

Special Issue

Polymeric Materials for Bone Tissue Engineering

Message from the Guest Editor

Although bone and associated tissues possess certain healing and regeneration capacities, large segmental bone defects cannot be accomplished without supporting treatment. Since the concept of “tissue engineering” was proposed in 1987 to facilitate, improve, or replace biological tissues, more and more bone tissue engineering applications have been developed. Through providing biomimic scaffolds for cell adhesion and proliferation and biological signals to guide cell differentiation, mineral tissue can form to heal critical-sized bone defects. Regarding scaffold materials, natural and synthetic polymers and their composites are more favorable than others because of their biodegradability, adjustable mechanical property, biocompatibility, and versatile microstructure. In addition, polymers possess highly flexible design capabilities, so they can be easily tailored for specific requirements by controlling their chemical composition and structure.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2022)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



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Message from the Editor-in-Chief

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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