

Special Issue

Functional Biomaterials for Bone Tissue Engineering

Message from the Guest Editors

Bone diseases such as osteoporosis, bone cancer, or osteoarthritis—the progression of which increases subchondral bone loss—are major causes of bone defects. Tissue engineering is an efficient alternative for treating such defects. This approach employs the combination of biomaterials, cells, and bioactive agents to promote bone regeneration. To date, a wide range of synthetic and natural biopolymers and biocomposite materials have emerged to induce the formation of bone constructs with the biochemical and mechanical properties of native tissue. The aim of this Special Issue is to highlight the emerging materials developed to recreate the microenvironments present in native bone. Additionally, special attention is given to scaffold designs, fabrication methods such as 3D printing, and material–cell interactions, which are of great importance to the structure and functionality of engineered bone tissue.

Guest Editors

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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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