

Special Issue

Advances in Polymers and Polymer Composites for Tissue Engineering

Message from the Guest Editor

Polymers and polymer composites have been evolving into one of the most important classes of materials in tissue engineering, enabling technological advancements in the field by providing flexibility in the tailoring of the morphology (from fibres to hydrogels) and finetuning the material properties to meet the requirements for each of the potential applications, such as scaffolds to support tissue growth or particles as carriers in bioreactors. Both the morphological and the biochemical properties of the polymers influence cell adherence, growth and proliferation, oxygen, and nutrient supply, and the in vitro and in vivo development of tissue with phenotypes that are similar to native tissues. Additionally, conductivity is also important in the development of electrically responsive tissues such as cardiac, muscle or nerve tissues. The aim of this Special Issue is to capture the advances in the development of polymers and polymer composites to enable the development and scaling-up of tissue engineering technologies.

Guest Editor

Dr. Stella Georgiadou

Department of Chemical Engineering, Loughborough University,
Loughborough LE113TU, UK

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Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

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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

Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für Polymermaterialien und Polymertechnologie, Universität Potsdam, Geiselbergstraße 69, 14476 Potsdam-Golm, Germany

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