

عنوان مقاله:

Application of Nano Technology in Purifying Water

محل انتشار:

کنگره بین المللی علوم مهندسی و توسعه شهری پایدار (سال: 1397)

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خلاصه مقاله:

In this work, the methods of filtration water such as controlling the size of pores and integrating nanocarbon membrane filtration with electropolarization using an electroconductive nanocarbon-based were investigated. The consequence exposed that carbon nanotubes array (CNTA (6,6,5)) with about 60 (molecule/tube.ns) of water flux and 100% of salt rejection has high-efficiency on desalination procedures and driving the most water flux amounts for filtering was achieved. Also for the condition under alternatively polarization (between $\pm 1V$) furnished a high amount of water flux for removing pollutions from water by membrane fouling. So by combining these approaches, an effectual .avenue for water treatment will open

کلمات کلیدی:

Desalination, Nanocarbon, Membrane filtration, Controlling interval, Polarization

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