



## 3D and 4D Printing of Polymers for Tissue Engineering Applications

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### Message from the Guest Editors

3D printing of bionic scaffolds, cells, and bioactive compounds has flourished over the past ten years. The 3D printing technique has developed fast, including micro-extrusion bioprinting, inkjet bioprinting, laser-assisted bioprinting, and scaffold-free spheroid-based bioprinting, which offers great promise in the field of regenerative medicine and drug delivery. Meanwhile, new functional bio-inks and materials have been developed. Furthermore, the 3D bioprinting of stem cells, such as human-induced pluripotent stem cells, is driving a paradigm shift in tissue regeneration and the modeling of human disease, representing an unlimited cell source for tissue regeneration and the study of human disease. Thus, an in-depth understanding of 3D printing processes and physical, biological, and/or digital cues is highly relevant to the performance and development of 3D bio-printed products. Both original contributions and comprehensive reviews are welcome.





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