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## Melamine-Ceramic membrane for oily wastewater treatment

ily wastewater presents noteworthy dangers to the soil, water, air and individuals as a result of the perilous idea of its oil substance. Without a doubt, powerful treatment of oil tainted water is basic before its release into nature, keeping in mind the end goal to counteract contamination issue for biological communities and in addition for human wellbeing. For that reason, two distinctive ceramic membranes have been synthesized using bentonite and with expansion of melamine. The manufactured membranes have been characterized and the outcomes demonstrated that the addition of melamine to the bentonite enhanced the porosity and water permeability of membranes. The membrane discs created are steady in corrosive media. The most noteworthy level of decrease in COD (94.7%) is acquired for the feed grouping of 200 ppm with saturate flux of 4.63 E-05 (m3/m2. s) utilizing (B+M) membrane. An increase in the oil concentration results in increase in permeates flux. The cost of the two manufactured membranes was assessed based on raw materials used in the present investigation. From the cost estimation, it can be finished up that the prepared membranes are modest when compared with ceramic membranes in the literatures. In general, the displayed work recommends the competency of the melamine - ceramic membranes towards the treatment of oily wastewater emulsion.

## **Biography**

Mona E. Ossman is the Head of Department of Computer-Based Engineering Applications, Informatics Research Institute, City of scientific Research and Technology Application, SRTA City, Alexandria, Egypt. She has got my PhD. in Chemical Engineering from Wayne University, MI, USA (2005). She has got my PhD. from Wayne University, MI, USA (2005). She has got my MSc. and BSc. in Chemical Engineering (with highest honors) from Alexandria University, Alexandria, Egypt (1991 and 1997). She has published over 50 papers in the field of water treatment. She has attended many conferences in the field of waste water treatment.

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