Special Issue

Advanced 3D Printing Biomaterials

Message from the Guest Editors

Three-dimensional printing provides unprecedented opportunities for fabricating complex biomedical devices such as implants, scaffolds, and regenerative medicines. The advantages of using 3D printing are numerous, including the ability to create customized geometries, interconnected porous structures, functionally graded materials, co-culture of multiple cells, and incorporated medicines. Recently, many 3D printing approaches have been further developed to tackle the limitations in tissue regeneration. Further, many novel biomaterials have been developed to enable their use with 3D printing methods. The aim of this Special Issue is to discuss advanced 3D printing biomaterials including but not limited to metals, ceramics, polymers, and their composites. Both research and review articles focusing on 3D printing in biomedical applications are welcome.

Guest Editors

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Dr. Youwen Yang

Dr. Wei Xu

Deadline for manuscript submissions

closed (31 May 2025)

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About the Journal

Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the *Journal of Functional Biomaterials* (*JFB*) is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. *JFB* seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Pankaj Vadgama
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