

Special Issue

3D Printing in Biomedicine

Message from the Guest Editors

3D printing, also known as additive manufacturing, has become the forefront of research in biomedical fields. 3D printing enables fabrication of patient specific devices and tissue constructs, making attractive, alternative therapeutic solutions for medical applications. This manufacturing technology is currently used in large varieties of medical applications including dentistry, anatomical models, medical devices, tissue engineering scaffolds/models, and drug formulation. 3D bioprinting, refers to printing living cells and biomaterials, has enabled highly-controlled assembly of cell-laden hydrogels as well as cell suspensions and spheroids as “bioinks”. There is a growing demand to develop novel printable biomaterials and bioinks to achieve desired properties such as printability and end-use properties (biomechanics, degradation, bioactivity, etc.). Our topics includes development of novel (bio)printing technologies and open source (bio)printers, design and utilization of printable biomaterials and bioinks, development of imaging technologies and software for (bio)printing, medical applications of 3D printing, regulatory issues and potential solutions.

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Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.9.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

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