



## Membrane Bioreactor (MBR) Process in Wastewater and Seawater Treatment

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### Message from the Guest Editor

Dear Colleagues,

Rapid urbanisation and industrialisation have increased the demand for freshwater over the last decade, consequently leading to an increased production of freshwater from wastewater and seawater. To produce high-quality freshwater from wastewater and seawater which will not have any detrimental effects, cost-effective and reliable treatment processes are needed. Among different water treatment technologies, the most promising in wastewater treatment and seawater pretreatment is the membrane bioreactor (MBR). MBR is the combined process of an activated sludge and membrane separation. The MBR process offers a small footprint and is capable of handling high volumetric loading of organic and high mixed liquor suspended solid (MLSS) content. However, the major problem in the MBR process is membrane fouling. Membrane fouling reduces the membrane life resulting from intensive chemical cleaning and increases both operation and maintenance cost. [...]

For further reading, please follow the link to the Special Issue Website at:

[https://www.mdpi.com/journal/water/special\\_issues/Membrane\\_Bioreactor](https://www.mdpi.com/journal/water/special_issues/Membrane_Bioreactor)





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