



Effectivity Improvement for Forward Osmosis Water Treatment Technologies

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Deadline for manuscript
submissions:

closed (30 September 2021)

Message from the Guest Editors

Recently, research on the development of a novel draw solution to reduce reverse solute diffusion, emerging membrane material fabrication to eliminate concentration polarization, and membrane fouling control technology, has become the focus of researchers and engineering technicians. Forward osmosis (FO) has attracted more and more attention in the applied research as regards its utilization in resource recovery, sludge dewatering and industrial wastewater concentration since 1996. Although the FO process has broad potential applicability, researchers should closely focus on solving the obstacles of the forward osmosis membrane process, fully exploiting its advantages and broadening this technology's application range to make FO technology more efficient and sustainable in wastewater treatment.

- forward osmosis membrane
- membrane separation
- membrane fouling
- draw solution
- concentration
- recovery





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