Special Issue

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

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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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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