Special Issue

Membrane Fouling and Membrane Modification for Wastewater Treatment

Message from the Guest Editor

Membrane separation have gained global interest as a promising technology for treatment of various water and wastewater. However, membrane fouling remains a major obstacle hindering the practical application of membrane separation technology. Although membrane fouling has been well reported, the underlying mechanisms remain incompletely understood. On the basis of existing studies, the factors effecting membrane fouling are mainly classified into three aspects as follows: 1) the characteristics of the membrane; 2) the properties of the filtering matrix, and; 3) the operational conditions of membrane processes. Among these factors, the anti-fouling ability of a membrane is directly dependent on the membrane properties including pore size, hydrophilicity, zeta potential, and surface roughness. Therefore, the development of membrane modification method is of great significance. Topics of interest include but are not limited to the following:

- Recent advances in the membrane fouling control for wastewater treatment;
- New materials for membrane fabrication;
- New membrane modification method;
- New sights in membrane fouling mechanisms;
- Membrane cleaning.

Guest Editor

Dr. Qiaoying Wang
College of Environmental Science and Engineering, Tongji University, Shanghai, China

Deadline for manuscript submissions

closed (30 November 2021)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/82627

Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/journal/water

About the Journal

Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)

MDPI