

عنوان مقاله:

Removal of Cobalt from Wastewater by Emulsion Liquid Membrane

محل انتشار:

ششمین کنگره بین المللی مهندسی شیمی (سال: 1388)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

Emulsion liquid membrane is applied in a batch process for separation of cobalt as a hazardous heavy metal in wastewater. A newly synthesized surfactant is used for stabilizing of emulsion and Tri Iso Octyl Amine (TIOA) is used as the carrier for transferring of the Co ions in complex form through the organic membrane. In order to determine the optimum operation conditions, the effect of parameters such as carrier concentration, pH of external phase, SCN concentration in the external phase, surfactant concentration, initial concentration of cobalt in the external phase, and trapping agent concentration of the internal phase are studied.

کلمات کلیدی:

Cobalt, Emulsion liquid membrane, Surfactant, Carrier, Removal efficiency

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