CIA-RDP86-00513R000928130011-6



APPROVED FOR RELEASE: 06/19/2000

KUZNETSOV, V. A.; CHERNOV, L. A.; SHARADIN, V. I.

"Experimental study of some methods of compensation of high excess reactivity." report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva, 31 Aug-9 Sep 64.

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28/51 V. A.; Ashpur, V. V.; and Poroshina, G. S. Ension of thallium amalgam in a vacuum SSR 101/2, 301-304, Mar 11, 1955 ce tension of thallium amalgam was investigated in accordance with d of maximum pressure in the drop by means of a special gravitation t. The minimum observed on the isothermal curves representing the ension of the investigated thallium amalgam is explained, first by ively small difference in the surface tension of the amalgam com- d secondly by the reaction between the amalgam components. An in temperature reduces the rate of reaction, and the minimum on ce tension isotherms is equalized. Nine USSR references (1928- raphs. Gorkiy Ural State University, Sverdlovsk	USSR/ Chemistr
SSR 101/2, 301-304, Mar 11, 1955 ce tension of thallium amalgam was investigated in accordance with d of maximum pressure in the drop by means of a special gravitation t. The minimum observed on the isothermal curves representing the ension of the investigated thallium amalgam is explained, first by ively small difference in the surface tension of the amalgam com- d secondly by the reaction between the amalgam components. An in temperature reduces the rate of reaction, and the minimum on ce tension isotherms is equalized. Nine USSR references (1928- raphs.	Gard 1/1
SSR 101/2, 301-304, Mar 11, 1955 ce tension of thallium amalgam was investigated in accordance with d of maximum pressure in the drop by means of a special gravitation t. The minimum observed on the isothermal curves representing the ension of the investigated thallium amalgam is explained, first by ively small difference in the surface tension of the amalgam com- d secondly by the reaction between the amalgam components. An in temperature reduces the rate of reaction, and the minimum on ce tension isotherms is equalized. Nine USSR references (1928- raphs.	Authors s
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d of maximum pressure in the drop by means of a specific glutotethe t. The minimum observed on the isothermal curves representing the ension of the investigated thallium amalgam is explained, first by ively small difference in the surface tension of the amalgam com- d secondly by the reaction between the amalgam components. An in temperature reduces the rate of reaction, and the minimum on ce tension isotherms is equalized. Nine USSR references (1928- raphs.	Feriodical :
Gorkiy Ural State University, Sverdlovsk	Abstract I
an A. N. Frumkin, October 1, 1954	Institution :
an A. N. Frumkin, October 1, 1954	

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Causes of the foaming of pickling solutions. no.5:688-692 My '56.	Zhur.prikl.khim. 29 (NLRA 9:8)	
1. Ural'skiy gosudarstvennyy universitet imen (NetalsPickling)	ai A.M. Gor'kogo.	
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5(2), 24(3)	SOV/156-59- Kuznetsov, V. A., Zagaynova, L. S. Klevtsova, M	2-12/40 . P.,
AUTHORS :	Shevrina;	
ritle :	The Investigation of Electrocapillary Phenomena Gold Alloys (Issledovaniye elektrokapillyarnykh splavakh talliy-zoloto)	on Thallium - A yavleniy na
PERIODICAL:	Nauchnyye doklady vysshey shkoly. Khimiya i khin tekhnologiya, 1959, Nr 2, pp 268-272 (USSR)	nicheskaya
ABSTRACT: Card 1/3	The dependence of the potential maxima of the ex- curves upon the composition of the metal alloys been clearly fixed. The papers by S. V. Karpach Stromberg and collaborators (Ref 1) with amalgar ed. The present paper deals with the investigat in the title at 450° and a gold content of the between 0 and 46% by atom. Thallium was supplie Chimkentskiy svintsovo-tainkovyy zavod (Chimken Zinc Works). A eutectic mixture of lithium- and chloride served as electrolyte. Figure 1 shows capillary curves for thallium and thallium - go They show that the addition of gold leads to an surface tension at the boundary alloy - electro	nas not yet ev, A. G. ms are mention- ion mentioned alloy of d by the t Lead- and potassium the electro- ld alloys. increased
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sov/156-59-2-12/48 The Investigation of Electrocapillary Phenomena on Thallium - Gold Alloys creasing gold content the maximum of the electrocapillary curve shifts in positive direction. A. N. Frumkin (Ref 4) explaine this shift of the potential of the zero-charge by the fact that the added metal (gold) occupies a certain part of the surface layer. The surface density of thallium and gold are calculated on this basis according to the formula of Gibbs; it is shown by table 1. The adsorption of Au becomes more and more negative with increasing gold content. For the composition of the surface the equation of E. A. Guggenheim and N. K. Adam (Ref 7) was used. Table 2 gives the surface concentration of Tl and Au and the degree of occupation of the surface layer. With increasing gold content in the alloy the degree of occupation of the surface by Au rises and attains 0.28 at a gold content of 45.9% by atom. The approximation character of the calculation - which is carried out on the assumption that the dimensions of the T1- and Au particles are equal in the surface layer and in the alloy - is regarded as justified by the fact that the deviations of the Tl-Aualloy from the law of the ideal solution are inconsiderable. This is shown by figure 2. It is, therefore, possible to Card 2/3

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PRESENTED BY:	neglect the effect of the mentioned differences. The average value of the potential of the zero charge referred to one electrode of melted lead in a eutectic mixture of LiCl and KCl was found to be equal to -0.28 v . The authors thank their work. There are 2 figures, 2 tables, and 10 references 9 of which are Soviet. Kafedra fizicheskoy khimii Ural'skogo gosudarstvennogo uni- (Chair of Physical Chemistry, Ural State University imeni A. M. Gor'kiy)	
SUBMITTED:	July 22, 1958	
Card 3/3		

TITLE :	On Complex Compounds of Hexavalent Uranium With Hydroxylamics (O kompleksnykh soyedineniyakh shestivalentnogo urana s gidro- ksilaminom)
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 4, pp 865-868 (USSR)
ABSTRACT [•]	The authors investigated the complex formation of hexavalent uranium with hydroxylamine in dependence of the pH value of the solution. When mixing a solution of uranyl nitrate with a neutra solution of hydroxylammonium chloride or hydroxylammonium sulphate with a pH value of 8 and more, uranium is retained as a complex in the solution. At pH < 8 yellow, difficultly soluble crystals are formed. These crystals are insoluble in some cr- ganic solvents. The formula $[\rm NH_3OH]_2UO_4.H_2O$ resulted from the
Card 1/3	analysis. The complex solution of hydroxylammonium uranate $(pH \ge 8)$ remains stable for several months. From these solution uranium cannot be reduced or precipitated even by the action of alkali liquor at high temperatures. In the case of a large ex-

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SOV/78-4-4-26/44 , On Complex Compounds of Hexavalent Uranium With Hydroxylamine cess of hydroxylamine and a pH value of 9.5 light absorption corresponds to the Lambert-Beer law. With the action of methanolia hydroxylamine on an alcoholic solution of uranyl nitrate an amorphous precipitation of the composition $[NH_3OH]_2UO_4$ occure. The authors synthesized alkali salts of the uranyl-hydroxylarine compounds in a ratio of Me : U : $NH_2OH = 1 : 1 : 2$ (Me = the ion of the alkali metal). Further, the authors prepared the similar uranyl compounds with hydrazine, mono-, di-, and trimethylamine, di-, mono-, and triethylamine as well as ethylenediamine. No detailed experiments were made with this compounds. The following formula is suggested for soluble complex compounds of the uranyl ion with hydroxylamine: [ONH3 Me 110 HONHz The dilute aqueous solutions of pure compounds of this conposition can be hydrolyzed with the formation of sodium uranate. The authors investigated some properties of the compounds such as solubility, density, and electric conductivity. The electric Card 2/3

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	SOV/80-32-2-48/56
AUTHORS:	Kuznetsov, V.A., Antipina, A.A., Buryakovskaya, R.I.
ritle :	Investigation of the Specific Electric Conductivity of Aqueous Solutions NaCl _{sat} + NaOH in the Temperature Range 75 - 95°C (Issledovaniye udel'noy elektroprovodnosti vodnykh rastvorov NaCl _{NAS} + NaOH v oblasti temperatur 75 - 95°)
PERIODICAL:	Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 2, pp 456-458 (USSR)
ABSTRACT:	The specific electric conductivity of saturated NaCl + NaOH solutions is very important for the electrolysis of salt solutions. Experiments were carried out at temperatures of 75, 80, 85, 90 and 95°C. The results are shown in a table. There is 1 Soviet reference.
SSOCIATION:	Ural'skiy Gosudarstvennyy universitet imeni A.M. Gor'kogo (Ural State University imeni A.M. Gor'kiy)
SUBMITTED:	September 23, 1957
Card 1/1	

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Investigation of Electrocapillary Phenomena in Bismuth .. Cadmium Alloys and of the Surface Tension of These Alloys in Vacuum glass vessel (Fig 2) was used for and a method earlier described was applied to a determination of the density of the alloy under discussion. M. Yagofarova assisted in the last-mentioned measurements. The (EP), surface tension (ST), and density (D) ware investigated at 450°C. Results (Table 7 on (EP), Tables 2, 3 on (ST) and (D) led to the following conclusions, Increasing Bi concentration in the (A) reduces the (ST) at the boundary between the (A) and the electrolyte as well as in vacuum. The (ST) is most strongly reduced at low Bi concentrations, at which also the potential maximum of the electrocapillary lines (EL) is strongly shifted in the opposite direction. Calculations of the adsorption Γ_{Bi} at the boundary between (A) and electrolyte at the potential maximum (PN) of the (EL) indicated that there exists a linear dependence between the shift of the (PM) of the (EL) and the surface concentration \mathcal{A}_{Bi}^{t} . The authors then explain measurement results or the (ST) in vacuum in connection with modern theories of the (ST) of binary systems, and calculate the (ST) isothermal lines by an equation given in Card 2/3 reference 5. The essential difference between the experimentally CONTRACTOR FROM THE

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Dismuth ASSOCIATION: SUBMITTED;	tion of Electrocapillary Phenomena in SOV/76-33-7-16/40 Cadmium Alloys and of the Surface Tension of These Alloys in Vacuum contained and calculated (ST) values (Table 3) is explained by interatomic reactions; the authors further give an explaination of the difference between the individual interatomic distances in the surface layer and inside the (A). The similarity between the isothermal lines of the (A) surface tension in vacuum and equal composition of the (A) surface layers in both cases. There are 6 figures, 3 tables, and 19 references, 17 of which ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo Sverdlovsk (Ural State University imeni A. M. Gor'kogo January 2, 1956	
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5(4) AUTHORS:	Kuznetsov, V. A., Aksenov, V. I., 	SOV/20-128-4-35/65
TITLE:	Zero Charge Potentials of Tellurium-	Phallium Alloys
PERIODICAL:	Doklady Akalemii nauk SSSR, 1959, Vol pp 763-766 (USSR)	128, Nr 4,
ABSTRACT :	The system Te-Tl was chosen because th - according to data by S. Karpachev and have very different zero charge potent determination of the dependence of the of an alloy on its composition. The zero were determined by investigating the of properties of the liquid metals and all of the capillary electrodes was referry fused lead, the experimental temperature shows the electrocapillary curves of the their alloys. An addition of Tl (up to lowers the maxima σ_{max} increases a	nd A. Stromberg (Ref 1) - tials facilitating the a zero charge potential ero charge potentials electrocapillary lloys. The potential red to an electrode of are was 475°. Figure 1 the two components and o 25 atom%) to Te capillary curves. At
Card 1/3	tions were made by A. N. Frumkin and A	

Zero Charge Potentials of Tellurium-Thallium Alloys SOV/20-128-4-35/65 on the electrocapillary curves of Hg and Tl amalgam. They explained this phenomenon by the fact that the field of the electric double layer influences the adsorption of the alloying constituents in the surface film. Figure 2 shows the dependence of the zero charge potential on the composition of the alloy. With an increasing content of Tl, the zero charge potential shifts in the negative direction. According to A. N. Frumkin, this is explained by a varying charge of the Tl adsorbed on the surface film. Θ_2 is determined - the fraction of the surface film occupied by particles of the second component (T1). From the equation $d\sigma_{max} = -\Gamma_1 d\mu_1 - \Gamma_2 d\mu_2$ ($\Gamma_1 = Gibbs'$ surface density of Te, Γ_2 = the same for Tl, μ_1 , μ_2 = chemical potentials for Te and Tl), an equation is derived for $\Gamma_1 = 0$: $\Gamma_2^{(1)} = \frac{d\sigma_{max}}{d\mu_2}$ The activity of Tl was determined by measuring the electromotive force of the concentration chain Tl/eutectic mixture LiCl +KCl + 2% by weight of TlCl/alloy Tl-Te. The measurement results are given in table 1. Figure 3 shows the Card 2/3

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Zero Charge Po	otentials of Tellurium-Thallium Alloys SOV/20-128-4-35/65
	dependence of $\prod_{2}^{(1)}$ on the alloy composition. A strong
,	deviation from Racult's law is ascertained. This suggests that the surface film consists of dipoles and is not mono- molecular. Similar phenomena were observed for the Tl amalgam by A. N. Frumkin and N. S. Polyanovskaya (Ref 6). Therefore, the potential shift for mono- and bimolecular layers was computed (Table 2), the assumption of a bimolecular layer showing a better agreement with the experimental data. The computation of θ_2 confirms the assumption made by A. N. Frum-
	kin (Ref 4) stating that the shift of the zero charge potential is directly proportional to the fraction of the surface film occupied by the metal added. There are 3 figures, 2 tables, and 7 references, 6 of which are Soviet.
ASSOCIATION;	Ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo (Ural State University imeni A. M. Gor'kiy)
PRESENTED:	April 13, 1959, by A. N. Frumkin, Academician
SUBMITTED: Card 3/3	March 5, 1959

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KARABASH, A.G.; MOSEYEV, L.I., HUZNETSOV, V.A. Coextraction of trace elements in the extraction of chlorides with ether. Zhur.neorg.khim. 5 no.6:1358-1365 Je '60. (MIRA 13:7) (Extraction (Chemistry)) (Chlorides) 行用制度

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	S/076/60/034/05/23/038 B010/B002
	B010/B002
/ P. 9100 AUTHORS :	Kuznetsov, V. A., Zagaynova, L. S., Ivanova, G. P., Klevtsova, M. P.
TITLE: V	Investigation of Electrocapillary Phenomena in Tellurium -
PERIODICAL:	Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 5, pp. 1077-1082
had almostly	tigations of electrocapillary phenomena in pure liquid metals // been carried out by <u>S. V. Karpachev</u> , <u>A. G. Stromberg</u> , <u>V. P.</u>
Kochergin, Y	e. F. Iordan, E. N. Rodigina, V. A. Smirnov, and D. 1.
of the zero	charge is directly proportional to the concentration of the
af the smean	nt names investigated the electrocability phenomena of io-nu
antiwity was	5°C in the concentration range of 0-44 atom% Au. The tellurium determined by the Knudsen method. Results of investigations
(Fig 1 pla	strocanillary curves) show that the addition of Au to reade
to a rise in	the surface tension between the phases. The potentials of the
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Investigation of Electrocapillary Phenomena in Tellurium - Gold Alloys

S/076/60/034/05/23/038 B010/B002

peaks of the electrocapillary curve do not change with the alloy composition and are in agreement with the potential of the peak of the electrocapillary curve of pure tellurium (i.e., 0.6 v with respect to an electrode of molten lead). This fact is discussed on the basis of the theory worked out by A. N. Frumkin concerning electrocapillary phenomena, and is explained by the fact that gold occupies the surface layer to a low degree only (maximum 5%). The adsorption of Te and Au, as well as the degree of their surface layer occupation were calculated (Tables 1 and 2). Tellurium is adsorbed positively and gold negatively in the surface layer, i.e., gold is considerably more surface-inactive than tellurium. A paper by A. V. Gorodetskaya and R. M. Vasenin is mentioned in the text. There are 2 figures, 2 tables, and 11 references: 8 Soviet, 2 German, and 1 English.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo, Sverdlovsk (Ural State University imeni A. M. Gor'kiy, Sverdlovsk)

SUBMITTED: July 21, 1958

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S/076/60/034/06/31/040 B015/B061	
Kuznetsov, V. A. Klevtsova, M. P., Zagaynova, L. S., Vayntraub, L. S. Korobova, T. A. (Sverdlovsk)	
Sn-Te Alloys and the Electrocapillary Phenomena on Sn-Te	iđ
malgams (Ref. 1), A. N. Frumkin established that the dif- e potentials between the metals in the point of zero charges the differences in the contact potentials between the same acuum. Experimental tests of this assumption were carried imes as by S. V. Karpachev and A. G. Stromberg (Ref. 2), and M. Proskurnin (Ref. 3), and V. A. Smirnov and L. I. . 4); few reliable results were, however, obtained. In this	
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	S/076/60/034/06/31/040 B015/B061 Kuznetsov, V. A. Klevtsova, M. P., Zagaynova, L. S., Vayntraub, L. S. Korobova, T. A. (Sverdlovsk) Investigation of Contact Potential Differences Between Sn an Sn-Te Alloys and the <u>Electrocapillary Phenomena</u> on Sn-Te Alloys // Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 6, pp. 1345-1350 count of his investigations of the electrocapillary phenomena malgams (Ref. 1), A. N. Frumkin established that the dif- ne potentials between the metals in the point of zero charges the differences in the contact potentials between the same accuum. Experimental tests of this assumption were carried times as by S. V. Karpachev and A. G. Stromberg (Ref. 2), and M. Proskurnin (Ref. 3), and V. A. Smirnov and L. I. C. 4); few reliable results were, however, obtained. In this we examinations were carried out for this reason, as it was

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Between Sn an	n of Contact Fotential Differences nd Sn-Te Alloys and the Electro- enomena on Sn-Te Alloys	8/076/60/034/06/31/040 B015/B061	
and the colline for Electroc by M. V. Smi	ally, Academician A. N. Frumkin is f aborator of the Institut elektrokhi <u>hemistry of the AS USS</u> R) <u>N. A. Shurn</u> rnov (Ref. 5) is referred to. There ences: 11 Soviet and 1 American.	.mii AN SSSR (<u>Institute</u> 10vskaya as well. A paper	
SSOCIATION:	Ural'skiy universitet im. A. M. Gom imeni A. M. Gor'kiy)	r'kogo (<u>Ural University</u>	
SUBMITTED:	October 10, 1958		
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KUZNETSOV, V.A.; ZAGAYNOVA, L.S. Zero charge potential if indium. Zhur. fiz. khim. 35 no.7:1640 JI '61. (MIRA 14:7) 1. Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo, Sverdlovsk. (Indium---Electric properties)

23815 \$/020/61/138/001/020/023 B101/B231 26.2531 Kuznetsov, V. A., Zagaynova, L. S., Loginova, N. P., AUTHORS: Lyubimtseva, I. Ya., Onopriyenko, N. S., and Tsimbal, L. Ye. Contact potential differences between some liquid metals and TITLE: their alloys Doklady Akademii nauk SSSR, v. 138, no. 1, 1961, 156-158 PERIODICAL: TEXT: This is to continue the authors' research on contact potential differences between liquid metals and their alloys (ZhFKh, $3\dot{4}$, 1349 (1960)). The contact potential differences were determined thermoelectronically by recording the volt-ampere characteristics of a dicde with once the pure metal and then the alloy being used as anode. Based upon the assumption that the contact potential difference is approximately equal to the difference of the zero charge potential and on the grounds that there is a great difference between the zero charge potentials, it appears advantageous to determine the contact potential difference (CPD) particularly between Zn, Cd. Tl, and Bi on the one hand, and their respective alloys with Te on the other. Difficulties that arose were due Card 1/6

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Contact potential differences between...

to the fact that Zn and Cd have an excessively high vapor pressure and that a number of these metals, inclusive of Bi, form compounds with Te. The contact potential difference was, therefore, determined: 1) for Sn and Sn-Tl alloy (23.8 % Tl) (Fig. 1); 2) for Tl and Tl-Sn alloy (49.8% Sn) (Fig. 2A); 3) for Tl and Tl-Te alloy (50.5% Te) (Fig. 25); 4) for Bi and Bi-Te alloys (3.6 % Te and 9 % Te). Bi and Sn were to be filed mong the purity class B-3 (V-3); T1 contained about 0.02 % of Fe. Pb, and Cd impurities (spectroscopically determined by R. Gutkina). Te was twice distilled in a vacuum. All the measurements were made at a temperature of 450°C. The method applied was described in the above-mentioned reference. Results: for Sn/Sn + T1 CPD = 0.17 v; for T1/T1 + Sn CPD = 0.25 v; for T1/T1 + Te CPD = 0.65 v; for B:/Bi + Te CPD = 0.3 and 0.35 v, respectively. Fig. 3 shows the zero charge potentials for Sn-Te alloys as a function of their composition. This implies that the CPD between the metals and their alloys under consideration is close to the difference of the zero charge potentials, which has proved to be valid also for Bi/Bi + Te (difference of zero charge potential with 3.6 % Te equal to 0.25 v, with 9 % Te equal to 0.33 v). The fact that the volt-ampere characteristics of Tl-Sn, Tl-Te, and Bi-Te alloys are shifted in positive direction indicates that the work

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Contact potential differences between	S/020/61/138/001/020/023 B101/B231	
function in these alloys is greater than in with the zero charge potential difference (the opposite effect. The authors thank Aca discussion. There are 4 figures and 5 refe 1 non-Soviet-bloc.	Fig. 3), Sn-Tl alloy shows demician A. N. Frumkin for a	
ASSOCIATION: Ural'skiy gosudarstvennyy uni (Ural State University im. A.	versitet im. A. M. Gor'kogo M. Gor'kiy)	
PRESENTED: December 10, 1960, by A. N. F.	rumkin, Academician	
SUBMITTED: November 25, 1960.	X	
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KUZNETSOV, V.A.; SINYANSKAYA, R.I.; PORTNAYA, G.N.; VOLYNSKAYA, M.P.

Electrocapillary phenomena in Te-Ag alloys and surface tension of these alloys in a vacuum. Izv.vys.ucheb.zav.;khim.i khim.tekh. 5 no.3:428-432 '62. (MIRA 15:7)

1. Ural'skiy gosudarstvennyy universitet imeni A.M. Gor'kogo, kafedra fizicheskoy khimii.

(Tellurium-silver alloys) (Surface tension) (Electrocapillary phenomena)

CIA-RDP86-00513R000928130011-6"

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AUTHORS :	Volvnekeva	a (Klevtsova), M. P	•	. A., Balanova	. S. Ya.	
TITLE:		pillary effects on "			, ,	
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siderably potential of Tl and electrocaj electroly precipita	, were used to on the compose T1-Sb alloys pillery curves te and molten ted at 475°C	en because their ze o investigate the d sition of binary al were determined fr s at 475°C. A mixt lead as reference it was not possible . The emf of the g	ependence of th loys. The zero om the maximum ure of molten L electrode. Sin to investigate	e zero-charge -charge potent potential of iCl-KCl served ce a solid pha alloys contai	ials/ as se	4
determine ties diff show that	the activiti ered only sli the surface	weight TlCl Tl-Sb ⁺ es of Tl and Sb. T ghtly from Raoult's tension acting on t g content of Sb, an	he curves repre law. The elec he interface al	senting the ac trocapillary c loy-electrolyt	tivi- urves e de-	
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ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo (Ural State University imeni A. M. Gor'kiy)	
SUBMITTED: October 28, 1961	
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Electrocapillary phenomena on zinc-tin of these alloys in vacuo, Elektrokhimit	La 1 no.6:676-681 Je '65. (MIRA 18:7)
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24,716	S/070/62/007/002/022/022 E132/E160	
AUTHORS :		
TITLE:	Apparatus for growing single crystals from the melt under pressure	
PERIODICAL:	Kristallografiya, v.7, no.2, 1962, 334-336	
A closed fu insulation, of 200 atm were grown. There are 3	figures.	B
ASSOCIATION	I: Institut kristallografii AN SSSR (Institute of Crystallography, AS USSR)	
SUBMITTED:	June 26, 1961	
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SHTERNBERG, A.A.; KUZNETSOV, V.A. Crystallisation of corundum from the gaseous phase using seed crystals. Kristallografiia 9 no.1:121-123 Ja-F '64. (MIRA 17:3) 1. Institut kristallografii AN SSSR.

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\$/0070/64/009/001/0123/0124

AUTHOR: Kuznetsov, V. A.

TITLE: Rate of surface growth on corundum under hydrothermal conditions

SOURCE: Kristallografiya, v. 9, no. 1, 1964, 123-124

TOPIC TAGS: corundum, crystal surface, surface growth rate, hydrothermal condition, seed rod, autoclave, thermocouple, surface orack, inclusion, seed orientation

ABSTRACT: The rates of growth of various crystalline surfaces on leucosapphire have been studied. Experiments were conducted in steel 130-150 cm³ autoclaves lined with silver and heated in a resistance furnace with a bottom heating element. Temperatures were measured on the interior wall with two thermocouples, one placed at the level of melting and the other at the level of crystal growth. The temperature drop between the two zones was 50-60C, and the temperature at the melting zone was 590-600C. The level in the autoclave was held constant and the pressure did not exceed 1500 atm. Crushed boules of leucosapphire and faintly colored ruby were used as source material. A 15% aqueous solution of soda with 5% of NaCi served as solvent, and ruby rods 3-4 mm long and 100 mm long were used as seed crystals. In

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the course of growth surfaces (0001), (1120), (1011), and (2243) developed. The growth rate of the first three types was determined by measuring their thicknesses. The last type suffered distortion too rapidly to allow accurate measurements. While the absolute velocities of growth changed with various factors, their relation to one another remained constant at 100:20:1. Differently oriented rods favored the development of different surfaces, varying in the density of cracks and inclusions. This proves that proper orientation is extremely important in hydrothermal production of corundum crystals. "The author thanks A. A. Shternberg for help in this work." Orig. art. has: 1 photograph.

ASSOCIATION: Institut kristallografii AN SSSR (Institute of Crystallography AN SSSR)

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COPIC TAGS: marine nucl propulsion, nuclear p	ear propulsion, marine engine ropulsion, nuclear power pla	neering, marine ant
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LUKASHEV, K.I. [Lukashou, K.I.]; <u>LUENETSOV, V.A.</u> [Kuznetsou, V.A.] Some problems in the use of isotopes in solving geológical and geochesical problems. Vestai AN BSSR. Ser.fis.-tekh.nav. no.3194-106 (MIRA 1319) (Raidoisotopes) (Geological research)

APPROVED FOR RELEASE: 06/19/2000

100 KUZNETSOV _fi LUKASHOU, K.I.; KUZNYATSOU, U.A. Action of elementary particles in geochemical processes. Vestai AN BSSR.Ser.fiz.-tekh.nav. no.1:74-83 '62. (MIRA 16: (Particles (Nuclear physics)) (Geochemistry) (MIRA 16:9)

APPROVED FOR RELEASE: 06/19/2000

ACCESSION NR: AP4014232	s/0201/63/000/004/0085/0091
UTHORS: Lukashev, K. I.; Kuznetsov, V. A	Succession and the second s
TITLE: Interaction between geochemical and problems	d cosmic processes and certain geochemical
SOURCE: AN BSSR. Izvestiya. Ser. fizt	ekhn. nauk, no. 4, 1963, 85-91
TOPIC TACS: geochemical process, geologic cosmic dust, astronomic phenomena, chemical volcanism, earth structure, meteor composi ABSTRACT: This article presents complex is cosmic processes in the light of new data interrelation is based on the exchange of the effect of cosmic rays with the earth's greatly affected by solar activity which a chemical processes on the earth. By now t tope composition of matter on the earth an also known that the distribution of chemic $Card_1/2$	l element, isotope formation, orogeny, tion nterrelations between geochemical and obtained from the cosmic flights. This matter between earth and cosmos and on matter. The scope of this effect is lso causes the cyclicity in the geo- he identical nature of chemical and iso- d in the cosmos has been proven. It is

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LUEASHEV, K.I.; KUZNETSOV, V.A.

Relationship between geochemical and commic processes and some geochemical problems. Vostsi AN BSSR. Ser. fiz.-tekh. nav. no.4: 85-91 463. (MIRA 17:12)

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FA 1T115 USSR/Geology Mineral Deposits - Mercury 1947 3 "On'the Mercury Deposits of Western Siberia" by V A Kusnetzov, A A Saukov, 1 p er Le "Izv Akad Nauk USSR Ser Geol" No 2 Locations of deposits at Salair, Ala-tau, Minusinsk, Kuznets Basin, Altaye-Sayanak. A summary of a monod. . 1T115 iter. .

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H 41133 KUZNETSOV, V. A. USER/Geology Jan/Feb 1948 Tectonics "Tectonics of the Western Tuva on the Junction with the Altay Mountains," V. A. Kurnetsov, 16 pp "Izv Akad Nauk SSSR, Ser Geol" No 1 Discusses the tectonics of the orographic and tectonic nodules at the junction with the western Aayan, the Altay Mountains, and the Tannu-Ola Range. Directs particular attention to the structure of the tectonic blocks. Conforms the immature nature of the differential movement of the blocks, which are the reason for the contemporary relief of this region. A 1. 411733

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KUZNETSOV,	V. A.		
	Myr 1948 Wein/Geology Rock Formation "Hyperbasic Belts of the Sayan-Altai Mountain Sys- tem," V. A. Knznetsov, Western Siberian Br, Acad Sci USSR, 3 pp "Dok Akad Nauk SSSR, Nova Ser" Vol IX, No 2 Presents data to prove incorrect the general suppo- sition that the vestern Siberian regions are poor sition that the vestern Siberian regions are poor in hyperbasic rock formations. Submitted by Acade- mician V. A. Obruchev, 2 Feb 1948.		
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V KUZNETSOY_ A., 27/49162 P4 linear, plicated structures, or the plicated zone. Submitted 22 Nov 48. Separates internal divisions of Tuva into two distinct regions: (1) the internal region of Tuva, a platform structure of the movable slab type, or the USSR/Geology "A Diagram of the Structural Geology (Tectonics) of Tuva and Its Position in the Altay-Sayanskiy Mountain System," V. A. Kuznetsov, Western-Siberian Assoc, Acad Sci USSR, 3 pp "Dok Ak Mauk SSSR" Vol LXIV, No 4 USSR/Geology atadle body, and (2) the peripheral region of the Orology Tectonics (Contd) • 27/49162 27/49162 Feb 49 Feb 49 ø ĥ 2 1953254 92 225 31 2 49 29 TERMETER VIEW AND A CARACTER AND A REAL AND A CARACTER A

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· · · · A. 177141 USSR/Geophysics - Geology (of Tuva) "The Zone Joining West Sayan and Tuva, " V. A. Kuz-Nov/Dec 50 "Iz Ak Nauk SSSR, Ser Geol" No 6, pp 92-95 Geol structure of the Tuva and Sayan Oblasts interests many investigators trying to solve certain problems on geol developments of these adjacent territories. Includes critique of opinions of G. A. Kudryavtsev on geol of Sayan and Tuva. 1월(국민왕왕) (1875년) (1 1976년) (1876년) (18 1976년) (1876년) (18

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Southern regions of the Altai- Altai, Southern Sayan, Western 45-57 '52. (Altai MountainsGeology) (Sayan MountainsGeology)	Sayan Mountain Range (mountains Tuva). Trudy Lab.geol.dokem.no (MIRA 7 (GeologyAltai Mountains) (GeologySayan Mountains)	.1:
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KUZNETSOV, V. A.

Stratigraphic Position of the Hyper asites of Tuva and West Sayan Izv. Tomskogo politekhn. in-ta, 74, No 1, 1953, 108-114

Associates of the West Siberian affiliate of the Academy of Sciences USSR have established that all the hyperbasitic massifs in the limits of the single thick Altay-Sayan zone are contemporaneous (same geologic age). The overwhelming majority of the hyperbasitic zones of the Altay-Sayan mountain system is Cambrian. (RZhGeol, No 1, 1954)

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191. 1984 L 🛕 Kornetser, K.A. 137-1957-12-22825 Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 3 (USSR) AUTHOR: Kuznetsov, V.A. TITLE: The Coordinating Commission on the Problem of Rare Metals in the West-Siberian Branch /of the AN SSSR/ (Koordinatsionnaya komissiya po probleme redkikh metalov v Zapadno-Sibirskom filiale) PERIODICAL: Izv. vost. fil. AN SSSR, 1953, Nr 3, p 135 ABSTRACT: The Commission was concerned primarily with the revision of the subject planning of the various institutes. The Commission coordinates the plans of the separate laboratories and institutes. Reports on the completed phases of the work as presented by their authors, were evaluated. 1. Metallurgy-USSR 2. Reports-Coordination P. N. Card 1/1

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: · KUZNETSOV, V.A. Promitive in the balance in the second state and Letter to the editor, Izt. AN SSSR. Ser.geol. 19 no.2:146-147 (Altai Moustains--Rocks, Igneous) (Rocks, Igneous--Altai Mountains)

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PEC-1. GENERAL AND KUZNETSOV, VA. PINUS, G.V., KUZNETSOV, V.A., VOLOKHOV, I.M.; LEONT YEV, L.I., doktor geologomineralogicheskikh neuk; otvetstvennyy redaktor; LADYCHUK, L.P., redaktor izdatel'stva; ASTAF'YEVA, G.A., tekhnicheskiy redaktor. [Hyperbasic rock of Tuva] Giperbasity Tuvy. Moskva, Izd-vo Akad. nauk SSSR, 1955. 133 p. (Trudy Tuvinskoi kompleksnoi ekspeditsii, (Tuva Autonomous Province-Petrology) (MIRA 10:5)

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iperbazity Altaye the Altay-Sayan 293 p. 1,000 c	-Sayanskoy skladchatoy oblasti (Ultraba skaya Folded Region) Moscow, Izd-vo AN opies printed.	sic Rocks of SSSR, 1958.
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lesp. Ed.: A.P. Ed.: P.S. Kashin	Lebedev; Ed. of Publishing House: G.G.	Mergasov; Tech.
URPOSE: The texti in the search fo	book is intended for exploration geologi or minerals genetically related to ultra	sts engaged basic rocks.
OVERAGE: This is of the Altay-Say ultrabasic zones petrographic cha	the first summary treatment of the ultr van folded region. The book describes t s, the distribution of both zones and ma aracteristics of rocks and related forma uical characteristics of the complex. I	abasic rocks he various ssifs, the

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citing the current opinions of other authorities, the writers offer their own concepts on magnatics and the origin of the ultrabasic rocks of the region. There are 59 diagrams, 14 tables, and 213 ref- erences of which 184 are Soviet, 25 English, 2 German, 1 Dutch, and 1 French. TABLE OF CONTENTS: Introduction I. Brief Outline of the Studies Made of the Ultrabasic Rocks of Western Siberia II. Brief Geological Description of the Altay-Sayanskaya Region and the Distribution of Pattern of its Ultrabasic Intrusives III. Characteristics of Ultrabasic Zones of the Altay-Sayanskaya Kuznetskiy Alatau ultrabasic zone Tuva	Ultrabasic rocks (Cont.) SOV/1485	. •
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KUZNETSOV, V.A. Fermation and spacial distribution of mercury deposits in Altai and Sayan folds. Zakenem. razm. pelezn. iskep. 1:302-314 '58. (MIRA 12:3) 1. Institut geelegii 1 geefiziki Sibirskege etdeleniya AN SSSR. (Altai Mountains---Mercury eres) (Sayan Mountains--Morcury eres)

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AUTHOR:	Kuznetsov, V.A. 11-58-4-7/16	
TITLE:	On the Age of the Hyper-Basic Intrusions of the Altay Mountains (O vozraste giperbazitovykh intruziy Cornogo Altaya)	
PERIODICAL:	Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958, Nr4, p976-87 (USSR)	
ABSTRACT:	The author describes the results of a survey made to verify the reports of the finding of hyper-basic rocks of relatively young Hercynian age, in the Altay region (Ref. 6,7 and 9). The de- tailed study of all important hyper-basic rocks in the region showed that these intrusions were typical results of the magma- tism of earlie. development stages of sliding zones, or (in this case) of folding structure of the Caledonian Period and be- longed to the Cambrian era. Their attribution to the Hercynian period was the result of superficial and erroneous observation. Detailed descriptions of these intrusions are given. There are 5 figures and 23 Soviet references.	
ASSOCIATION:	Zapadno-Sibirskiy filial AN SSSR, Novosibirsk (West Siberian Branch of the AS USSR, Novosibirsk)	
SUBMITTED: Card 1/1	December 14,1956 1. Geological time-Determination 2. Geology-USSR	
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Age of volcanogenic sedimentary strata in the southwestern wing of the Kholzun-Chuya anticlinorium in the Rudnyy Altai. Dokl.AN SSSR 138 no.31643-646 My '61. (MIRA 14:5)

1. Saratovskiy gosudarstvennyy universitet im. N.G.Chernyshevskogo. Predstavleno akademikom D.V.Nalivkinym. (Khamir Valley---Geglogy, Stratigraphic)

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VOLOKHOV, I.M.; PINUS, G.V.; KUZNETSOV, V.A. and the second states in

> Genetic types of magnesium-silicate deposits in the Altai-Sayan folded area, and their distribution. Zakonom. razm. polezn. (MIRA 16:6) iskop. 6:48-60 '62.

> 1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. (Altai Mountains-Magnesium silicates) (Sayan Mountains-Magnesium silicates)

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KUZNETSOV, V.A.; TYCHINSKIY, A.A.; SHCHERBAN', I.P. Heterogeneity of quartz-carbonaceous rocks of listvenite habit and their association with mercury ores. Geol. i geofiz. no.l0:132-146 '62. (MIRA 15:12) l. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk. (Altai Mountains-Ore deposits) (Sayan Mountains-Ore deposits)

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DZEVANSKIY, Yu.K.; DODIN, A.L.; KONIKOV, A.Z.; KRASNYY, L.I.; MAN'KOVSKIY, V.K.; MOSHKIN, V.N.; LYATSKIY, V.B.; NIKOL'SKAYA, I.P.; SALOP, L.I.; SALUN, S.A.; RABKIN, M.I.; RAVICH, M.G.; POSPELOV, A.G.; NIKOLAYEV, A.A.; IL'IN, A.V.; BUZIKOV, I.P.; MASLENNIKOV, V.A.; NEYELOV, A.N.; NIKITINA, L.P.; NIKOLAYEV, V.A.[deceased]; OBRUCHEV, S.V.; SAVEL'YEV, A.A.; SEDOVA, I.S.; SUDOVIKOV, N.G.; KHIL'TOVA, V.Ya.; NAGIBINA, M.S.; SHEYNMANN, Yu.M.; LYAPICHEV, G.F.; NALIVKIN, D.V., glav. red.; VERESHCHAGIN, V.N., zam. glav. red.; MENNER, V.V., zam. glav. red.; OVECHKIN, N.K., zam. glav. red.[deceased]; SOKOLOV, B.S., red.; SHANTSER, Ye.V., red.; MODZALEVSKAYA, Ye.A., red.; CHUGAYEVA, M.N., red.; GROSSGEYM, V.A., red.; KELLER, B.M., red.; KIPARISOVA, L.D., red.; KOROEKOV, M.A., red.; KRASNOV, I.I., red.; KRYMGOL'TS, T.Ya., red.; LIBROVICH, L.S., red.; LIKHAREV, B.K., red.; LUPPOV, N.P., red.; NIKIFOROVA, O.I., red.; POLKANOV, A.A., red.[deceased]; RENGARTEN, V.P., red.; STEPANOV, D.L., red.; CHERNYSHEVA, N.Ye., red.; SHATSKIY, N.S., red.[deceased]; EBERZIN, A.G., red.; SMIRNOVA, Z.A., red.izd-va; GUROVA, 0.A., tekhn. red. [Stratigraphy of the U.S.S.R. in fourteen volumes. Lower Pre-Cambrian] Stratigrafiia SSSR v chetyrnadtsati tomakh. Hizhnil Dokembrii. Meskva, Cos. nauchno-tekhn, 12d-vo lit-ry po geologii 1 okhrane nedr. Pt. 1 (asiatic part of the USSR) 1963. 396p.

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Tectonic regionalization and basic features of endogenetic metallogeny in the Gornyy Altai. Trudy Inst. geol. i geofiz. Sib. otd. AN SSSR no.13:5-68 '63. (MIRA 17:6)

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MUZNE/SOU, U.A. Baku, 18-23 Sopt 1962 Regularities in the Formation and Distribution of Endogenous Minaral Recourse Doposits, 8/011/63/000/001/002/002 The Third All-Union Conference on... A006/A101 Group 2 included reports on--endogenous deposite in other synchial regions, such as mercury formations in Siberia and the Far East (V. A. Kuznetsov), pyrite deposite in the Ural (S. N. Ivanov), Kimeridgian and Alpine metallogeny in Uzbekistan (I. Ki. Khamrabayev); ore region types in the Pacific area (Ye, A, Radkevich); metallogeny in Tadzhi-kistan (K. I. Litvinenko); hydrothermally transformed rocks in the Trans-Carpathian region (M. Yu. Fishkin) peculiarities in magmatism and metallogeny of the Mguntaneous Crimea (V. I. Lebedinskiy), antimony-mercury fields (M. A. Karasik) and others. Group 3 included reports on the classification of metallogenous zones and provinces of the Earth crust (D. I. Ocrzhevskiy); classification of metallo-genous zone types of the Earth crust (V, N, Kozerenko); classification of magmatogenous non-metallic mineral resources as a basis of prognoses and prospecting matogenous non-metallic mineral resources as a case of progress and prospecting (V, P, Petroy); types of metallogenous provinces in synclinal regions of the USSR (A, I, Semenov); principles of geological soning on the example of Central Asia (K, L_a Babayev); comparative characteristics of metallogeny in Malyy Caucasus and the Kamchatka-Koryak sone (I, O, Magak'yan), some particularities of metallogical geny in the Mediterranean geosynclinal region (O, A, Tralchrelides); rootless plutons and score peculiarities in the magnatism of moving zones (A. P. Lebedar); paragenetic ore complexes (P. S. Saakyan) the part of deep-lying breaks in metallogeny of syncline regions on the example of the Caucasus (E. Sh. Shikhalibeyli). The closing report was read by A. V. Sidorenko, Minister of Geology and Preservation of Mineral Resources of the USSR, fine Isvestiya Ak mank BBGR, Seriya Geologiaheshaya, No. 1,1963, pp 126-128 HEREN

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Professor IUrii Alekseevich Kuznetsov, Corresponding Member of the Academy of Sciences of the U.S.S.R.; on his 60th birthday. Geol. i geofiz. no.4:135-140 '63. (MIRA 16:10)

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