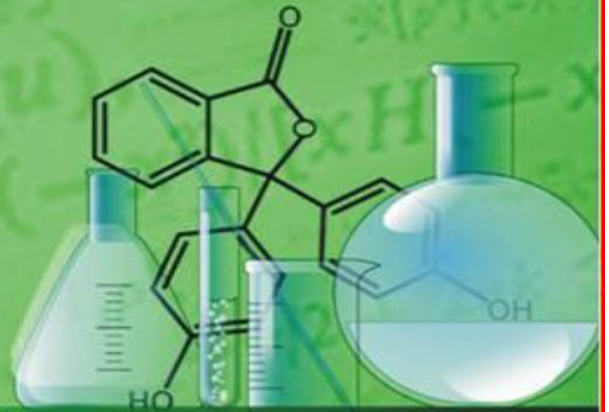
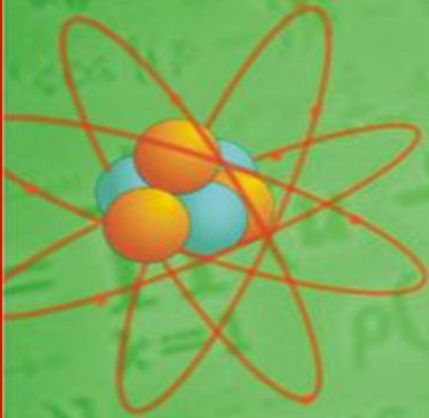


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	Paper Title:	Calculation of Surface Tension and Viscosity of Liquid Transition Metals	
	<p>Abstract: The results of calculations of structure and some surface properties such as, isothermal compressibility, surface tension and viscosity for liquid 3d transition metals, Ti, Ni and V, near melting temperatures are presented. We used the parameters of the Wills-Harrison (WH) approximation in conjunction with the Bretonnet-Silbert (BS) local model pseudopotential, which is suggested separate description of the s- and d—electron states are calculated using Dubinin procedure [1]. Isothermal compressibility and surface tension properties of Ti, Ni and V are calculated using extended Mayer’s empirical formula in terms of hard sphere diameter and packing fraction which calculated using Waseca’s formula [2]. We have obtained in very good agreement near melting point with available experimental data.</p> <p>Keywords: transition metal, scaled particle theory, surface tension, viscosity.</p> <p>References:</p> <ol style="list-style-type: none"> N.E. Dubinin, ” Interatomic Pair Interaction In Liquid Transition Metals”, Act. Phys.Pol.A, 2009, 115,783. Y. Waseda, The Structure Of Non-Crystalline Materials, Mcgraw-Hill Publ. Co., New York, 1980. V. B. Bobrov, Yu. P. Vlasov and S. A. Trigger, Theory of isothermal compressibility of two-component liquid metal plasmas, TVT, 1992, 30, 641. S. A. Trigger, V. B. Bobrov, Yu. P. Vlasov, Liquid metal compressibility theory using the OCP model as a reference system Physica B, 1994, 193, 291. T. Armağan, The isothermal compressibility theory; Application to the liquid metals Pb and Sn, Balkan Physics Letters, 2000, 8, 59. S. Uçar and T. Armağan, Application of liquid metal compressibility theory to the liquid rare earth metals, J. of Optoelectronics and Advanced Materials, 2007, 9, 148. S. W. Mayer, A molecular parameter relationship between surface tension and liquid compressibility, J. Phys. Chem., 1967 63, 216. M. R. Amin, R. C. Gosh, G. M. Bhuiyan, Surface tension of liquid transition and noble metals, J. of Non-Crystalline Solids, 2013, 380, 42. P. A. Egelstaff and B. Widom, Liquid Surface Tension near the Triple Point, J. Chem. Phys., 1970, 53, 2667. R. Tahery and H. Modarress, Relationship between Surface Tension, Compressibility and Molecular Parameter, 9. Iranian Chemical Engineering Congress, 23-25 Nov. 2005, Page 515. J.L. Bretonnet, M. Silbert, Interionic Interactions in Transition Metals. Application to Vanadium, Phys. Chem. Liq., 1992, 24, 169. M Hasegawa, Freezing of the classical one-component plasma: analyses of the non-perturbative density-functional theories, J. Phys.: Condens. Matter, 1992, 4, 5493. A. Sarkar, D. Sen, S. Haldar, D. Roy, Static local field factor for dielectric screening function of electron gas at metallic and lower densities, Mod. Phys. Lett., 1998, 12, 639. Egry, G. Lohoefer, And S. Sauerland, Surface Tension And Viscosity Of Liquid Metals, Journal Of Non-Crystalline Solids, 156-158, 1993, 830-832. Bretonnet, J.L. and Derouche, A., Variational Thermodynamic Calculations For Liquid Transition Metals, Phys. Rev. B, 1991, 43, 8924. W.A. Harrison, Elementary electronic structure, World Scientific, Singapore, 1999. R. N. Joarder and T. Das, Thermodynamics of liquid metals based on charged hard sphere (CHS) model, Phys. Scripta, 1988, 37, 762. T. Iida, and R. I. L., Gutrie, The Physical Properties Of Liquid Metals, Clarendon Press, Oxford (Gb), 1988. G. Kaptay, A unified equation for the viscosity of pure liquid metals, Z. Metallkd., 2005, 96, 1. 		1-4
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	Paper Title:	Determination of Uranium (VI) in Underground Water and Rock Samples by Adsorptive Cathodic Stripping Voltammetry	
	<p>Abstract: Uranium (VI) forms a complex with potassium hydrogen phthalate. This complex is adsorbed onto a hanging mercury drop electrode (HMDE) and uranium is determined by differential pulse cathodic stripping voltammetry (DPCSV). This method is applied for the determination of U (VI) in 10 rock samples and 15 underground water samples. The reduction current of adsorbed complex of uranium (VI) was measured by differential pulse cathodic stripping voltammetry (DPCSV), preceded by a period of accumulation onto the electrode surface. Concentration of U(VI) found were ranged from: nil – 3.34µg/L-1in ground water samples and 0.167 – 3.637 mgkg-1 in rock samples. The statistical parameters (standard deviation, correlation coefficients, for estimation and confidence interval for standard deviations) are made by linear regression method. The values reveal the accuracy and reliability of the proposed method for monitoring of U(VI) in underground water and rock samples.</p> <p>Keywords: Differential pulse cathodic adsorptive stripping voltammetry, Uranium, Uranium (VI), rocks, underground ground water samples.</p> <p>References:</p> <ol style="list-style-type: none"> Sawant L. R, Kalsi P. K, Kulkarni A. V and Vaidyanathan S , J. Radioanal. Nucl. Chem. 207 (1996) 1 39-43.W.-K. Chen, Linear Networks and Systems (Book style). Belmont, CA: Wadsworth, 1993, pp. 123–135. Zamora M.L., Zielinski J.M, Meyerhof D.P, and Tracy B.L. German Federal Environment Agency 2005 48(2005) 7 822-827. Shanon S. S, The and its Relation to the Nure Effort Symposium on Hydrochemical and HSSR Program Stream–Sediment Reconnaissance for Uranium in the United States Grand Junction (1977) I.E. H. Miller, “A note on reflector arrays 		5-10

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