عنوان مقاله:

Appling the mixed culture of bacteria in biorecovery of uranium at different pulp densities

محل انتشار:

اولین کنفرانس بین المللی مهندسی محیط زیست (سال: 1393)

تعداد صفحات اصل مقاله: 5

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خلاصه مقاله:

Bioleaching processes for extraction of uranium from low grade ore are more environmentally friendly and consume less energy than conventional technologies. In this investigation, the mixed culture for uranium dissolution at different pulp densities was used. For this purpose, Acidithiobacillus ferrooxidans and Acidithiobacillus thiooxidans cultivated in APH medium with pH 2 and different pulp densities (5, 10 and 15%) of anomaly I at 150rpm and 35oC. Measurement of uranium extraction showed that, uranium recoveries of 100% were obtained in 2 and 4 days in bioleaching process at 5 and 10% pulp densities, respectively, while 94% of uranium extraction achieved at 15% of pulp density during 7 days

کلمات کلیدی:

Pulp density, Uranium, Mixed culture