## عنوان مقاله:

Inhibitory Effect of High Concentration of Metal Ions on the Activity of Acidithiobacillus ferrooxidans in Bioleaching

System

## محل انتشار:

دومين كنفرانس بين المللي مهندسي محيط زيست (سال: 1394)

تعداد صفحات اصل مقاله: 9

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#### خلاصه مقاله:

The aim of this study was to determine the effect of low-grade ore pulp density on dissolution of metal by Acidithiobacillus ferrooxidans (A. ferrooxidans). The bioleaching experiments was carried with 9k medium and different pulp densities (2.5,15%) of anomaly II of Saghand in Yazd at 150rpm and 35oC. The results demonstrated that the variations of Eh, pH, ferrous iron and metal extraction in the bioleaching system of the bacteria cultivated with 15% (w/v) pulp density lag behind that bacteria with 2.5% (w/v) pulp density. Study on the bioleaching with A. ferrooxidans has indicated that high concentration of metal can decrease leaching capacity

# كلمات كليدى:

Acidithiobacillus ferrooxidans, Bioleaching, Anomaly II, Metal ions, Pulp density

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