Special Issue

Advanced Polymeric Membranes for Separation

Message from the Guest Editors

It is well known that more than 90% of water in the world comprises salty water and only about 2.5% could be used for human consumption; among that 2.5%, most water resources are polluted by various industrial dyes, toxic metallic ions, drugs, pesticides, bacteria, and other aromatic organic chemicals. Polymeric membranes provide a potential way to treat these pollutants in wastewater to obtain cleaning drinking water. 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 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.

Guest Editors

Dr. Pengfei Qi

College of Materials Science and Engineering, Qingdao University, Qingdao 266071, China

Dr. Yan Wang

College of Chemistry and Chemical Engineering, Qingdao University, Qingdao 266071, China

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Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers

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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 4.9.

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
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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