





an Open Access Journal by MDPI

# Sustainable Application of Biomass-Based Composite Hydrogels

Guest Editors:

### Dr. Xiongfei Zhang

College of Chemical Engineering, Nanjing Forestry University, Nanjing 210037, China

### Dr. Jianhao Qiu

College of Chemical Engineering, Nanjing Forestry University, Nanjing 210037, China

Deadline for manuscript submissions:

closed (31 July 2023)

# **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 preapration, 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









an Open Access Journal by MDPI

# **Editor-in-Chief**

#### Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

# **Message from the Editor-in-Chief**

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. Sustainability publishes original research articles, review articles and communications, I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering and applications of sustainability-based measures and activities.

### **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

## **Contact Us**