

Special Issue

Membrane Fouling Characteristics and Mitigation during Wastewater Treatment

Message from the Guest Editor

Maximizing the energy-profitable treatment of wastewater is of significance to achieve energy-neutral operation for wastewater treatment plants. Direct membrane filtration technology has been considered an effective way of removing pollutants for achieving an energy-recovering process, but its application is restrained by severe membrane fouling issues. Thus, it is essential to identify the substances in wastewater treatment that are responsible for membrane fouling and determine efficient and cost-effective fouling mitigation strategies. However, the organic compositions of wastewater are much more complex than those of surface water, and so far, the main foulants responsible for membrane fouling in the wastewater treatment process need to be further explored. In this Special Issue, we invite authors to share their research on a wide range of membrane fouling research (experimental, analysis methods, modeling) and antifouling methods.

Guest Editor

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Message from the Editor-in-Chief

Pollutants is a multidisciplinary, peer-reviewed, open-access journal of all aspects of environmental pollution published quarterly online by MDPI. It covers Environmental Sciences and Engineering, Environmental Systems, Water Resources, Environmental Economics and Policy, Environmental Health, etc. It publishes reviews, research articles, communications, and technical notes. Papers taking a holistic approach among multiple temporal and spatial scales are especially welcome.

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