

Special Issue

3D Printing of Gel-Based Materials

Message from the Guest Editors

Three-dimensional printing, also known as additive manufacturing (AM), is defined as the process of building blocks layer-upon-layer, making it different from subtractive technologies. In recent years, this area has been blooming and has been applied to different applications such as medicine, aeronautics, automotive applications, etc. Some advantages of 3D printing over traditional methods are the opportunity to manufacture complex architectures and to produce less waste as well as to reduce production time. Different materials can be used: metals, ceramics, or polymers. However, depending on the target, it is more suitable to use one type of material over another. In the case of soft materials, the best choice by far is the use of polymers and special gel-based materials, which can be resins, silicones, or hydrogels. The aim of the present Special Issue is to advance the state of the art of the synthesis of gel-based materials for different purposes.

Guest Editors

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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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