

Special Issue

Advances in 3D Printing for Micro- and Nanoscale Biomedical Applications

Message from the Guest Editors

The rapid evolution of 3D printing technologies is unlocking new possibilities at the micro- and nanoscale in many areas of science and engineering. This Special Issue of *Micromachines* focuses on the expanding frontiers of 3D printing in biomedical and biological engineering, with particular emphasis on microscaled medical devices, diagnostics, analytical systems, drug delivery systems, and related applications in biology and physics. With fabrication techniques becoming more precise and materials more versatile, 3D printing now offers unprecedented control over complex geometries and functional architectures at the microscale—enabling innovation in tissue engineering, minimally invasive therapeutics, lab-on-a-chip systems, and personalized medicine.

We welcome original research articles and reviews. Submissions may cover novel printing strategies, biocompatible materials, hybrid fabrication techniques, and the integration of 3D printing with sensing, actuation, or bio-interfacing components, providing a platform for interdisciplinary insights that will shape the next generation of additive manufacturing technologies.

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