



Polymers for Biomedical Engineering Applications

Guest Editor:

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Message from the Guest Editor

Polymers, as the most versatile and promising class of biomaterials, have garnered significant attention due to their unique mechanical, physical, chemical, and biological properties, enabling their widespread use in various medical devices and therapies. This Special Issue aims to showcase the synthesis and characterization of novel polymeric biomaterials, exploring their fundamental mechanisms, properties, and processing techniques. It encompasses a broad spectrum of topics, from developing biodegradable and non-biodegradable polymers for tissue engineering scaffolds, drug delivery systems, and medical device fabrication to applying smart polymers responsive to external stimuli for advanced therapies.

Contributions in the form of original research articles and reviews are welcomed, addressing the latest innovations in the design, fabrication, and biomedical applications of advanced functional polymeric materials. This Special Issue aims to provide a comprehensive overview of state-of-the-art research and foster interdisciplinary collaboration, thereby accelerating the translation of polymeric biomaterials into clinical practice.





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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 5.0.

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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