original research articles, rapid communications and reviews in this Special Issue will make an important contribution to the fundamental and advanced research into biomass-based hydrogels.

- hydrogels
- biomass
- natural polymer
- multi-function
- cellulose-based hydrogels

Guest Editors

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