

عنوان مقاله:

Investigation on adsorption behavior of nano structure Natural clinoptilolite for cadmium ion removal from aqueous solution

محل انتشار:

کنفرانس بین المللی پژوهش های نوین در علوم مهندسی (سال: 1395)

تعداد صفحات اصل مقاله: 6

نویسندگان:

S.H. Mousavi - Faculty of Caspian, College of Engineering, University of Tehran, Tehran, Iran

H. Aghayan - Nuclear science and Technology Institute, P.O. Box. 11365-8486, Tehran, Iran

T. Yousefi - Nuclear science and Technology Institute, P.O. Box. 11365-8486, Tehran, Iran

,B. Baseri - Faculty of Fouman, College of Engineering, University of Tehran, Tehran, Iran

خلاصه مقاله:

Water pollution due to toxic metals ions including cadmium has created grave concerns for human health. Nowadays various techniques have been employed to remove these metals ions from industrial wastewater. Among these methods, the adsorption, as a common process with high performance, simplicity and cost-effectiveness has attracted attention of many researchers. In this case, the first priority is achieving a low-cost adsorbent. Nano-clinoptilolite having large specific surface area and many of active adsorbent sites as well as its abundance in nature can be a good candidate for the absorption process. In this work, we investigated on adsorption behavior of natural nano-clinoptilolite for removal of cadmium ions from aqueous solution and initial concentration of cadmium ions as an important factor affecting on adsorption process was evaluated

کلمات کلیدی:

Cadmium, Adsorption, Nano Structure, Natural Clinoptilolite

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/506538>

