Special Issue

Polymer Membranes and Functional Biomaterials for Biomedical Applications

Message from the Guest Editor

This Special Issue aims to highlight recent advances in both natural and synthetic polymer-based membranes and related biomaterials for biomedical applications. We welcome original research articles, reviews, and communications on the design, fabrication, characterization, functionalization, and clinical translation of biomaterials derived from natural polymers, such as silk fibroin, cellulose, collagen, chitosan, gelatin, and alginate, as well as synthetic polymers, including polycaprolactone (PCL), polylactic acid (PLA), poly(lactic-co-glycolic acid) (PLGA), polyethylene glycol (PEG), polyurethane (PU), poly(vinylidene fluoride) (PVDF), and their composites. Topics include membranes, hydrogels, scaffolds, nanofibrous systems, films, and multifunctional biomaterials for drug delivery, tissue engineering, wound healing, biosensing, antimicrobial therapies, regenerative medicine, and precision healthcare. Contributions involving advanced manufacturing, nanotechnology, biofabrication, stimuli-responsive materials, surface engineering, and translational biomedical applications are particularly encouraged.

Guest Editor

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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 5.8.

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

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