Special Issue

Hydrogels for Therapeutic Delivery: Current Developments and Future Directions

Message from the Guest Editors

We would like to invite you to contribute a manuscript to a Special Issue of Gels entitled “Hydrogels for Therapeutic Delivery: Current Developments and Future Directions”. The delivery of therapeutic agents has witnessed remarkable advancements in recent years, with hydrogels emerging as an intriguing biomaterial. Hydrogels are smart, environmentally sensitive versatile platforms that offer high water content, biocompatibility and the capacity to protect drugs from degradation. They are three-dimensional polymeric networks capable of retaining large amounts of water, allowing for effective solubilization of encapsulated hydrophobic drugs. Their biocompatibility ensures minimal toxicity, while they can be designed to be degradable and responsive to specific stimuli that allow controlled release of therapeutic agents. In this Special Issue, advances in the design of hydrogels as drug delivery systems will be presented, focusing on hydrogel–drug interactions and mechanisms that trigger controlled release and targeted delivery for clinical applications.

Guest Editors

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Deadline for manuscript submissions

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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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