



Gas Transport Behavior of Polymer Films

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Message from the Guest Editors

It is well known that polymers have become key materials for packaging applications, especially in the field of food packaging. In contrast to glass or metal packaging materials, plastic packaging is permeable to molecules such as gas, water vapor, and organic vapor, as well as the aromas, flavors, and additives that are present in food. Knowledge of the permeation behavior, together with the solution and diffusion of such molecules throughout the polymer films is of crucial importance. The Special Issue aims to collect and provide an overview on the state-of-the-art of the barrier behavior of polymers that are used for packaging applications. It would present an overview of novel polymers, with focussed attention on their barrier performances in order to establish a structure–property relationship. The mechanisms and pathways of molecules' transport behavior throughout polymer films will be taken into account. Research papers, as well as reviews, are welcome.





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