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Functional Gels Applied in Drug Delivery

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Deadline for manuscript submissions:
closed (30 April 2025)

Message from the Guest Editors

Functional gel materials (i.e., natural and synthetic polymers) have risen as one of the best new drug delivery systems, and support the controlled release of drugs. Furthermore, functional gels materials are currently applied to agriculture, medicine and health, always taking environmental safety into account.

The development of the best-performing functional gels applied in drug delivery systems requires multidisciplinary knowledge dealing with raw material chemistry, physical and chemical characterization and biosafety.

Therefore, this Special Issue intends to explore all functional drug delivery systems research concerning gels, and calls for manuscripts that can enhance the related fields regarding:

- Innovative polymers and biopolymers, as gels, useful in different functional drug delivery systems, from solutions to emulsions.
- New formulations, focusing on the interaction of drugs and carriers and the rheological, structural, and dynamic behavior depending on the quantity of compounds and conditions.
- Research that enhances sustainability, human health and safety by studying new eco-friendly pathways in gel formulation.

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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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