



Biomedical Properties of Hydrogels

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Deadline for manuscript
submissions:

closed (31 March 2024)

Message from the Guest Editor

Dear Colleagues,

With water-retention capabilities, modular polymeric network structures and biocompatibility, hydrogels have received significant attention as extracellular matrix simulators for biomedical applications. Additionally, the engineering between composition and network cross-linkers can provide stimuli-responsive triggers with potential therapeutic properties, which can cover applications from cancer therapy to tissue-engineering application. The primary aim of this Special Issue on “Biomedical Properties of Hydrogels” is two-fold: 1) demonstration of distinct hydrogels types; 2) identification of the biomedical properties of distinct hydrogel types. Ultimately, this Special Issue may discuss the future research direction of hydrogels, in particular theranostics hydrogels, and the development of self-healing and conductive hydrogels diagnostics and therapy of diseases.

- hydrogels
- extracellular matrix simulators
- self-healing
- conductive hydrogels
- theranostics hydrogels





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Message from the Editor-in-Chief

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