سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها گواهی ثبت مقاله در سیویلیکا CIVILICA.com



عنوان مقاله:

Fabrication and modification of PSF membrane by Uio-۶۶-NHY nanoparticles to remove dyes from the wastewater

محل انتشار:

پانزدهمین کنفرانس ملی پژوهش های نوین در علوم و مهندسی شیمی (سال: 1401)

تعداد صفحات اصل مقاله: 7

نویسنده:

Mehdi Tarkhani

خلاصه مقاله:

In this study, the PSF membrane was modified by different percentages of Uio-۶۶-NHY nanoparticles by Mixed Matrix membranes (MMMs) method. Field emission scanning electron microscopy (FE-SEM) was used to determine the morphology of membranes, which showed modified membranes had more porous on the surface. Fouling resistance of membrane was investigated, which total and irreversible fouling resistance of native membrane was ٣٧% and ٢٨%, which these parameters were reduced by Y9% and Y۳% for modified membrane (MY). The rejection of membranes was investigated, and the rejection of methylene blue and methylene orange were 14% and 14% for primitive membranes, which decreased by &% and ٣.6% for modified membranes, respectively. The optimum percentage of nanoparticles for this study was o.1%, which membrane containing it, had lower rejection and fouling resistance

کلمات کلیدی: Wastewater treatment, Uio-۶۶-NH۲, PSF membrane

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