



## Advances in Polymers and Polymer Composites for Tissue Engineering

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### 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.





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