

عنوان مقاله:

GRAPHENE OXIDE-BASED SPE FOR PRECONCENTRATION OF Mn(II), Fe(III) AND Cu(II) IONS IN DIFFERENT SAMPLES

محل انتشار:

سومین همایش ملی تکنولوژی های نوین در شیمی، پتروشیمی و نانو ایران (سال: 1395)

تعداد صفحات اصل مقاله: 5

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خلاصه مقاله:

A simple and selective method using a column packed with graphene oxide (GO) as a solid phase extractant has been developed for the multi-element preconcentration of Mn(II), Fe(III) and Cu(II) ions prior to flame atomic absorption spectrometric determinations. The method is based on the adsorption of metal ions as 1-Phenyl-3-(2-thienylmethyl)thiourea (PTT) complex on synthesized graphene oxide. Some parameters including flow rate, pH, type and the least amount of acid for stripping of ions from the modified column and break through volume were investigated on the recovery of mentioned ions. The developed method was successfully applied to the determination of Mn(II), Fe(III) and Cu(II) ions in leaves of spinach, honey, hair, blood and various water samples

کلمات کلیدی:

Heavy Metals, Solid Phase Extraction, Thiourea, Nano Graphene Oxide, FAAS

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