



Gas Transport Behavior of Polymer Films

Guest Editors:

Dr. Valentina Siracusa

Department of Chemical
Sciences, Università degli Studi di
Catania, 95125 Catania, Italy

Prof. Dr. Carlo Ingrao

Department of Economics,
University of Foggia, Via Romolo
Caggese, 1-71121 Foggia, Italy

Deadline for manuscript
submissions:

closed (31 October 2019)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alexander Böker

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

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 5.0.

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (*Polymer Science*) / CiteScore - Q1 (*Polymers and Plastics*)

Contact Us

Polymers Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/polymers
polymers@mdpi.com
[X@Polymers_MDPI](https://twitter.com/Polymers_MDPI)