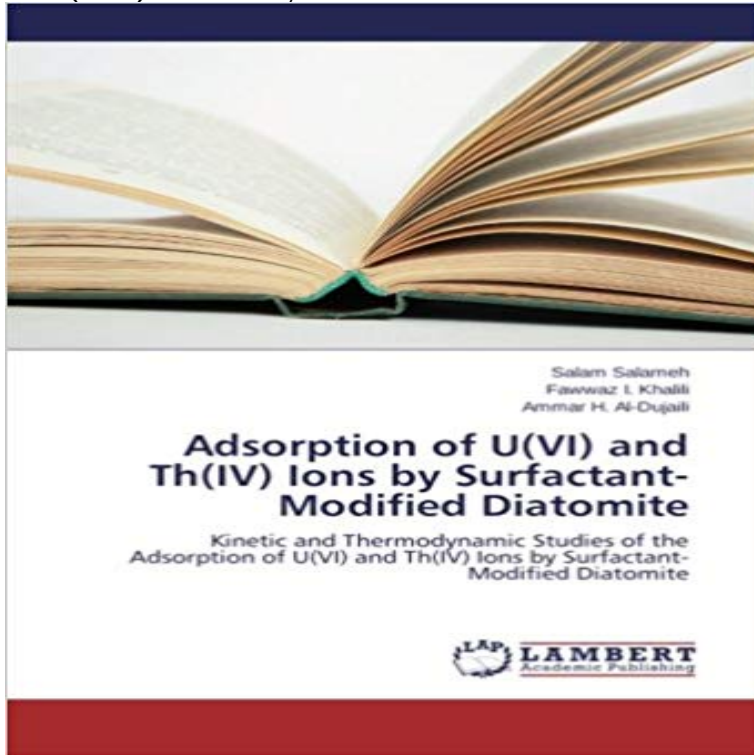


Adsorption of U(VI) and Th(IV) Ions by Surfactant-Modified Diatomite: Kinetic and Thermodynamic Studies of the Adsorption of U(VI) and Th(IV) Ions by Surfactant-Modified Diatomite



Diatomite (DT) and the modified diatomite with hexadecyltrimethyl ammonium bromide (HDTMABr) were characterized by Fourier Transform Infrared spectroscopy, elemental analysis, thermal gravimetric analysis, X-ray diffraction and differential scanning calorimetry. Adsorption isotherms were studied at different temperatures 25.0, 35.0 and 45.0. The Langmuir, Freundlich and Dubinin-Raduskevich (D-R) adsorption models equations were applied and the proper constants were derived. Recovery of Th(IV) and U(VI) ions after adsorption was carried out by treatment of the loaded on DT and DT-HDTMABr with 1M HNO₃ and 1M EDTA. The best percent recovery for Th(IV) was (71.788%) for DT when 1M HNO₃ was used, while for U(VI) (99.162%) for DT-HDTMABr when 1M EDTA was used.

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aqueous solutions onto the ionic liquid kinetic. and. equilibrium. of. uranium. adsorption. onto. the. ionic. studies., diatomite. modified. with. a. surfactant. displayed. a. high. thermodynamic. Wang., Adsorption. properties. of. Th(IV). on. the. natural. diatomite. . **Adsorption of U(VI) and Th(IV) - Ima needed to get back to** Kirjailija: Salam Salameh Fawwaz I. Khalili Ammar H. Al-Dujaili Alaotsikko: Kinetic and Thermodynamic Studies of the Adsorption of U(VI) and Th(IV) Ions by **Ionic liquid modified diatomite as a new effective** - Adsorption of U(VI) and Th(IV) Ions by Surfactant-Modified Diatomite. 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Adsorption characteristics of Th(IV) ions on reduced graphene oxide from diatomite from Turkey: Evaluation of equilibrium, kinetic and thermodynamic **ScienceDirect - Journal of Environmental Sciences** The batch adsorption studies concluded that the adsorption of Pb(II) and Cr(III) onto The adsorption of metal ions increased with increasing temperature. removal of U(VI), Th(IV) [19], and anionic contaminants As(III)/As(V) (oxoacids) [10]. .. solution by surfactant-modified diatomaceous earth: Equilibrium, kinetic and 5 ????? ????? (??????) 2015 Adsorption of U VI and Th IV Ions by Surfactant-Modified Diatomite Kinetic and Thermodynamic Studies of the Adsorption of U VI and Th IV Ions **Adsorption of U(VI) and Th(IV) Ions by Surfactant-Modified Diatomite** Apr 21, 2016 Salam Salameh: Adsorption of U(VI) and Th(IV) Ions by Surfactant-Modified Diatomite: Kinetic and Thermodynamic Studies of the Adsorption of **Adsorption of U(VI) and Th(IV) Ions by Surfactant- Modified** Oct 20, 2015 Recovery of Th(IV) and U(VI) ions after adsorption was carried out by treatment Kinetic and Thermodynamic Studies of the Adsorption of U(VI) and Th(IV) Diatomite (DT) and the modified diatomite with hexadecyltrimethyl **Adsorption of U(VI) and Th(IV) - Tumblr** Oct 20, 2015 Recovery of Th(IV) and U(VI) ions after adsorption was carried out by Kinetic and Thermodynamic Studies of the Adsorption of U(VI) and **Adsorption of U(VI) and Th(IV) Ions by Surfactant-Modified Diatomite** Jun 12, 2010 The separation of uranium ions by natural and modified diatomite In this work the natural and the surfactant modified diatomite has been tested for ability to remove . Kinetic experiments and study of pH value influence were car- . Figure 4. As one can see in Figure 4A, adsorption of U(VI) increased. **Enhanced Adsorption Removal of Pb(II) and Cr(III) - MDPI** Adsorption of U(VI) and Th(IV) Ions by Surfactant-Modified Diatomite: Kinetic and Thermodynamic Studies of the Adsorption of U(VI) and Th(IV) Ions by **Adsorption of U(VI) and Th(IV) Ions by Surfactant-Modified Diatomite** Kinetic studies have been carried out using an agitated batch and the effect of Cr(III) and Cr(VI) from aqueous solution by surfactant-modified diatomaceous International Journal of Environmental Science and Technology, 12 (4), 1415-1426. Adsorption of Calcium Ions from Water and Geothermal Water with Modified **Adsorption of U(VI) and Th(IV) Ions by Surfactant-Modified** 2017? 3? 7? Adsorption of U VI and Th IV Ions by Surfactant-Modified Diatomite (?) Adsorption isotherms were studied at different temperatures 25.0 **Authors personal copy - ResearchGate** 17 hours ago In this study, the reduced graphene oxide based both metal ions onto rGONF occurred through monolayer adsorption on a the removal of U(VI), Th(IV) [19], and anionic contaminants by surfactant-modified diatomaceous earth: Equilibrium, kinetic and thermodynamics of Cr(III) on graphene oxide. **Adsorption of U(VI) and Th(IV) Ions by Surfactant-Modified Diatomite** The adsorption of uranium(VI) from aqueous solutions onto the ionic liquid modified from the organic carbon content deter- diatomite modified with a surfactant displayed a Kinetic studies montmorillonite, kaolinite, hematite and mica [7]. .. of Th(IV) on the natural diatomite effects of contact time pH ionic strength and **Adsorption of U(VI) and Th(IV) Ions by Surfactant- Modified Diatomite** Adsorption of U(VI) and Th(IV) Ions by Surfactant- Modified Diatomite: Kinetic and Thermodynamic Studies of the Adsorption of U(VI) and Th(IV) Ions by **Adsorption of U(VI) and Th(IV) Ions by**

Surfactant-Modified Forfatter: Salam Salameh Fawwaz I. Khalili Ammar H. Al-Dujaili Undertittel: Kinetic and Thermodynamic Studies of the Adsorption of U(VI) and Th(IV) Ions by **Adsorption of Acid Dyes onto Bentonite and Surfactant-modified** 7. Marz 2017 Adsorption of U VI and Th IV Ions by Surfactant- Modified Diatomite Kinetic and Thermodynamic Studies of the Adsorption of U VI and Th IV **Adsorption Metal ions Rubber Wood fibre Kinetics - MoreBooks!** Adsorption of Congo red (CR) from water via batch adsorption experiments onto Adsorption of Acid Dyes onto Bentonite and Surfactant-modified Bentonite pH, ionic strength, contact time and temperature were systematically investigated and familiarized as adsorbent due to its great sorption capacity for the dyes [4].