

## عنوان مقاله:

Effect of PH, contact time and adsorbent dose on the removal of Zn(II) from water using polyaniline/DBSNA nanoparticles

## محل انتشار:

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## خلاصه مقاله:

Zinc is one of the most important pollutants for surface and ground water. Because of its acute toxicity and non-biodegradability, zinc-containing liquid and solid wastes are considered as hazardous wastes. In this study, polyaniline (PAN) nanoparticle was prepared in aqueous solution by the polymerization of aniline using ammonium peroxydisulfate (APS) as oxidant in the presence of surfactive dopant sodium dodecylbenzenesulfonate as surfactant. The capability of separating Zn(II) ions was studied. The results indicated that removal percentage was increased by increasing the PH of solution, adsorbent dose and contact time.

## کلمات کلیدی:

Polyaniline, dodecylbenzenesulfonate, Removal, Zn(II), Adsorption

## لینک ثابت مقاله در پایگاه سیویلیکا:

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