



Editorial Note

Nanofiltration membranes

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Nanofiltration (NF) process is a separation method that uses membranes with the pore sizes < 2 nm, smaller than that used in the ultrafiltration, but larger than that in the reverse osmosis. The most NF membranes possess a thin film structure on a support layer. Although, most of the NF membranes are made from synthetic polymers, other forms, including ceramic and metallic are available.

This process used most often with low TDS (total dissolved solids) water such as surface water and ground water for softening and removing of polyvalent ions and, natural and synthetic organic matters. Nanofiltration has been gained recently into other industries such as milk, beverage, juice, pharmaceuticals, fine chemicals, biotechnology, and etc.

In recent years, there are many researches which have been focused on developing and commercializing the NF membranes to be used for applications in variety of organic solvents ranging from non-polar through polar aprotic. This special issue covers the recent developments in the field (i.e. Nanofiltration), including a comprehensive review paper and other six original research papers.