

Special Issue

Functional Biodegradable Polymeric Systems for Tissue Regeneration

Message from the Guest Editors

Tissue repair and regeneration is one of the major challenges of these days. Biodegradable polymers play a important role in tissue engineering. Their tunable degradation times, and physical, chemical, electrical and mechanical properties, make it possible to design advanced functional 3D scaffolds to regenerate different tissues. The combination of biodegradable polymers with nano- and micro- fillers make even wider the possibility of getting new advanced cell substrates for effective tissue regeneration. Moreover, advanced processing techniques and the incorporations of biologics or drug delivery might boost biodegradable polymeric systems in this field. This Special Issue aims to present a collection of original research papers and state-of-the-art reviews that focus on advanced functional polymeric systems for applications in tissue engineering. Topic of interest include:

- Development of functional biodegradable polymeric substrates
- Development of electroactive biodegradable polymeric systems
- Development of nano- and micro- structured biodegradable composites
- Fabrication of functional scaffolds for bone and neural tissue regeneration

Guest Editors

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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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