

## Special Issue

# Polymers and Composites for Biomedical Applications

### Message from the Guest Editor

Currently, polymers and composites with a wide range of properties are considered ideal matrices for the design of drug delivery systems and tissue-engineered scaffolds and one of the cornerstones for the advancement of biomedical materials.

The main objective of this Special Issue is to present the latest research advances by researchers in utilizing polymers and composites to overcome challenges in biomedical applications. This Special Issue welcomes articles and reviews describing multidisciplinary research efforts in the synthesis or use of polymers and composites for advanced long-acting sustained and controlled release, immunomodulation, targeted drug delivery, smart response, nanotechnology, micropatterning, microfluidics, and other technologies used in pharmaceutical and biomedical fields. We are also open to hybridization of polymers with mesoporous bioceramics through 3D printing and light curing to form 3D porous scaffolds or minimally invasive injectable materials, such as hydrogels or microspheres, which can be well matched to the shape of defective tissues, as well as engineered to achieve specific biological effects on cell and tissue regeneration effects.

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### Guest Editor

Dr. Weikang Xu

Institute of Biological and Medical Engineering, Guangdong Academy of Sciences, Guangzhou, China

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### Deadline for manuscript submissions

30 September 2025



## Polymers

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## About the Journal

### 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 4.7.

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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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