

عنوان مقاله:

THE ROLE OF METAL ION ON PHYSIOCHEMICAL PROPERTIES OF METAL ALUMINATES PREPARED BY IMPREGNATION METHOD

محل انتشار:

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خلاصه مقاله:

A series of MAIYOF (M=Ni, Zn, and Cu) aluminates were prepared by using impregnation method; the metal content of the products was ranged between awt% to Yawt%. The samples were characterized by x-ray diffraction (XRD), Brunauer Emmett Teller (BET) surface area, NHW temperature-programmed desorption (NHW-TPD), and inductively coupled argon plasma (ICP). The specific surface areas of zinc, nickel and copper aluminates were in the ranges of FY-YYmY/g, FT-AYmY/g and 1.5-TmY/g, respectively. The surface acidity decreased in the order of CuAlYOF<< NiAlYOF< ZnAlYOF<< AlYOW. By increasing the amount of metals in the samples, the number of acidic sites decreased, but their strength did not significantly change. Ni-aluminates have fewer acidic sites than Zn-aluminates, particularly in strong acid sites

کلمات کلیدی: Aluminate, Impregnation, Acidity, Catalyst Support

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