

Special Issue

Hydrogels Used for Additive Manufacturing

Message from the Guest Editors

The unique properties and specific structure of hydrogels make them suitable for a multitude of applications, including biomedicine, in which they play a primary role. Moreover, their applications are expanding thanks to the possibilities offered by additive manufacturing technology, such as in the manufacture of biosensors, where high accuracy and miniaturization are essential. These production methods offer many benefits over conventional manufacturing processes. The variety of materials that can be used to create hydrogels impacts their diversity. Many natural and synthetic polymers have the potential to produce stimuli-responsive and -non-responsive hydrogels. However, they have different characteristics that require appropriate treatment, as well as specific methods for processing and the optimization of processing parameters. This Special Issue on “Hydrogels Used for Additive Manufacturing” aims to collect high-quality research and review articles on advances in additive hydrogel manufacturing, including preparation methods, material characteristics, and the selection of techniques and process parameters, as well as prospective applications.

Guest Editors

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Deadline for manuscript submissions

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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.

Editor-in-Chief

Prof. Dr. Esmail Jabbari

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