

Membrane Bioreactor: Theory and Applications

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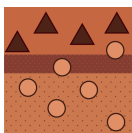
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Message from the Guest Editor

MBRs have been used in urban wastewater treatment, reclaimed water reuse, industrial wastewater treatment, micro-polluted drinking water purification, and landfill leachate treatment. At present, more and more in-depth studies are required into MBR theory (including the mechanism of the removal of pollutants, the formation mechanism of membrane fouling, the relationship between the sludge production rate and the operating conditions, and the metabolic characteristics of the microorganisms in the MBR and the effect of the microorganisms in the MBR on effluent quality and sludge activity, etc.) and applications (including actual wastewater treatment, optimization of the process and operating conditions, prevention and control of membrane fouling, process economics analyses, and the development of novel MBRs, etc.).

Potential topics include, but are not limited to: (i) the mechanism of the removal of pollutants from wastewater by the MBR; (ii) the mechanism and prevention of membrane fouling; (iii) the optimization of the process flow and operating conditions of the MBR and the optimization mechanism; (iv) economic analysis of the MBR process, and (v) development of novel MBRs.





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Message from the Editor-in-Chief

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