

## عنوان مقاله:

Reductive leaching of manganese oxide ore using cornstalk as reductant

## محل انتشار:

نهمین کنفرانس و نمایشگاه بین المللی مهندسی مواد و متالورژی ایران و چهاردهمین همایش ملی مشترک انجمن مهندسی متالورژی و مواد ایران و انجمن ریخته گری ایران (سال: 1399)

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## خلاصه مقاله:

Extraction of manganese from manganese dioxide concentrate was investigated using cornstalk as a reducing agent in dilute sulfuric acid medium. The effects of cornstalk presence, leaching time and solid to liquid ratio on the leaching percent of Mn were investigated. The leaching percent about 100 for Mn was obtained under the following optimized conditions: cornstalk to manganese oxide concentrate mass ratio of 1:2, solid to liquid ratio of 100 g/L, leaching temperature of 85 °C, sulfuric acid concentration of 2M and leaching time of 3 hr.

## کلمات کلیدی:

Manganese; Pyrolusite; Reductive Leaching; Cornstalk

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1133540>

