

### عنوان مقاله:

Extraction sorbent with Octadecane-functionalized nano graphene (OD-G) for the preconcentration of Chromium Species in water and Paraffin-Embedded Tissues from Liver Loggerhead Turtles Specimens by FAAS

### محل انتشار:

اولین همایش ملّی تکنولوژی های نوین در شیمی و پتروشیمی (سال: 1393)

تعداد صفحات اصل مقاله: 1

## نویسندگان:

Roghieh Fathi - Department of Chemistry, Varamin(Pishva) Branch Islamic Azad University, Varamin, Iran

Ali Moghimi - Department of Chemistry, Varamin(Pishva) Branch Islamic Azad University, Varamin, Iran

#### خلاصه مقاله:

nano graphene (OD-G) were used as absorbent for extraction of Cr(III) and Cr(VI), ions in the presence of diethyldithiocarbamate as a chelate by solid phase extraction method. A novel and selective methodfor the fast determination of trace amounts of chromium species in water samples has been developed. The procedure is based on the selective formation of chromium diethyldithiocarbamate complexes at different pH in the presence of Mn(II) as an enhancement agent of chromium signals followed by elution with organic eluents and determination by atomic absorption spectrometry. The maximum capacity of theemployed disks was found to be 498 3 µg and 487 2 µg for Cr(III) and Cr(VI), respectively. The detection limit of the proposed method is 21 and 12 ng.L-1 for Cr(III) and Cr(VI), respectively. The proposed method was successfully applied for determination of chromium Species Cr(III) and .Cr(VI) in different water samples

## كلمات كليدي:

Solid phase extraction, Sodium diethyldithiocarbamate, Flame atomic absorption spectrometry, Octadecyl silica (membrane disk, nano graphene (OD-G

# لینک ثابت مقاله در پایگاه سیوپلیکا:

https://civilica.com/doc/244476

