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Designing Hydrogels for Sustained Delivery of Therapeutic Agents

Guest Editor:

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Message from the Guest Editor

Recent years have witnessed a significant leap in the development of advanced drug delivery systems, revolutionizing therapeutic interventions. Hydrogels, in particular, have emerged as versatile platforms offering unique properties ideal for the sustained and controlled release of therapeutic agents. This Special Issue aims to spotlight the latest breakthroughs in hydrogel design for therapeutic agent delivery, underscoring their potential impact on healthcare, including disease therapy, tissue engineering, and regenerative medicine.

We welcome contributions of cutting-edge research articles, reviews, and perspectives covering a wide range of topics related to hydrogel-based drug delivery systems. This Special Issue provides a collaborative platform for researchers and practitioners to exchange ideas, fostering progress in the field of hydrogel-based drug delivery.

Topics of interest include, but are not limited to, the following:

- Smart hydrogel formulations;
- Nanogels and nanocomposite hydrogels;
- Physicochemical properties of hydrogels;
- Biomedical applications of hydrogels;
- Regulatory and commercial perspectives.



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Special Issue



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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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