GOLUB, D.M.; AMVROS'YEV, A.P.; LEONTYUK, A.S.; NOVIKOV, I.I.; ORLOVA, B.L.; KHEYNYAN, F.B.
Data on the formation of new afferent pathways in the urinary bladder and large intestine. Arkh. anat. gist.i embr. 38 no.1:3-19 Ja '60. (MIRA 13:7)
1. Kafedra anatomii cheloveka (zav. - prof.D.M.Golub) Minskogo meditsinskogo instituta i laboratorii morfologii Instituta fiziologii Akademii nauk BSSR. Adres avtorovi Minsk, Universitetskaya ul., 2, Meditsinskij institut. Kafedra anatomii cheloveka. (BLADDER--INNERVATION) (INTESTINES--INNERVATION)



ORLOVA, B.L.; MORZON, M.A.

Innervation of the longitudinal spine ligaments. Vop. morf. (MIRA 16:10) perif. nerv. sist. no.6:46-57'63. (INTERVERTEBRAL DISK - INNERVATION)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

GOLUB, L.M., akadenik; ANCHESTYEV, A.L.; GAYRO, L.A.; LDATTON, A.S.; LEONTOUK, L.A.; MORHERT, V.A.; LOVIKOV, I.I.; O.LOVA, B.L.; FRCKOFCIUK, V.A.; SAVCHELKO, L.Ye.; KHEYNMAL, F.B.

[Formation of new nervous and vascular tracts in the organs of the small pelvis] Ubrazovanie novykh nervnykh i sosudistykh putei organov nalogo tazt. Tod red. D.1. Goluba. Minsk, 1994. 1984. (MICA 18:1)

Akademiya navuk BSS., Minch. Instytut Southalogii.
 Akademiya nauk Belorubskoy SSE (for Golub).

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

CRLOVA, D. This is the way a child grows. Zdorov'e 2 no.6:23-24 Je '56. (INFANTS--CARE AND HTOIRNE) (MIRA 9:8)





3



OBLOVA, D. Boarding school. Zdorov'e 2 no.ll:16-17 N '56. (MLRA 10:1) (BOARDING SCHOOLS)

 OBLOVA, D.

 Breed. Zdorov'e 3 no.1:6-8 Ja '57.

 (BRRAD)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123: OELOVA, D. Why did I do 1t1 Zdorov'e 3 no.2:27-28 P '57. (MLRA 10:3) (ABORTION) (NOTION-PIOTURE PLATS)

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Saving the heart. Zdorov's 3 no.7:8 J1 '57. (MLRA 10:8) (HEART--SURGERY)

GRICONA	, D.S			
AUTHOR:	Orlova, D.S.	25-11-15/28		
TITLE:	Happiness, Health, Life (Schast'ye, :	zdorov'ye, zhizn')		
PERIODICAL:	Nauka i Zhizn', 1957, # 11, pp 33-37 (USSR)			
ABSTRACT:	This article deals with the effort to control epidemic diseases, such as caused by parasitic worms, malaria, ef- achieved in this field, malaria, for eliminated due to the efforts made by P.G.Sergiyev, P.S.Dzhaparidze, P.P.P.C others. Today there are 2,780,000 me 225 scientific research institutes for Union. In the next 10-15 years attem liquidate mosquito fever, the "leishm trachoma and venereal diseases. In F Minister of Health, M.D.Kovrigina ann as a wide-spread mass disease will be next 15-20 years. There are six sketches.	s small pox, diseases tc. Good results were example, was completely v leading Soviet scientists opov, N.P.Rukhadze, and edical scientists and or medicine in the Soviet opts will be made to eanose" type skin disease, Pebruary 1957 the USSR		
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CIA-RDP86-00513R001238 "APPROVED FOR RELEASE: Wednesday, June 21, 2000

SOV/25-58-12-10/40 Orlova, D.S. AUTHOR: Toil - the Source of Health (Trud - istochnik TITLE: zdorov'ya) Nauka i zhizn', 1958, Nr 12, pp 28-32 (USSR) PERIODICAL: After severely criticizing the labor conditions of the pre-revolutionary epoch, the author gives a ABSTRACT: detailed account of the improvements made by the communists. Hundreds of physicians now guard the health of workers, reducing illness and diseases by preventive measures. The physicians assigned to the various factories and mines study working conditions on the job. They can order the shut-down of installations if work conditions are letrimental to the health of the laborers. Mine workers in the Soviet Union enjoy the shortest work day - 6 hours. Treatments with ultra-violet rays are available to all workers employed below the ground. A group of Soviet scientist-special-Card 1/2

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ORLOVA, D., prof., geroy sotsialisticheskogo truda For the sake of life. Zdorov's 5 no.6:7-8 je '59. (MIRA 12:11) (DAVIDOVSKII, IPPOLIT VASIL'SVICH, 1887-) (ANATONT, PATHOLOGICAL)

GRLOVA. D. Joy of creative work. Zdorov'e 5 no.9:7-8 5 '59. (MERA 12:11) (ZDRODOVSKII, PAVKL FRLIKSOVICH) (NICKNTTSIAL DISEASES)

a o alexandra secondar a substance en la la substance en la la substance en la substance en la substance en la

OELOVA, D. May mursery and kindergarten together. Zdorov'e 5 no.12:16-17 (MIRA 13:4) (CHILDREN--CARE AND HIGIEND)

ORLOVA, D. Diphthoria must vanish! Zdorov'e 6 no.7:16-17 Je '60. (MIRA 13:7)







ORLOVA,				
	Ray of hope.	Zdorov'e 7 no.8:7-8 Ag '61. (HEPATOLENTICULAR DEGENERATION)	(MI RA	14:9)
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 "APPROVED FOR RELEASE: Wednesday, June 21, 2000
 CIA-RDP86-00513R001238

 CIA-RDP86-00513R001238
 CIA-RDP86-00513R001238

ORLOVA, D. Iesterday, today, tomorrow. Zdorov'e 8 milit28-29 Ja '62. (MIRA 15:3) (CHILDREN--CARE AND HYGIENE) (WOMEN-HEALTH AND HYGIENE)



ZAGOREVSKIY, V.A.; ZYKOV, D.A.; ORLOVA, E.K. Some derivatives of gallic acid. Zhur. ob. khim. 30 no.9:3103-3104 S '60. (MIRA 13:9) 1. Institut farmakologii khimioterapii Akademii meditsinekikh nauk SSSR. (Gallic acid)

ZAGOHEVSKIY, V.A.; ZYKOV, D.A.; ORLOVA, E.K.

Synthesis of substituted 2-chromomecarboxylic acids and their esters. Zhur. ob. khim. 30 no.12:3894-3898 P *60. (MIRA 13:12)

1. Institut farmakologii i khimioterapii Akademii mediteinskikh nauk SSSR.

(Chromonecarboxylic acid)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

ZAGOREVSKIY, V.A.; ZYKOV, D.A.; ORLOVA, E.K. Conversion of 2-chromonecarboxylic acids to 4-chlorocumarins. Zhur. ob. khim. 31 no. 2:568-574 F '61. (MIRA 14:2) 1. Institut farmakologii i khimioteranii AMN. (Chromonecarboxylic acid) (Coumarin)

ZAGOREVSKIY, V.A.; ORLOVA, E.K.

Effect of additions on the rate of conversion of chromone-2-carboxylic acids to 4,4-dichlorochromene-2-carboxyl chlorides. Zhur.ob.khim. 33 no.6:1357-1859 Je '63. (MIRA 16:7)

1. Institut farmakologii i khimioterapii AMN SSSR. (Benzopyranone) (Benzopyrancarboxylic acid)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

ZAGOREVSKIY, V.A.; ZYKOV, D.A.; ORLOVA, E.K.

Interaction of chromene-2-carboxylic acid derivatives with amines. Zhur.ob.khim. 34 no.2:539-543 F '64. (MIRA 17:3)

Institut farmakologii i khimioterapii AMN SSSR.



ZAGOREVSKIY, V.A.; TSVETKOVA, I.D.; CRLOVA, F.X.
Interaction of 4,4-dichlorochromen-2-carboxylic acid derivatives with cyanoacetic ester. Zhur. ob.khim. 34 no. 5;1685-1686 My '64. (MIRA 17:7)
1. Institut farmakologii i khimioterapii AMN SSSR.


	क्ति संविद्यम्बद्धः स
L 30365_66 EWI(m)/EWP(t)/ETI IJP(c) JD/HW/JG/WB/GD ACC NR: AT6012379 SOURCE CODE: UR/0000/65/000/000/0119/0124	
AUTHORS: Orlova, F. A.; Shkatova, N. A. 59	
ORG: none	
TITLE: A study of the corrosion and electrochemical behavior of titanium and its alloys in solutions of perchloric acid SOURCE: Soveshchaniye po metallokhimii, metallovedeniyu i primeneniyu titana i yego splavov, 6th. Novyye issledovaniya titanovykh splavov (New research on titanium alloys); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 119-124 TOPIC TAGS: titanium, titanium alloy, corrosion resistance, electrochemical analysis, temperature, abraeire, perchloric acid / AT3 titanium alloy, AT6 titanium alloy,	
ABSTRACT: The results are given of a study of the corrosion and electrochemical behavior of a number of metal structural materials in solutions of perchloric acid as a function of its concentration, temperature, and solid phase compentration. <u>Chromium, chromium-nickel-molybdenum, chromium-nickel steel</u> , <u>nickel</u> and its alloys with chromium and molybdenum, aluminum and Duralumin, <u>lead</u> , <u>niobium</u> , <u>hitanium</u> , and <u>AT3</u> , <u>AT6</u> , and <u>AT8</u> titanium alloys were tested. The acid concentration ranged from	-

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From 0.12 to	sivation of tite	ure varied from O ns (when temperat anium and its all g. 1). The abras	oys. The titaniu	tion are increa m potential inc	reased
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CIA-RDP86-00513R001238

ORLOVA, F.A.; FUHANOVA, T.A.

Corrosion resistance and the electrochemical behavior of titanium and its alloys in mineral acia solutions in the presence of the oxidizing agents. Titan i ego splavy no.10.179-187 [63. (MIRA 17:1)

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8/2598/63/000/010/0179/0187 ACCESSION NR: AT4007039 AUTHOR: Orlova, F. A.; Tumanova, T. A. TITLE: Corrosion resistance and electrochemical behavior of titanium and titanium alloys in solutions of inorganic acids in the presence of oxidizers SOURCE: AN SSSR. Institut metallurgii. Titan i yego splavy*, no. 10, 1963. Issledovaniya titanovy*kh splavov, 179-187 TOPIC TAGS: titanium, titanium alloy, titanium alloy corrosion, titanium alloy electrochemical behavior, titanium tantalum alloy, titanium palladium alloy, titanium niobium -lloy, titanium molybdenum alloy ABSTRACT: Many organic syntheses involve chlorination in HCl solutions or nitration in H₂SO₄ solutions, which may be highly corrosive. The authors therefore investigated the corrosion resistance and electrochemical behavior of VT-1 Ti and its alloys containing 0.1-0.2% Pd, 20% Mo, 35% Nb or 20% Ta in solutions of HCl (10-33%) and H2SO4 (10-40%) in the presence of molecular chlorine, nitric acid and molecular oxygen. The corrosion resistance was determined by both electromechanical and gravimetric methods at 20, 60 and 90C. The tabulated data show that passivation of VT-1 Ti was produced only by Cl2 **Cord** 1/6

ACCESSION NR: AT4007039

or HNO3, not by oxygen, especially at higher temperatures. Curves in HCl and H2SO4 solutions were similar. As shown in Fig. 1 of the Enclosure, temperature has a significant effect on the electrochemical potential of Ti, and hence on its corrosion. Thus, saturation with chlorine maintained positive potentials at 20-90C in 10-12% HCl or 10-20% H_2SO_4 , and at 20-60C in 18% HCl or 40% H_2SO_4 , but only at 20C in 33% HCl. Both the potential and the corrosion rate were also found to be dependent on the amount of Cl_2 added. As shown in Fig. 2 of the Enclosure, HNO3 had a similar effect on corrosion and electrochemical potential; thus, in 18% HCl at 90C, passivation was produced by 0.5-1.0% HNO3, and high positive potentials appeared only at HNO3 concentrations above 10%. When alloy corrosion was studied in 18% HCl saturated with Cl₂ in cooperation with the Gosudarstvenny*y nauchno-issledovatel'skiy institut redkikh metallov (State Scientific Research Institute for Rate Metals), only the alloy with 20% Ta showed corrosion resistance up to 90C. The other alloys all showed corrosion rates comparable to that of unalloyed Ti, even though the electro chemical potential of alloys with Pd and Mo also remained positive (see Fig. 3 in the Enclosure). The reason for this discrepancy may be non-uniform distribution of the alloying element. Orig. art. has: 2 tables and 7 figures. ASSOCIATION: Institut metallurgii AN SSSR (Metallurgical Institute, AN SSSR) 2/6 Card









ORLOVA G.
SAVEL'TEVA, Y.e.; NONASTYREVA, N.; ORLOVA, G.; KUZEYEV, A.; FUFLYGINA, T.; LASKINA, V.; KOVALEVATA, Ye.V.
Effect of factors of external environment on the course of rhoumatism in children. Pediatriia, Moskva no.4:40-41 July-Aug 1953. (GIML 25:1)
1. Sixth course students under the supervision of Docent Ye. V. Kovaleva.
2. Of the Scientific Student Circle of the Department of Ghildren's Diseaces (Head of Department -- Prof. Tu. F. Dombrowskaya, Corresponding Member ANS USSR) of First Moscow Order of Lenin Medical Institute.

Sector France

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SHKLYAR, S.; ORLOVA, G.

Does fire blight of fruit trees occur in the U.S.S.R.? Zashch. rast. ot vred. i bol. 10 no.8:47-48 '65. (MIRA 18:11)

1. Moskovskoye otdeleniye Vsesoyuznogo instituta sel'skokhozyaystvennoy mikrobiologii i TSentral'naya laboratoriya po karantinu rasteniy Ministerstva sel'skogo khozyaystva SSSR.



ORLOVA, G.A. [Orlovs, H.A.]; CHERKASOVA, L.I.; SHESTERIKOVA, O.I.; SERCEYEVA. M.M.; TARASOVA, M.Kh.; KARUNSKIY, V.G. [Karuns'kyi, V.H.]; MISHINA, Z.D.; LEBELEVA, T.V.; ROZDYALOVSKIY, B.V. [Rozdialovs'kyi, B.V.]; DINSHITS, L.S.; ZATTSEV, A.B., glavnyy red.; SERCHTEV, H., otv. za vypusk; SERCENTEV, M.F., red.; BERGAR, F., tekhn.red. [Economy of Volyn' Province; a statistical menual] Narodne hospodarstvo Volyns'koi oblasti; statystychnyi sbirnyk. L'viv, Dershstatvydav, 1958. 211 p. 1. Volyn' (Province) Statystychne upravlinnia. 2. Statisticheskoye upravleniye Volynskoy oblasti (for all, except Sergeyev, N., Sergeyev, M.F.) 3. Nachal'nik Statisticheskogo upravleniya Volynskoy oblasti (for Zaytsev). (Volyn' Province--Statistics)

ORLOVA, G.A., kand. tekhn. nauk

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Study of seashores of the U.S.S.R.; conference at the Institute of Oceanography. Vest. AN SSSR 34 nc.7:106-107 J1 '64 (MIRA 17:8)

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and a second second

ORLOVA, G.A. Experiments in studying the slope transformation through erosion and the sand transport along the shore. Trudy Okean.kom. 8:235-239 '61. (MIRA 14:5) 1. Institut okeanologii AN SSSR. (Coast ohanges)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

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ORLOVA, G. A.,

"Application of the luminofore method to the quantitative determination of sand shifting"

Report to be submitted for the 13th General Assembly, Intl. Union of Geodesy and Geophysics (IUGG), Berkeley Calif., 19-31 Aug 63

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ORLOVA, G.A.

Experience in the determination of the amount of sand sediments heaving along the coast. Okeanologiia 3 no.5:924-929 '63. (MIRA 16:11)

1. Institut okeanologii AN SSSR.

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KOMLEV, A.M.; ORLOVA, G.A.

Minimum flow of rivers of the Gornyy Altai and its variation over a period of many years. Izv. Alt. otd. Geog. ob-va SSSR no.5:74-75 465. (MIRA 18:12)

1. Sibirskiy nauchno-issledovatel'skiy institut energetiki.

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ACC NR: AT7001794 hydrodynamic processes in coastal areas it is necessary first to identify the disturbance phases and to consider all changes within the limits of the phase. The active zone of shifting sediments extends to depths of 10 m. The intensity of active zone of corresponding water exchanges. Change of coast contour, amount of intensity of corresponding water exchanges. Change of coast contour, amount of sedimentation, and sediment composition is determined if first, by the relationship of factors responsible for the nature, direction, and intensity of material shifting: factors responsible for the nature, direction, and intensity of material shifting is actual ability of materials in the area under study and adjoining areas. Orig. art. has: 18 figures and 8 tables. SUE CODE: 08/ SUEM DATE: 17Apr66/ CRIG REF: 050/ OTH REF: 010

ASEYRVA, 1.1.; 10 7 Guer A, E.A.; URIEVA, G.G. Biogyntheolo if amino acids by antinomycetes isolated in the all if the remits. Microbiologia 34 General Inner Co. (Mich 1996) 1. Biologo-joervannyy fakulitet Meakriskogo posudarstver or or universiteta iment U.V. Dimension a.



LEVI, M.I.; SUCHKOV, YU.G.; ORLOVA, G.M.; GEBASYUK, L.G.; SHKUDA, A.M.; PEYSAEHIS, L.A.; STUGOVA, A.N.; LOFATINA, N.F.; SUKHARATECVA, N.A.; PAK, C.Y.; MUMINOV, K.M.; DOF SKAYA, T.N.; MASSOROV, L.C.; ULUBLA, V.I.; MURTAZANOVA, E.F ; STHELMAL, A.I.; LAVIENTEV, A.F.; GARANOV, N.N.; KULOV, G.I.; GOLKOVSKY, G.M.; SALADAPOV, N.I.; ZALYGINA, N.I.

Significance of serological methods in the epizootomysical study of plague in wild rodents. J. Svit. epidem. (Frain' Constants) - 200 104.

1. Institute of Scientific Pesearch, Mostov on the Don and Central Asian Institute of Scientific Research, U.S.S.R.

LEVI, M.I.; BASOVA, N.N.; SUCHKOV, Yu.G.; ORLOVA, G.M.; GERASYUK, L.G. MOMOT, A.G.

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Reaction of passive hemagglutination and reaction of antibody neutralization in some infections. Zhur. mikrobiol. epid. i immun. 33 no.10:40-45 0'62 (MIRA 17:4)

1. Iz Rostovskogo-na-Donu nauchno-issledovatel'skogo protivochumnogo instituta.

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L. Links





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0.11.0 S07/1-10-1-0.7. AUTHORS: Shehukarev, S. A., Bouldov, J. C., Orlova, G. M. TITLE: Concerning Heats of Solution of Colal' and Nickel Perchlorates Fexally instead PERIODICAL: Zhurnal obsheley kalmii, 1980, Voi Ku, Nr K. pp 1053-10号 (USSR) ABSTRACT: Heats of polytion of $Co(210_{\pm})_{\pm} + 5H = an \pm Nt(210_{\pm})_{\pm} + 5H = 2$ in water, it. while cannot of Hilphions, were mensured by the recented by recenther method (3. S. Shehakarez and others, ZhOKh, 20, 2400 (1997); S. A. Shehakarez and others, ZhOKh, 20, 240 (1997)). The recults detected were compare, with the presidently published data enheats of solution of Mg and Zn salts. The results are given in the Fig. A. According to their endothe mal effects of solution at infinite alletion, the investigated elements form the following series: $M_{\rm g} < Z_{\rm h} < 0.0 < M_{\odot}$. There are 1 table; 1 figure; and 4 Soviet references. Card 1/2





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	-3.1160,1454) a v Danila	ov, A. V., Abramova,
AUTHORS:	Goryunova, N. A., Orlova, G. m., I. I A. V., Plechko, H. L., Kozhina, I. I	
		fiziki i ktimil.
TITLE:	Universitet. Vestnik	r1ya 11210
PERIODICAL:	no. 4, 1701, 21	ium which form ted
TEXT: Of th	no. 4, 1901, 94 he possible quaternary analogs of german as, only the system ZnSe-GaAs has so far chose the system Cu-Ge-As-Se which has chose the system Cu-Ge-As-Se which has composition in the section Cu ₂ GeSe ₃ -CuG	a tetrahedral phase a As, The presence of
hedrai phase	-base the system of the Cu CeSe Cu	2^{-2}
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this phase	studied. 17 alloys from the quartz am	poules a + nm-7 (MIM-7) ns of an $mm-7$ (MIM-7)
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microscope	and microhardness with normal as well as a ere carried out with normal the alloys I	anging from 20
X-ray stru	ture of the construction with additional as denoted and microhardness with normal as well as denoted and out with normal as well as denoted that the alloys rectural analyses showed that the alloys rectural analyses are the showed that the alloys rectural analyses are the showed that the alloys rectural analyses are the showed that the showed the showed that the showed the show	
Card 1/3		

30866 5/054/61/000/004/007/009 B102/B138 Some quaternary analogs of ... Cu2GeSe3 CuGe2As3 to 4 0 Cu2GeSe3 CuGe2As3 were single-phase. The composition 1.5 Cu_2GeSe_3 CuGe₂As₃ contained two phases and Cu_GeSe, 0.4 CuGe As, three. The inhomogeneity increased with the As concentration of the composition All alloys contained a sphalerite-type structure with lattice constant $a = 5.54 \div 0.01 \text{ kX}$ A composition m:n = 1.6:1.0 - 4.0:1.0 gave single-phase alloys; (m = Cu₂GeSe₃. $n = CuGe_2Se_3$, min = 1.0:2 0; 3.0; 4.0 contained an additional phase with contained, apart from the common one, another sphaleritic phase with a = 4 41 - 0.01 kX. The second ZnS-type phase was separated by zone melting of Cu₂GeSe₃ CuGe₂As, with an optimum rate of 0.5 - 1.5 cm/hr and 7 - 10 cycles. In the transition from the ternary Cu_2GeSe_3 to the quaternary As-containing system, from 83.3 mole% m + 16.7 mole% n the distorted chalcopyrite lattice is rearranged into the regular ZnS lattice Lattice parameter and microhardness are not sensitive to composition The homogeneous region of composition ranges from Cu₅Ge₄As₃Se₆ to Card 2/3


- - - · · 25363 s/079/61/031/008/001/009 D215/D304 54120 Myuller, R.L., Orlova, G.M., and Tsuy Tszin'khua AUTHORS: The kinetics of dissolution of indium antimonide in TITLE: nitric acid Zhurnal obshchey khimii, 1961, v. 31, no. 8, 2457-2461 PERIODICAL: TEXT: Whilst there are many data on problems of pickling metals, the only kinetic data published in respect of semiconductors is concerning dissolution of Ge in HNO3. Similar methods were applied in the present work. 3 specimens of InSb monocrystals of cylindrical form were used, the HNO3 being previously freed from N oxides by insufflation of air. The experiments were carried gut in a thermostat which main-tained the temperature constant to 0.2 C. The velocity of dissolution $W = \frac{1}{236.5 \text{ S}} \cdot \Delta^{\text{B}}$ mol. per cm.² sec. was calculated by the formula Card 1/2

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CIA-RDP86-00513R001238 "APPROVED FOR RELEASE: Wednesday, June 21, 2000

25363 s/079/61/031/008/001/009 The kinetics of dissolution ... D215/D304 where $\Delta g = wt$.loss of specimen (g), $\Delta t = solution time (sec.), S.$ specimen surface, 236.5 = molecular wt. InSb. The range of concentration of HNO_3 was 0.97 - 12.37 N, the temperature range 20 - 80 C. Experiments were made with and without agitation of the solution, the effect of solution mixing rate being studied. Results indicate that in dilute solutions (1 -2.5N.) of HNO_3 , the rate of the InSb solution is determined by autocatalytic oxidation. In solutions of 7 - 12 N. HNO_3 , the rate is limited by diffusion of HNO3 to the InSb surface. With 4N.HNO3, the effect is intermediate between these two. There are 3 figures, l table and 4 references: 1 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: R. Maringer, J.appl.phys., 1958, vol.29, 1261; J. Venables and R. Brondy, ibid., 1025; P. Camp, J.Electrochem. Soc., 1955, vol. 102, 586; M. Cretella and H. Gates, ibid. 1958, vol. 105, 487. Leningradskiy gosudarstvenny universitet imeni A.A. ASSOCIATION: Zhdanova (Leningrad State University, imeni A.A. Zhdanov) SUBMITTED: August 19, 1960 Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

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25364 S/079/61/031/008/002/009 D215/D304

54120 Myuller, R.L., Orlova, G.M., and Tsui Tszin'khua **AUTHORS**: The kinetics of dissolution of indium antimonide in solutions of ferric chloride and iodine in hydrochloric TITLE: acid Zhurnal obshchey khimii, 1961, v. 31, no. 8, 2461-2465 PERIODICAL: TEXT: Monocrystalline n-InSb specimens of cylindrical shape were dissolved in HCl solutions of FeCl₃ and I, the solution flask being maintained at a temperature constant to 0.2° C in a water thermostat. The rate of dissolution was estimated by weight loss of the specimen which averaged 0.01 g. Magnetic mixing was used. Analytically pure hydrated FeCl₃, iodine, KI and HCl were used. FeCl₃ concentration in the solution was determined by the Zimmerman-Reinhardt method, iodine was determined iodometrically and HCl by titration with standard alkali. It is assumed that InSb dissolution in HCl solutions of FeCl₃ takes place Card 1/2

25364 5/079/61/031/008/002/009 D215/D304 The kinetics of ...

according to the equation: $8Fe^{3+} + InSb \longrightarrow In^{3+} + Sb^{5+} + 8Fe^{2+}$ Using the Nernst term for the diffusion of Fe³⁺ from the solution to the surface of the solid at room temperature, the mate of dissolution of InSb can be approximately estimated. With an increase of Fe³⁺ ion concentration and increased acidity, the diffusion rate to the monocrystal surface increases. This is reflected in the temperature relation of the rate of dissolution shown graphically. In iodine solutions, the dependence of the InSb dissolution rate on I concentration is also shown. The rate of InSb dissolution, however, is determined by the HIO concentration. The difference between the kinetics of InSb and Ge dissolution in solutions of I is explained by the varying extent of covalency in their chemical bonds. There are 5 figures, 2 tables and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc.

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ASSOCIATION: Leningradskiy gosudarstvenny universitet imeni A.A. Zhdanova (Leningrad State University imeni Zhdanov)

SUBMITTED: August 19, 1960

Card 2/2

S/054/62/000/004/014/017 B101/B186

Myuller, R. L., Orlova, G. M., Timofeyeva, V. N., AUTHORS: Ternovaya, G. I. The range of vitrification in the system arsenic - sulfur -TI TLE: germanium' Leningrad. Universitet. Vestnik. Seriya fiziki i khimii, PERIODICAL: no. 4, 1962, 146-150 TEXT: The physicochemical properties of glasses in the system As - S - Ge were studied. Attempts to obtain binary GeS_x melts (x = 1.0-4.0) in the glassy state failed. Optimum conditions for producing glassy melte: heating of the charge in ampoules for 1.5-2 hrs at 250°C, for 6-7 hrs at 450°C, for 2 hrs at 850°C (at somewhat lower temperature with high S content), cooling to room temperature of the ampoule remaining in the furnace. 60 samples were melted (Fig.). The glasses of the system AsS_xGe_y can be classified in four groups: (I) $x - 2y \ge 1.5$; (II) $1.0 \le x - 2y \le 1.5$; (III) $0 \le x - 2y \le 1.0$; (IV) $x - 2y \le 0$. Composition, density, glass group, molecular weight, content of structural units [GeS_{4/2}], [AsS_{3/2}], [AsS_{2/2}], Card 1/3

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The range of vitrification in...

 $[SS_{2/2}], [AsAs_{3/3}]$, and $[GeGe_{4/4}]$, and the microhardness of the glassy melts are tabulated. The microhardness values calculated from the structural formula agree well with the experimental data (mean deviation 8%). There are 1 figure and 2 tables.

1.1

SUBMITTED: April 1962

Fig. Boundary of vitrification in the system As - S - Ge. --- boundary of vitrification; ---- boundary of crystallization; boundary of vitrification according to B. T. Kolomiyets, N. A. Goryunova, V. P. Shilo (Collection "Stekloobraznoye sostoyaniye" [Glassy State], M.-L., Izd. AN SSSR, 456, 1960)

Card 2/3



"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238 MYULLER, R.L.; ORLOVA, G.M.; TIMOPEYEVA, V.N.; TERNOVAYA, G.I. Glass-forming boundary in the system argenic - sulfur - germanium. (MIRA 15:12) die traible-

TIMOFEYEVA, V.N.; ORLOVA, G.M.; TERNOVAYA,: TSAYUN, G.P. Kinetics of dissolution of vitre us AsSel.5 Geg, AsSl.5 Geg, AsS2 5 Geg in sodium hydroxide s.olutions. Vest. LGU 18 no.10; 108-115 '63. (MIRA lo:3) (Glass manufacture-Chemistry) (Solution (Chemistry))

ORLOVA, G.M.; TSAYUN, G.P. Kinetics of dissolution of arsenic selenide glasses with small additions of gallium in alkaline solutions. Vest. LGU 18 no.10:133-138 '63. (MIRA 16:8) (Arsenic selenide) (Glass manufacture--Chemistry) (Solution (Chemistry))

LEVI, M.I.; SUCHKOV, YU.G.; ORLOVA, G.M.; GEPASYUK, I.G.; OHKODA, ALM.; PEYSAKHIS, L.A.; STOGOVA, A.N.; LOPATINA, N.F.; SUKHAPDIYOVA, N.A.; PAK, G.YU.; MUMINOV, K.M.; DONSKAYA, T.N.; NASSONOV, I.C.; VEYDELAT, V.I.; MURTAZANOVA, F.Sh.; SHTELMAN, A.I.; LAVELNIVIV, A.F.; BASOVA, N.N.; GOLKOVSKIY, G.M.; KULOV, G.I.; SLLIMOV, N.I.; TALYGINA, N.I.

Results of the testing of the reactions of passive hemacy. fination and neutralization of antibodies in the epizootelogic examination of wild rodents for plague. Zhur. mikrobiol., epid. i immun. A0 nc.14: 118-119 D '63.

1. Iz Rostovskogo i Sredne Aziatskogo protivochumnykh inacitutov. Chimkentskoy, Taldy-Kurganskoy, Aralomorskoy, Turkmenskoy, Astrakhanskoy i Frunzenskoy protivochumnykh stantsiy.

TINKER, I.S. [deceased]; LEVI, M.I.; KHOKHLOVA, A.M.; ALESHINA, Ye.N.; ORLOVA, G.M.; GERASYUK, L.G.

Immunological comparison of the IA fraction of various strains of the plague pathogen. Zhur.mikrobiol.,epid. i immun. 41 no.5:144 My *64. (MIRA 18:2)

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JD/GS/AT ACCESSION NR:	AT5017277	Ŭ	R/0000/65/000/0	00/0218/0226	
AUTHOR: Orlova	., G.M.; Yerofeyev, S.	K.; Romanova,	N. V.	37 34	
TITLE: Kinetics bydrogen peroxide	of chemical etching of	single-crystal g	allium arsenide in γ/γ		
SOURCE: Lening Izd-vo <u>Leningr.</u> u	rad. Universitet. Khin <u>niv.</u> , 1965, 218-226	llya tverdogo tel	a (Chemistry of s	olids). Leningra	d,
TOPIC TAGS: gal	llium arsenide, hydrog	en peroxide, ch	emical etching, <u>se</u>	miconductor	

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238 Y. HINSKAVA." UTIG. art. has: 7 figures and 1 table. ASSOCIATION: None SUBMITTED: 02Mar65 ENCL: 00 SUB CODE: IC, GC NO REF SOV: 006 OTHER: 006 Card 2/2 Stap <u>L 21024-66</u> EWT(m)/T/EWP(t) LJP(c) JD/JG/GS UR/0000/65/000/000/0227/0230 ACCESSION NR: AT5017278 15 BHI AUTHOR: Orlova, G. M.; Yerofeyev, S. K.; Romanova, N. V. TITLE: Kinetics of chemical etching of single-crystal gallium arsenide in hydrochloric acid solutions of hydrogen peroxide SOURCE: Leningrad. Universitet. Khimiya tverdogo tela (Chemistry of solids). Leningrad, Izd-vo Leningr. univ., 1965, 227-230 TOPIC TAGS: gallium arsenide, hydrogen peroxide, chemical etching, semiconductor etching APPROVED FOR RELEASE: Wednesdate there BiAgers continued in acid solutions ABSTRACT: The study of the dissolution was used in 0.02, 0.06, 0.12, 0.23, 1.01, 1.93, 0.05, 13R0012; of H2O2. A 0.7 N H2O2 solution was used in 0.02, determined (in mole · cm⁻², sec⁻¹); from 3. 17 N HC1. The dissolution rate of GaAs was determined (in mole · cm⁻². Bec⁻¹); from the temperature dependence of this rate, the activation energy & A (in kcal/mole) and the preexponential factor Ce in the equation $w = C_e \exp\left(-\frac{\epsilon_A}{RT}\right)$ (in mole • cm⁻² · sec⁻¹) were calculated. The character of the etching process was found to Cord 1/2

"APPROVED FOR RELEASE:	Wednesday, June 21, 2000	CIA-RDP86-00513R00123{
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	CCESSION NR: AT5017278
	ffer substantially from the dissolution in alkaline solutions of hydrogen peroxide, and was regely determined by the acid content. In the range from 0.12 to 1.93 N HC1, the chemical ching is determined by the rate of the heterogeneous chemical reaction and is independent HC1 concentration. In more dilute HC1 solutions, a considerable influence on the issolution rate of GaAs is exerted by the formation of a film of amphoteric gallium ydroxide. Orig. art. has: 2 figures and 1 table.
	SSOCIATION: None
8	UBMITTED: 02Mar65 ENCL 00 SUB CODE:
1	OREF 80V: 003 OTHER: 000

1.1 L 11209-66 EWT(m)/T/EWP(t)/EWP(b) IJP(c) .ID ACC NR: APB003816 SOURCE CODE: 11 SOURCE CODE: UR/0054/65/000/003/0119/0122 Borokin, I. P.; Stremilova, N. N.; Orleva, G. AUTHOR: 51 ORG: Leningrad State University (Leningradskiy gosudarstvennyy \mathcal{B} unf Versitet) TITLE: Dissolution of germanium in hydrochloric acid solutions of potassium dichromate 7 SOURCE: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii, no. 3, 1965, 119-122 TOPIC TAGS: germanium, potassium compound, hydrochloric acid, activation energy, etched crystal, solution kinetics, germanium single crys-ABSTRACT: The solution kinetics of germanium in 7M HCl solutions con-taining K₂Cr₂O₇ in amounts of 0.02, 0.17 and 0.31 mol/1 were studied at 20-80°C on m-type Ge single crystal discs with the large surface oriented along the (111) plane. The solution rate of Ge(W) was determined gravimetrically and was calculated from the equation 1 P 12.14 =D -2 UDC: 546.289 : 532.73 Card 1/2 2





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	$\sum \text{EVT}(1)/T/E_A(h) = IJP(c) = A^{T}$	
ACCESSION	MR: AP5020082 621.794.4 : 546.289 : 546.681/2	
AUTHOR: Q	rlova, G. M.; Tikhomirova, L. I.	
	emical etching of semiconductor compounds type Λ^{IV} and $\Lambda^{III}{}_{B}{}^{V}$ in an alka ion of potassium ferricyanide	•
SOURCE: Z	hurnal obshchey khimii, v. 35, no. 8, 1965, 1336-1840	
arsenide,	etched crystal, germanium semiconductor, gallium compound, gallium indium compound, chemical kinetics, semiconductor single crystal, phos- imonide, germanium single crystal	
phosphide; an 0.18 mo.	The kinetics of chemical etching of single crystals of germanium, galli gallium arsenide, gallium antimonide and indium antimonide was studied lar solution of potassium ferricyanide in 1.0 molar KOH. The rate of in g-moles/cm ² -sec was calculated from the formula	um in
	U= <u>Ag</u> N·AC·B •	
where by in Cord 1/4	change in sample weight during time At in seconds; H is molecular weight	nt;

- - -L 00966-66 ACCESSION NR: AP5020082 3 and e is sample surface area in cm², The single crystal surfaces were examined with an MIN-? microscope. The etching was done in non-agitated as well as in agitated (400 rpm) media in the 20-45°C range. The relationship between rate of etching and temperature for gallium phosphide in an alkaline solution of potassium ferricyanide is shown in fig. 1 of the Enclosure. Etching rate as a function of temperature for various other semiconductors is given in fig. 2 of the Enclosure. The rate of heterogeneous chemical reaction is used to control etching of gallium phosphide. Etching of germanium, gallium arsenide and gallium antimonide is controlled by diffusion The ionic character increases in the following sequence: InSb> GaSb> GaAs > GaP. "The authors thank N. A. Goryunova for supplying the single crystals of gallium phosphide and . S. Vekshina for supplying the single crystals of gallium antimonide." Orig. art. has 4 figures, 1 table. ASSOCIATION: Leningradskiy gosudrastvennyy universitet (Leningrad State University) SUBMITTED: 02Ju164 ENCL: 02 SUB CODE: GC, SS' NO REF SOV: 010 OTHER: 005 Cord 2/4





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L 6969-44 EWT(=)/EWP(. ACC WR: AP5028202)/J/EWP(t)/EWP(b)/EWA(c) JD/RA	
5	POLOKIE, I. P.; Orlows C H	新闻:1993
ORG: Leningred State Uni	versity (Leningradekin	39
TITLE: Dissolution kinet: tions of ferric chloride	versity (Leningradskiy gosudarstv ics of <u>single-crystal</u> <u>germanius</u> i // 53, 27 kbinii w of	Phydrochleria
영화 승규에 가장 물건을 얻는 것을 가장 물건을 가지 않는 것을 하는 것을 하는 것을 수 있다. 나는 것을 하는 것을 하는 것을 하는 것을 하는 것을 수 있다. 나는 것을 것을 수 있다. 나는 것을 것을 수 있다. 나는 것을 수 있다. 아내는 것을 수 있다. 나는 것을 수 있다. 아니 아내는 것을 수 있다. 아니 아니 것을 수 있다. 아니 것을 수 있다. 아니	""""""""""""""""""""""""""""""""""""""	· · · · ·
TOPIC TAGS: solution kine ric acid, chloride, german	tics, germanium single crystal, i ium compound	-1517
ABSTRACT: The dissolution ter and 1 mm thick, with the was studied in 7.0 M hydroo It was shown that in 0.33 the rate of germanium is determ of oxidation of germanium. determined by the rate of d	of n-type single crystal germani heir large surface oriented paral chloric acid solutions containing to 2.66 M FeCl3 solutions in 7.0 lined by the rate of the heterogen In 0.02 M FeCl3 in 7.0 M HCl, the iffusion. The decrease in the di	um disks 10 mm in diame- lel to the (111) plane, 0.02 to 2.66 moles FeCl ₃ . M HCl, the dissolution
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from the form dissolution r	ation of <u>complex</u> ate with the cont	ent of free HCl	0.6 to 1.4 M HCl FeCly and HCl. T ces through a maxi y of germanium tet has: 6 figures,	mum around 6 M H rachloride assoc
SUB CODE: GC	,SS/ SUBN DATE:	02Jul64/ ORIG I	EF: 008/_OTH REF	: 004
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다. 영상 방송방송 감독에 다른 영웅성을				
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LOSO17-67 EWT(m)/EWP(t)/ETI IJP(c) JD ACC-NH: AP6031943 SOURCE CODE: UR/0080/66/039/009/1921/1927 30
AUTHOR: Orlova, G. M.; Binder, Kh.
ORG: none
TITLE: Kinetics of dissolution of monocrystallic gallium arsenide in water and in hydrochloric acid solutions $\frac{19}{27}$
v SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 9, 1966, 1921-1927
TOPIC TAGS: iodine, hydrochloric acid, gallium arsenide
ABSTRACT: Research in the kinetics of the dissolution of monocrystalline gallium arsenide in water and in hydrochloric acid solutions of iodine has shown that the character of the process depends on the concentration of iodine in the solution. The process of dissolution of 0. 2–0. 5 M of iodine solutions is limited by the speed of the heterogeneous reaction of GaAs oxidation, by hypoiodous acid in water solutions of iodine, and by molecular iodine in hydrochloric solutions of iodine. The energies of the GaAs dissolution activation are 12.1 $\pm \pm 0.3$ kcal/mol and 19.6 ± 0.4 kcal/ mol. In more dilute iodine solutions, the process of GaAs dissolution is determined by convex-diffused phenomena in the solution. Orig. art. has: 7 figures. SUB CODE: 07/ SUBM DATE: 16Aug65/ ORIG REF: 004/. OTH REF: 010 UDC: 546. 681'19+532. 73

