Special Issue

3D and 4D Printing of Hydrogels for Tissue Engineering

Message from the Guest Editors

When it comes down to a material with desired properties in tissue engineering, hydrogels exceedingly outperform other candidates in this field. Despite the great advances in the hydrogels' physical and chemical properties, one big hurdle for their clinical translation is the inferiority/absence of proficient manufacturing processes. In this respect, 3D/4D bioprinting is known as a manufacturing process with great potential. Bioprinting is an additive manufacturing process through which functional living constructs with desired architectural complexity are produced by the precise deposition of hydrogels, living cells, and biological factors. This Special Issue, covers advances and novel methodologies in 3D/4D bioprinting of bioactive hydrogels for tissue engineering application. Notably, this issue also covers pure theoretical modeling whose results advances the respected field. We cordially invite you to submit your original research article or review paper to this Special Issue by the 15 October 2022. For more information, please visit: mdpi.com/si/113579

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Deadline for manuscript submissions

closed (28 February 2023)

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About the Journal

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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