

Special Issue

Gravity Driven Membrane (GDM) Filtration: Fundamentals to Application

Message from the Guest Editors

Gravity Driven Membrane (GDM) filtration has emerged in the past decade as novel unit operation for water and wastewater treatment/reuse. Valorising instead of preventing biofilm growth on the surface of ultrafiltration membranes enables stable permeate flux production and improvements in biological stability of the treated permeate. GDM technology is now applied in a variety of different applications from reverse osmosis (RO) pre-treatment of seawater, decentralised graywater recycling and treatment of surface water for potable use. GDM research elucidated fundamental insights into the structure and function of membrane-based biofilms, which created translational relevance for best practice approaches to manage biofilms in conventional membrane and water engineering systems (e.g., cooling towers, water distribution networks). The purpose of the special issue in *"Gravity Driven Membrane Filtration: Fundamentals to Application"* seeks to highlight the continued relevance of GDM filtration for basic research and their ubiquitous application.

Guest Editors

Prof. Dr. Johannes Vrouwenvelder

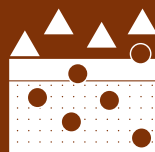
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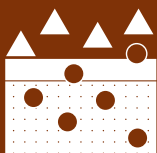


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Message from the Editor-in-Chief

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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