Special Issue

Membranes for Carbon Dioxide Separation

Message from the Guest Editor

Climate change mitigation, in the short and long term, makes necessary the development of alternative approaches in energy-related processes. In this context, membrane operations for CO2 separation are intensively being explored due to the fundamental engineering and economic advantages over conventional industrial processes. In line with the increasing attention that membranes have gained in the last few decades, the present Special Issue reports on the most important and latest fundamental and technological advances in CO2 separation processes using membranes under the three main approaches under study: i) sieve membranes, ii) non-dispersive absorption using porous membranes; and (iii) supported liquid membranes.

This Special Issue, "Membranes for Carbon Dioxide Separation", is open to manuscripts focused on polymeric, inorganic and mixed matrix membranes, as well as CO2-facilitated transport membranes and hollow fiber gas–liquid membrane contactors.

Guest Editor

Dr. Jonathan Albo

Chemical and Biomolecular Department, Universidad de Cantabria, Santander, Spain

Deadline for manuscript submissions

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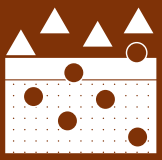
Membranes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
membranes@mdpi.com

mdpi.com/journal/membranes



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About the Journal

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 accessjournal 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.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
School of Chemistry, The University of Melbourne, Melbourne, VIC 3010, Australia

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