

Special Issue

3D Printing in Bio-Medical Applications

Message from the Guest Editor

3D printing additive manufacturing has now attracted the attention of biomedical engineers. There are a variety of applications for additive manufacturing technology available to surgeons at this moment. This Special Issue aims to understand the basic concept of 3D bioprinting as a tool for producing a 3D structure combining living cells and biomaterials and controlling cell proliferation, attachment and migration within 3D structures. We also consider tissue engineering developed on a widespread basis in the fields of regeneration, restoration, replacement of defective or injured functional living organs and tissues. We accept manuscripts on 3D printing of scaled models for preoperative planning based prosthetics, custom implants and biocompatible scaffolds. We also consider manuscripts on 3D printing application to improve surgical and medical education, by using simulation models and using its potential to replicate complex anatomy by employing distinct materials that mimic the characteristics of the native tissue in an effort to increase patient safety through repetition of common procedures.

- 3D printing
- additive manufacturing
- biomedical devices

Guest Editor

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Deadline for manuscript submissions

closed (20 August 2022)



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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