Special Issue

Advanced Polymer-Based Materials for Membrane Technology

Message from the Guest Editors

The upcoming Special Issue of Polymers, titled "Advanced Polymer-Based Materials for Membrane Technology," presents the latest advancements in polymer-based membranes. Focus is placed on both natural and synthetic polymers, polymer composites, and the synthesis of new materials with enhanced biocompatibility and functionality.

The Special Issue highlights innovative structures such as block copolymers, composite and functionalized membranes, as well as modern fabrication techniques like phase inversion, electrospinning, and 3D printing. Electrospinning is specifically addressed as a surface engineering method with significant potential in biomedical applications. The scope includes applications in sensors, biomedical implants, and drug delivery systems. Particular attention is given to polymers such as PDMS, PVP, PLL, PAA, and others, known for their biocompatibility, flexibility, and controllable permeability. This Special Issue aims to promote scientific and technological progress through collaboration between academia and industry and to accelerate the practical implementation of polymer membranes in real-world applications.

Guest Editors

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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.

Editor-in-Chief

Prof. Dr. Alexander Böker
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