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Gas Transport in Glassy Polymers

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Deadline for manuscript
submissions:

closed (15 April 2019)

Message from the Guest Editors

We warmly invite you to submit your original work or review article to this Special Issue of “Gas Transport in Glassy Polymers”. This Issue is devoted to fundamental analysis of fluid sorption, diffusion, and permeation in glassy polymers suitable for the above mentioned applications (e.g. fluid separation, carbon capture, water purification, energy production and storage, biological applications, sensors, etc.). Topics of interest include the experimental analysis of fundamental aspects of sorption and transport in glassy materials, such as glass transition, ageing, thin films, nanoconfinement, plasticization, swelling, competitive sorption, and stress effects. We will also welcome modeling works presenting macroscopic, atomistic, mesoscopic, or multiscale approaches that describe sorption and transport in glassy matrices.

keywords

- membranes
- glassy polymers
- gas transport
- separation
- sorption
- models
- non equilibrium
- permeation
- diffusion
- glass transition
- ageing
- plasticization



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Special Issue



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Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375).

Membranes is an international, peer-reviewed open access journal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

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