

Fouling and Cleaning in Membrane Processes, Volume II

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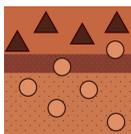
Deadline for manuscript
submissions:

closed (20 March 2020)

Message from the Guest Editors

Fouling is the growth and/or accumulation of material on the exterior or interior surfaces of a membrane. Fouling presents the largest challenge towards a more widespread use of membrane separation, a potentially energy- and cost-efficient separation operation, in a broad range of industrial sectors. Fouling leads to flux decline, increased energy consumption, impaired product quality, shortened membrane lifetime, and increased operating costs. The problem of fouling is a long-standing, chronic challenge which is unlikely to be eliminated and leads to frequent equipment shut-down and cleaning. The removal or cleaning of fouling layers from membranes is, therefore, critically important to restore equipment sterility and performance. Cleaning processes are often a major contributor to the water, energy, and chemical footprint of many industries. Improving the effectiveness of cleaning is key to reduce financial and environmental penalties. This Special Issue is dedicated to recent advances and new research trends in investigation and characterization techniques applicable to fouling and cleaning of membrane processes.





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Message from the Editor-in-Chief

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