عنوان مقاله:

Preconcentration of trace of Pb2+ and Zn2+ ions using bis (4-chlorobenzylidene)-1,2-ethanediimine(BCBEN) on platinum nanoparticle loaded on activated charcoal and subsequent determination by FAAS

محل انتشار:

اولین کنفرانس ملی علوم و فناوری نانو (سال: 1389)

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خلاصه مقاله:

A selective, sensitive and efficient method for preconcentration of trace amounts of some metal ions such as Pb2+, Cu2+ and Co2+ ions has been reported. The method is based on the uptake of Fe3+, Cu2+ and Zn2+ with Bis(4-chlorobenzylidene)-1,2-ethanediimine(BCBEN) impregnated on platinum nanoparticle loaded on activated charcoal. The influences of the analytical parameters including pH, ligand amount, eluting condition and sample volume on metal ions recovery were investigated. Following optimization of variable, preconcentration factor is 150 and detection limit of…….. was obtained. The method has been successfully applied for the extraction and determination of these ions content in some real samples. The extrac1on efficiency was > 97% with low rela1ve standard deviation (RSD < 2.4 %).

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا: