

عنوان مقاله:

The synthesis of nanocomposite titanium dioxide doped with zirconium by sol-gel method and absorption of Methyl Orange from Water

محل انتشار:

اولین کنفرانس ملی نانو از سنتز تا صنعت (سال: 1396)

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خلاصه مقاله:

In this study, nano-composite TiO2 / Zr were synthesized by sol-gel method in two different ways. TiO2 nanocomposites in the first broadcast network to the heater-stirrer element zirconium and zirconium element in the network nanocomposites to play second rounds of the ultrasonic bath was used. To analyze and structure of nanocomposites synthesis of the analysis of XRD, BET, FT-IR and SEM were used. The results of the analysis of XRD, FT-IR and SEM significant difference between the synthesized Nano-composites do not show. The data analysis showed that the BET surface area per unit mass of material is Nano-particle. The nanocomposite was synthesized by the heater-stirrer 50 percent level can be seen, the increased level of temperature uniformity in the way the matter is that during synthesis is given. By heater-stirrer synthesized nanocomposite also has a lighter color than the nanocomposites are synthesized by ultrasonic bath. The efficacy of nanocomposite synthesis was evaluated by spectrophotometric analysis the absorption of methyl orange juice is synthesized nanoparticles and nanoparticles .synthesized by ultrasonic bath for 80 minutes with the heater-stirrer 60 minutes were reported

کلمات کلیدی: Nano Composite, Doped, Adsorption, Synthesis, Scherrer

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