

Special Issue

Advanced Soft Gels with Enhanced Functionality for Biomedical and Additive Manufacturing Applications

Message from the Guest Editors

Soft gels, also known as hydrogels, microgels, and nanogels, are on the rise in the biomedical field. Soft gels, with their three-dimensional network and high water content, are not prone to disintegration or dissolution in excess water. They can be combined with cells to create two or three-dimensional scaffolds, eliminating the need for complicated fabrication processes or surgical procedures. Moreover, soft gels offer tunable mechanical properties, biodegradability, and biocompatibility, making them a beacon of hope for biomedical applications such as drug delivery, biosensors, 3D cell culture, tissue engineering, 3D bioprinting, and wound healing. This special issue, a platform to showcase the latest advancements in soft gel technology, holds the potential to influence the field significantly. It encompasses natural, synthetic, and derivative gels applicable to advanced manufacturing techniques, drug delivery, and tissue engineering. We eagerly await submissions that delve into essential aspects of hydrogels, such as gel synthesis and development, characterization, biocompatibility, and practical application research.

Guest Editors

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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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