

عنوان مقاله:

(Improve the surface properties of TMOS xerogel by metal ion cadmium (II

محل انتشار:

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خلاصه مقاله:

TMOS xerogel, recently has been considered as a solid surface which is active. Surface of the adsorbent due to the outward oxygen atom in the molecular structure, is negatively charged, so this solid, shows good ability to adsorb metal ions. But because of the negative charge on the surface of the adsorbent, the anions, particularly organic anion compounds are not absorbed. To fix this problem, it can set the metal ions on the surface of the solid. By placing the cadmium ions on the xerogel, a positive charge on the surface of the adsorbent is made, that increased the ability of the adsorbent to attract 2,4-dichlorophenol from aqueous solutions. Results show an increasing of the adsorption about 17% on empty xerogel, to about 60% by modified one, with metal cadmium (II) ion.

کلمات کلیدی:

dichloropheno., modified xerogel, cadmium (II), TMOS-2,4

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