

عنوان مقاله:

The new technic for removal anionic dye from water with negative surface electrostatic charge by polymeric membrane

محل انتشار:

ششمین کنفرانس بین المللی شیمی و مهندسی شیمی (سال: 1398)

تعداد صفحات اصل مقاله: 8

نویسندگان:

Mehran Khansanami - *Department of physics, Sharif university of technology, Tehran, Iran*

Ali Esfandiar - *Department of physics, Sharif university of technology, Tehran, Iran*

خلاصه مقاله:

Poly Vinylidene Fluoride (PVDF) polymer is one of the commonly polymeric materials that abundant used in Ultrafiltration and Microfiltration process in water treatment technology for separation particles with 0.1-10 μm . But PVDF membrane because of its 18nm mean pore size with negative surface charge, can't separate anionic nanometer molecules in under 2nm size. However, the PVDF/GO functional membranes with more negative surface electrostatic charge toward neat PVDF membrane, and adding cationic molecules to the anionic dye solution can remove this anionic dye from water with high efficiency during filtration process.

کلمات کلیدی:

separation, PVDF/GO composite polymeric membrane, electrostatic interaction

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1005783>

