عنوان مقاله:

MOF/MSN Composite as an Effective Adsorbent for Solid-Phase Microextraction Samplingof PAHs from Soil Samples

محل انتشار:

بیست و دومین کنگره بین المللی شیمی انجمن شیمی ایران (سال: 1403)

تعداد صفحات اصل مقاله: 2

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خلاصه مقاله:

In this work, a new composite of MOFs (MIL-۸۸(Fe)) and MSNs (mesoporous silica materials) weresynthesized and characterized by FE-SEM, XRD, BET, TGA and FTIR techniques. The HS-SPME method is evaluatedfor sampling PAHs (Polycyclic aromatic hydrocarbons) compounds from polluted soil samples using theMOF/MSN fiber. Optimization of the extraction parameters including extraction temperature, extraction time,moisture content of the sample, desorption time and desorption temperature was carried out using a GC-FIDinstrument and a Box-Behnken design (BBD) method

کلمات کلیدی:

Headspace solid-phase microextraction; Metal organic frameworks; Mesoporous silica materials

لینک ثابت مقاله در پایگاه سیویلیکا: