



*membranes*



*Special Issue Reprint*

## Gas Transport in Glassy Polymers

[www.mdpi.com/books/reprint/3627](http://www.mdpi.com/books/reprint/3627)

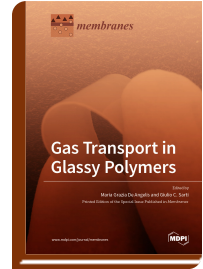
Edited by

Giulio C. Sarti

Maria Grazia De Angelis

ISBN 978-3-0365-0212-0 (Hardback)

ISBN 978-3-0365-0213-7 (PDF)



This Special Issue of *Membranes* focuses on several new aspects of fluid transport in glassy polymers, with application in relevant membrane separations such as gas purification, VOC removal and CO<sub>2</sub> capture. In particular, the focus lies on novel experimental techniques, and detailed characterization of specific phenomena like polar and multicomponent interactions during transport. The properties of novel materials, such as mixed matrix membranes based on glassy polymers and different selective fillers, are also presented. A critical review of existing modeling approaches to describe the sorption and transport in glassy polymers suitable for membrane separations is provided, including both macroscopic and atomistic models, and relying both on the standard solution–diffusion process and on the facilitated transport mechanism.



Order Your Print Copy  
You can order print copies at  
[www.mdpi.com/books/reprint/3627](http://www.mdpi.com/books/reprint/3627)

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



### **Open Access**

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



### **Author Focus**

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



### **High Quality & Rapid Publication**

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



### **High Visibility**

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



### **Print on Demand and Multiple Formats**

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.