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*polymer used.*

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*Although environmental impacts of membrane filtration processes differ according to the application, a generic method of evaluation is the life-cycle assessment (LCA), a tool for the analysis of the environmental burden of membrane filtration processes at all stages and accounts for all types of impacts upon the environment including emission to land, water and air.*

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*L. Gil, in Advances in Membrane Technologies for Water Treatment, 2015. 8.2.3 Nanofiltration. NF is a PDMP using semipermeable membranes with a molecular weight cut-off (MWCO) in the range of 0.5–2 kDa and pore sizes in the range of 0.5–2.0 nm (see Table 8.2).*

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*Researchers in the KAUST Water Desalination and Reuse Center (WDRC) focus on the development of new and optimized methods for low-energy water desalination*

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*future, it is still expensive, with reverse osmosis technology consuming a vast amount of energy (the desalination core process is based on reverse osmosis membrane technology).*

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*MF and UF can be used as a standalone technology for treating industrial wastewater, but RO and NF are usually employed in water desalination. Membrane*

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*technology operates two types of filtration processes, cross-flow filtration or dead-end filtration (Figure 3), that can be a pressure (or vacuum)-driven system .*

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*impregnated fabrics inhibited 96% of the HIV-1 virus after 30 min and 86% of E. coli after 3 h, which was significantly higher than fabrics with only Cu<sub>2</sub>O alone [ 244 , 245 ].*

### **- Idadesal**

*Hoek's research explores the union of membrane technologies, nanomaterials and electrochemistry for water, energy and environmental applications. He has published over 120 peer-reviewed journal articles, two*

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*books on Sustainable Desalination and Water Reuse and Oil & Gas Produced Water Management and is co-Editor-in-Chief of The Encyclopedia of Membrane Science and Technology.*

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*This type of membrane could preserve its activity even under harsh environmental conditions such as a high thermal treatment at 343 K for 2 h (Li et al., 2014).*

*Figure 8.7 . FESEM images (A and B, scale bar 100 nm) and confocal fluorescence microscopy images (a and b,*

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*scale bar 50 mm) of different membranes with AQP-Z incorporated membrane (called LPR 400).*

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