

**عنوان مقاله:**

Effect of alkalinity on synthesis of nano porous Pollucite zeolite powder

**محل انتشار:**

چهاردهمین کنگره ملی مهندسی شیمی ایران (سال: 1391)

تعداد صفحات اصل مقاله: 4

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**خلاصه مقاله:**

Pollucite zeolite as one of the alumina silicate zeolites with high absorption ability was synthesized in this study. Synthesis of this zeolite was performed with three gelformulas of  $1Al_2O_3:3Na_2O:0.4Cs_2O:10.8SiO_2:400H_2O$ ,  $1Al_2O_3:6Na_2O:0.8Cs_2O:10.8SiO_2:400H_2O$  and  $1Al_2O_3:9Na_2O:1.2Cs_2O:10.8SiO_2:400H_2O$  with three different heating time varied from 4 to 10 days. Higher crystallinity of the synthesized zeolite powder was the main object of this work. According to the XRD results, the best zeolite was synthesized using the synthesis time of 7 days at  $100^\circ C$  with further 24 h aging

**کلمات کلیدی:**

Synthesis of Pollucite zeolite, Effect of alkalinity, Crystallinity

**لینک ثابت مقاله در پایگاه سیویلیکا:**

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