Special Issue

Polymeric Membranes for Advanced Applications

Message from the Guest Editor

Polymer membranes represent over 80% of the filtration membrane market due to lower production costs and easier processing. Placed at the interface between two media (liquid-liquid, gas-gas, liquid-gas), membranes have benefited from numerous concomitant innovation cycles in recent years, both from the point of view of the membrane material and of the filtration process. To the polymers conventionally found in commercial membranes, such as, cellulose acetate, polysulfone, polyether sulfone, polyacrylonitrile, polyethylene, polypropylene, poly(vinyl chloride), poly(tetrafluoroethylene), or poly(vinylidene fluoride), has been added a wide variety of new polymers with functionalities and/or controlled architecture. The almost infinite possibilities of structural variation are leading to the emergence of a new generation of membranes that can have an impact in all the key sectors of tomorrow (environment, health, energy, etc.). The objective of this special issue is to highlight work on the synthesis and characterization of new polymers for membrane applications, new ways of manufacturing membranes and their use in advanced filtration techniques.

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 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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