Special Issue

3D Printing and Biomaterials for Biomedical Application

Message from the Guest Editors

The field of 3D printing or additive manufacturing has considerably evolved in the last five years, with a special focus on biomedical use. The healthcare system has been revolutionized by the manufacture of various prostheses and surgical instruments, and the bioprinting of tissue and living scaffolds. In this context, this Special Issue will be dedicated to the recent advancements in biomaterial 3D printing for biomedical applications. Polymers, hydrogels, or bio-inks have the ability to rapidly induce 3D structures with adequate mechanical stability, biocompatibility, biodegradability (if needed), biomimetic character, and potential drug release control of various biological active molecules. The following topics are considered: 3D-printed biomaterials by FDM/FFF, biomaterials processing by SLA/SLS/DLP, bio-inks, and 3D-bioprinted materials, advanced on organ on-a-chip by 3D printing.

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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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