Special Issue

Recent Trends in Polymer Membranes: Fabrication Technique, Characterization, Functionalization, and Applications in Environmental Science

Message from the Guest Editors

Traditional polymer membranes have been widely used for water purification, but they are mostly limited by low selectivity, solution fluxes and fouling issues. In addition, some impurities and biological materials would aggregate on the surface or in the pores of the fabricated membranes, causing very poor selectivity, low water purification ability, reduced resilience, and increased energy consumption. The functionalization of polymer membranes with suitable chemicals, nanoparticles, and 2D graphene-like materials exhibits the possibility to create functional antifouling and antibacterial membrane materials. Therefore, in this Special Issue of *Polymers* we would like to collect contributions that focus on (but are not limited to) the design, fabrication, structural and functional regulation, as well as application of various polymeric membranes in boosting the utilization of membrane materials in environmental science. Submissions in the form of full-length articles, communications, and reviews are invited.

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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 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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