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Membrane Biofouling Mitigation: From Fundamental Concepts to Applicative Solutions

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Deadline for manuscript submissions:

closed (20 June 2022)

Message from the Guest Editor

Dear Colleagues,

The editorial board of *Membranes* cordially invites you to submit an article to a Special Issue on "Membrane Biofouling Mitigation: From Fundamental Concepts to Applicative Solutions". Bacteria seldom live and grow as single cells; rather, they usually live in biofilms—self-produced matrices of extracellular polymeric substances, comprising mainly polysaccharides, proteins, and DNA. In water and wastewater treatment processes, bacterial biofilms dramatically reduce the performance of the various treatment units in a process termed "biofouling". This Special Issue of the *Membranes* journal will focus on the development of microbial biofilms on membranes and on their effects on membrane performance. Articles for this interdisciplinary Special Issue should focus on either the fundamental or the applicative aspects of membrane biofouling, including, most prominently, the interactions between the various components of the biofouling layers and the membrane, the mechanisms underlying membrane biofouling, and biofouling control strategies.



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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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