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Biopolymer Gels as Smart Drug Delivery and Theranostic Systems

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Message from the Guest Editors

Dear Colleagues,

Biopolymers are a class of polymers generated from plants and animals that perform a wide range of functions. In recent years, biopolymer-hydrogel-based research has grown in importance, drawing significant attention in the field of polymer chemistry regarding its prospective use for drug delivery platforms and theranostic applications. Biocompatibility and biodegradability are crucial requirements for biomedical applications.

This Special Issue theme focuses on the advancement of biopolymer-based hydrogel technology, highlighting its accomplishments in various fields such as drug delivery and theranostics, as well as emphasizing new challenges and opportunities. The research community is invited to submit original research articles, communications, and review papers on emerging strategies in the design, development, and applications of biopolymer-based hydrogel materials in a wide range of fields, including drug delivery, theranostics, and other relevant biomedical fields.

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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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