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Development of Green Membranes

Guest Editor:

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Deadline for manuscript submissions:
closed (30 October 2021)

Message from the Guest Editor

Dear Colleagues,

While the membrane market displays insolent double-digit annual growth, green membranes have attracted increasing interest in the last decade. Traditionally, polymeric membranes use synthetic polymers originating from oil (PES, PVDF, PSU, etc.) and toxic solvents such as NMP, DMF, DMAc, etc. which can provoke significant environmental impacts. In this context, the development of a new generation of sustainable and porous filtration membranes using polymers from biomass and/or less toxic solvent has become a crucial issue these last few years. Of course, special attention also has sto be brought to membrane performances compared to those of current membranes, such a permeability, selectivity, fouling properties, and aging.

This Special Issue aims to cover the latest developments and innovations regarding the development of sustainable membranes. Contributions can involve the development of membranes from biopolymers, the use of alternative solvents in dope solution or other new insights in the field of green membranes.

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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 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.

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