Special Issue

Biopolymer Gel-Assisted Synthesis of Particles for Biomedical Applications (2nd Edition)

Message from the Guest Editor

Today, we know that biopolymer gels, as cross-linked systems, are extensively used in various areas of biomedicine and pharmacotherapy. Depending on their chemical structure and polarity, biomacromolecular-based gels generally contain functional domains that can act as reactive sites for interactions with ions and generate functional hybrid particles. Biopolymer gels, are also able to change the shape and morphology of particles and tailor their biofunctionality. Drug-loaded biocompatible gels are extensively explored for the synthesis of particles that can lead to cancer therapy and gradual drug release in different organs. The investigation of the role of biopolymer-based gels in the synthesis of inorganic particles and crystals is, therefore, important for introducing cost-effective, simple, and convenient strategies regarding biomedical products. In this Special Issue, I welcome original research papers, as well as reviews, on the synthesis of biopolymer–inorganic hybrid particles. For more information, please visit: mdpi.com/si/110705.

Guest Editor

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About the Journal

Message from the Editorial Board

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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