"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRAKIROV, V.

DAVIDOV, Sl., prof.; KAVRAKIROV, V., dots.; PENEV, Zl.; ANGELOV, D.; DEVETAKOV, M.; BORIMECHKOV, L.

Traumatic injuries of the jaw region in Bulgaria. Stomatologiia, Sofia no.3:174-183 1954.

1. Iz Katedrata po khirurgichna stomatologiia pri Meditsinskata akademiia V.Chervenkov, Sofiia. Zav. katedrata: prof. Sl.Davidov.

(JAWS, wounds and injuries, statist., Bulgaria)
(WOUNDS AND INJURIES, jaws, statist., Bulgaria)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRAKIROV, V., dots.

Indications and contraindications for teeth extraction in acute inflammations of dental origin. Stomatologiia, Sofia no.4:216-219 1954.

(TEETH EXTRACTION,
indic. in inflamm.)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRAKIROV, V.

SAVOV, G.; KAVRAKIROV, V.

Hemihypertrophia faciei progressiva. Suvrem. med., Sofia 5 no.6: 96-98 1954.

1. Iz tsentralniia voenen gospital (nachalnik: L.Angelov)
(FACE, diseases,
hemihypertrophy, progr.)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRAKIROV, V., dots.

Controversy on acute inflammatory processes of dental origin.
Stomatologiia, Sofia no.2:32-39 1955.
(TEETH, diseases,
odotogenous periodontitis, osteomyelitis & periostitis)
(PERIODONTIUM, diseases)
(OSTEOMYELITIS,
odontogenous)
(PERIOSTITIS,
odontogenous)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRAKIROV, V.J. (Sofia)

Surgical treatment of hereditary harelip. Acta chir. orthop. traum. cech. 24 no.6:467-470 Nov 57.
(HARELIP, surg.
technic (Cz))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRAKIROV, V.

On the problem of total rhinoplasty with a Filatov's flap stripped of fat. Acta chir. plast. 3 no.4:241-249 '61.

1. Clinic of Faciomaxillary Surgery O. A. B., Sofia (Bulgaria) Director: Prof. G. Krastinov.

(NOSE surg)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRAKIROV, V.

Surgical treatment of congenital single harelip. Nauch. tr. vissh. med. inst. Sofia 41 no.3:17-34 '62.

1. Predstavena ot prof. Sl. Davidov.
(HARELIP)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

AGEKYAN, T.A.; KAVRAYSKAYA, K.V.; PLYUGIN, G.A.; STRUGATSKIY, B.N.; SHISHKINA, G.A.

An indication of the interaction of stars and diffuse matter. Astron.zhur. 33 no.5:679-681 S-O '56. (MLRA 9:12)

1. Astronomicheskaya observatoriya Leningradskogo gosudarstvennogo universiteta.
(Stars) (Interstellar matter)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRAYSKAYA, K.V.

Dispersion of the brightness function used in solving some problems of galactic structure. Uch.zap.LGU no.190:40-51 '57. (MLRA 10:7)
(Stars--Distribution) (Stars--Magnitudes)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

43-1-10/10

AUTHOR: KAVRAYSKAYA, K.V.

TITLE: Determination of the Distribution Function of the Real Ellipticity of the Galactics (Opredeleniye funktsii raspredeleniya istinnykh szhatiy galaktik)

PERIODICAL: Vestnik Leningradskogo Universiteta, Seriya Matematiki, Mekhaniki i Astronomii, 1958, Nr 1(1), pp.148-158 (USSR)

ABSTRACT: Let x denote the real and u the observed ellipticity of the galactics; f (x) and φ (u) the distribution functions of x and u . Under the suppositions that 1.) the galactics are regular spheroids and 2.) the distribution of the angle of inclination of the symmetry planes of the galactics to the direction of observation have random character, the author obtains the relation

$$f(x) = \frac{2}{\pi} \sqrt{1 - x^2} \left\{ \frac{d}{dx} \int_0^x \frac{\varphi(u)\,du}{\sqrt{x^2-u^2}} \right\}$$

with partially statistic methods after having solved an abelian integral equation. A detailed discussion with the aid of results of observation leads the author to the following conclusions:

1. The distribution of the ellipticities in the clusters is

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

Determination of the Distribution Function of the Real Ellipticity of the Galactics 43-1-10/10

completely different from the distribution in the general field.

2. For three investigated clusters similar $f(x)$ and $\varphi(u)$ were obtained which is a sign of the absence of domineering orientation planes.
3. In the general field there are extraordinarily many entirely round galactics, while galactics with $0.475 \leqslant x < 1.00$ are nearly completely absent.

7 figures, 1 Soviet and 13 foreign references are quoted.

SUBMITTED: 20 March 1957

AVAILABLE: Library of Congress

1. Galactics-Distribution function 2. Mathematical analysis

USCOMM-DC-54861

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

AUTHOR: Kavrayskaya, K.V. 43-58-13-3/13

TITLE: Determination of the Distances to the Clusters of Galaxies and to individual galaxies. The Investigation of the Relations Between the Absolute Magnitudes and the Ellipticities of the Galaxies (Opredeleniye rasstoyaniy do skopleniy galaktik i do otdel'nykh galaktik. Issledovaniye zavisimosti mezhdu absolyutnymi velichinam i istinnymi szhatiyami galaktik)

PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki, mekhaniki i astronomii, 1958, Nr 13(3), pp 16-26 (USSR)

ABSTRACT: The determination of the distances to the clusters of galaxies is based on the assumption that there exists a statistical relation between the absolute magnitudes and the real ellipticities. The existence of this relation is proved. Furthermore it is assumed that the distribution of the angles of inclination of the symmetry planes of the galaxies to the direction of observation is random; this is confirmed by the former investigation of the author [Ref 6]. Under these assumptions the author constructs the curve representing the dependence of the absolute magnitude from the mean observed spheroidicity (the author does not use the magnitude $\frac{a-b}{a}$

Card 1/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

The Determination of the Distances of the Clusters of Galaxies and of Single Galaxies. The Investigation of the Relations Between the Absolute Magnitudes and the Ellipticities of the Galaxies 43-58-13-3/13

but the so-called spheroidicity $\frac{b}{a}$). A comparison of such curves for well-known clusters with curves for unknown clusters yields the sought distance of the unknown clusters.
A similar method also based on probability theoretical considerations is proposed for the determination of the distances of single elliptic galaxies. The advantage of the method consists in the consideration of the probable absolute magnitude of the galaxies for the determination of the probable distance.
There are 2 tables, 5 figures and 10 references, 3 of which are Soviet, 3 American, 2 Swedish, 1 German and 1 English.

SUBMITTED: December 4, 1957

1. Astronomy 2. Galaxies--Physical properties 3. Mathematics

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRAYSKAYA, K.V., Cand Phys-Math Sci — (diss) "Statistical study of ~~condensation~~ compressions of ~~galactic~~ galaxies." Len, 1959. 11 pp (Len Order of Lenin State U im A.A. Zhdanov). 150 copies (KL,38-59, 113)

5

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

3(1)

AUTHOR: Kavrayskaya, K.V. SOV/43-59-7-13/17

TITLE: A Statistical Investigation of the Ellipticities of Double Galaxies (Statisticheskoye issledovaniye szhatiy dvoynykh galaktik)

PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki, mekhaniki i astronomii, 1959, Nr 7(2), pp 129-139 (USSR)

ABSTRACT: The statistical investigations of double galaxies show that their components in most of the cases are physically dependent. This fact causes the author to investigate the correlation of the ellipticities of the components of double galaxies. The proof of the correlation would mean that the components have a common origin and that they are not risen by tearing along with The result of the investigation is uniquely negative: neither between the ellipticities nor between the tilts of the components a correlation can be proved.
There are 3 references, 2 of which are Soviet, and 1 Swedish.

SUBMITTED: January 13, 1958

Card 1/1

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

L 7879-66 EWT(m)/EPF(c)/EWP(j)/T RPL RM

ACC NR: AP5025030 SOURCE CODE: UR/0286/65/000/016/0083/0083

AUTHORS: Belyayev, V. A.; Gromova, V. A.; Zemit, S. V.; Kavrayskaya, N. L.; Kopylov, Ye. P.; Kosmodem'yanskiy, L. V.; Kostin, D. L.; Kut'in, A. M.; Lazaryants, E. G.; Romanova, R. G.; Tsaylingol'd, V. L.; Shikhalova, K. P.; Shushkina, Ye. N.

ORG: none

TITLE: Method for obtaining synthetic rubber. Class 39, No. 173942

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 83

TOPIC TAGS: rubber, synthetic rubber, butadiene, styrene, polymer, copolymer, polymerization

ABSTRACT: This Author Certificate presents a method for obtaining synthetic rubber by polymerization or copolymerization of dienes with vinyl monomers, for example, butadiene with α-methylstyrene, in aqueous emulsion at low temperatures in the presence of known free-radical-initiators and regulators employing emulsifiers. To improve the polymer properties, esters of monoalkylbenzoic acid are used as emulsifiers.

SUB CODE: 11,07/ SUBM DATE: 03Jul63

Card 1/1 UDC: 678.762 678.762-134

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRAYSKIY, V.N.

Special vises. Mashinostroitel' no.8:27 Ag '62. (MIRA 15:8)
(Vises)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRAYSKIY, V.N.

Turnbucles for conveying molding cores and forms. Mashinostroitel' no.3:25 Mr '63. (MIRA 16:4)

(Hoisting machinery)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

USSR/Plant Physiology. Mineral Nitrition

Abs Jour : Ref Zhur - Biol., No 19, 1958, No 86643

Author : Kavrayskiy Yu.V.
Inst : -
Title : On the Problem of the Causes of the Non-Equivalence of Individual Chemical Elements in Plant Life

Orig Pub : Fiziol. Rastoniy, 1957, 4, No 4, 372-377

Abstract : The author arranged all the chemical elements of the periodic table in the order of the increase in the magnitude of the ratio (I) of atomic weight to charge, and compared their range of spread in nature and biological activity in plants. Excluding inert gases, the author obtained the following sequence of elements: H, O, N, C, Ca, S, Si, Mg, K, P, Al, Cl, Na Ni, F. Se, Fe, B, Cr, Ti, Zn, Co, Cu, Mn, and so forth. A comparison of the I and biological activity of elements was used to deduce conclusions that the structural elements (H, O, N, C) of the principal simplest protein, without which

Card : 1/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

SERGEYEV, L.I.; KAVRAYSKIY, Yu.V.; SERGEYEVA, K.A.

Characteristics of the yearly cycle and frost resistance of fruit trees in the Crimea. Trudy Inst. biol. UFAN SSSR no. 43: 115-118 '65 (MIRA 19:1)

1. Institut biologii Bashkirskogo gosudarstvennogo universiteta.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

DOBYCHIN, B.D., professor; SHIPACHEV, V.G., professor; SINAKEVICH, N.A., professor; KOLCHENOGOV, P.D., dotsent; SENCHILLO, Z.T., dotsent; KAVRICHKOVA, R.M., assistent; STANKEVICH, M.V., assistent; FOMINA, V.M., assistent; RUMYANTSEVA, V.I., assistent.

In memory of K.P.Sapozhkov. Khirurgiia no.8:86 Ag '53. (MIRA 6:9)
(Sapozhkov, Konstantin Petrovich, 1874-1952)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRAKIROV, V., dots.

On a method for total rhinoplasty with the aid of Filatov's flap without fatty tissue. Khirurgiia, Sofia 13 no.11:969-976 '60.
(NOSE surg)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

BOSEV, N.[Boshev, N.]; NIKOLOVA, A.; KAVRIKOVA, K.

On the mechanism of the phagocytic reaction of white blood corpuscles. Studii cerc fiziol 6 no.2:237-243 '61.

1. Institutul de medicina superioara "I. P. Pavlov", Plovdiv, R.P. Bulgaria.

(PHAGOCYTES) (LEUCOCYTES) (NERVOUS SYSTEM, SYMPATHETIC)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRIN, Ye.I., inzhener.

Effectiveness of testing windings of generators and synchronous compensators by increasing the alternating current voltage. Energetik 1 no.7:16-18 D '53. (MLRA 6:12)

(Dynamos--Testing)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

1. KAVRINENKO, D. D.

2. USSR (600)

4. Ukraine--Beech

7. White beech in the eastern margin of its area, Priroda, 42, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRISHVILI, K.V.

Def. at
Tbilisi State U.

ческой (ландшафтной) характеристики бассейнов рек Супсы и Натанеби (Гурия). 1948. 216 с. Альбом. 7 карт. 57 фото-илл.

Защ. 1949, 18.3.

947. Захария Геворк Араевич. Геоморфология бассейна реки Вохчи (Кафанский район Армянской ССР). 1953. 138 с., 4 вкл. л., 18 рис. (Ереванский гос. унив.).

Защ. 1955, 20.4.

948. Кавришвили Кетевана Виссарионовна. Опыт физико-географической характеристики окрестностей Тбилиси. 1947. 20, 181 с., рис. [33] вкл. л., илл., табл.

Защ. 1948, 9.4.

949. Морозов Павел Васильевич. Распределение гидрологических элементов и динамика вод в Юговосточной части Черного моря. 1943.

Защ. 1943, 13.7.

950. Оганесян Оганес Мартичевич. Армянская рукописная карта мира (13—14 вв.). 1950. 108 с., 2 отд. л., карт. (Ереванский гос. унив.).

Защ. 1950, 13.10.

951. Потапенко Василий Иванович. Геоморфологические особенности центральной части Ставропольской возвышенности. Ставрополь. 1948.180 с., [21] вкл. л., рис., карт.

Защ. 1949, 19.1.

952. Саакбадзе Мелетий Степанович. Физико-географическая характеристика Казбекского района. 1949. 3, 292 [2] с. Альбом 23 л., илл., карты.

Защ. 1949, 11.6.

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Защ. 1952, 25.2.

954. Цомая Василий Бармакович. Снегонакопление в бассейнах горных рек Грузии и точность определения его элементов. 1957. 151 с.

Защ. 1957, 18.9.

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Защ. 1952, 24.10.

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Защ. 1956, 20.2.

957. Часлов Петр Петрович. Микроклимат центральной части Аджаро-Афонского района как одного из наиболее теплых районов субтропической зоны АССР Абхазии. Сухум. 1947. 148 с. [2] вкл. л., сх. (ВНИИ чая и субтроп. культур).

Защ. 1948, 21.5.

958. Шейх-Заде Исмаил Алиевич. Географический очерк озер Апшеронского полуострова. Баку. 1940. 173 с., карты, фото-илл.

Защ. 1940, 29.6.

[illegible]. Экономическая география

959. [illegible] (ეკონომიკურ-გეოგრაფიული [illegible]). [illegible]. 1953. 4, 244 [illegible], 29 [illegible], 8 [illegible], 6 [illegible]. ([illegible]).

[illegible] 1954, 5.11.

Демтрашвили Екатерина Давидовна. Сигнахский район (экономо-географическая характеристика). Гори. 1953. 4, 244 с., 29 фото, 8 карт., 6 диагр. (Горийский пед. инст.).

Защ. 1954, 5.11.

Dissertation for degree of

Candidate Geographical Sciences

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

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KAVRISHVILI, K.V.

Aleksandr Nikolaevich Dzhavakhishvili (on the occasion of his eightieth birthday). Izv.AN SSSR.Ser.geog. no.2:145-148 Mr-Ap '56. (MLRA 9:8)

1. Tbilisskiy gosudarstvennyy universitet imeni I.V. Stalina.
(Dzhavakhishvili, Aleksandr Nikolaevich, 1875-)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRISHVILI, K.V.

Correlation between the vertical land forms. Nauk. zap. L'viv. un. 40:155-159 '57. (MIRA 11:6)

1.Gosudarstvennyy universitet, Tbilisi.
(Georgia--Physical geography)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRISHVILI, K.V.

Characteristics of land forms in the upper parts of the Kakhetian Alazani and Tushetskaya Alazani Valleys. Trudy Geog. ob-va Gruz. SSR no.3:131-153 '58. (MIRA 12:9)
(Alazani Valley--Physical Geography)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRISHVILI, K.V.

Special features of the upper stream region of the Kvirila River landform. Trudy Geog.ob-va Gruz.SSR 4:181-204 '59. (MIRA 13:1)

(Kvirila River--Physical geography)

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KAVRISHVILI, K.V.

Land form analysis of the Gega River basin in northwestern Georgia. Izv. vses. geog. ob-va 92 no.6:482-495 N-D '60. (MIRA 14:1)
(Gega Valley—Physical geography)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRISHVILI, K.V.

Vertical zoning in landforms of the Kelasuri and Amtkel basins. Trudy Inst. geog. AN Gruz. SSR 17:79-95 '62. (MIRA 16:7)

(Kelasuri Valley—Landforms)
(Amtkel Valley—Landforms)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRISHVILI, K.V.

Alexander Humboldt's travels and their scientific significance. Trudy Geog. ob-va Gruz. SSR 6:27-45 '63. (MIRA 17:2)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRISHVILI, K.V.

Types of the karstic landforms of Abkhazia and the characteristics of main types based on the example of the Okhachkuye and the Bzybskiy Ridges. Trudy Inst. geog. AN Gruz. SSR 18:156-159 '64. (MIRA 17:6)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVRISHVILI, K.V.

Establishing types of natural landforms on the territory of Abkhazia (the northwestern part of the Georgian S.S.R.). Trudy Inst. geog. AN Gruz. SSR 20:119-137 '64. (MIRA 18:5)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

SABASHVILI, M.N., akademik; GULISASHVILI, V.Z., akademik; KAVRISHVILI, L.N., agronom; YASHVILI, N.S., prof.; ARCHVADZE, Sh.R., kand. ekon. nauk; SHENGELIYA, P.G., red.

[Natural resources of the Georgian S.S.R.] Prirodnye resursy Gruzinskoi SSR. Moskva, Nauka. Vol.6. 1965. 274 p. (MIRA 18:7)

1. Akademiya nauk Gruzinskoy SSR, Tiflis. Sovet po izucheniyu proizvoditel'nykh sil. 2. Akademiya nauk Gruz.SSR (for Sabashvili, Gulisashvili).

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method [illegible]

maximum was observed in the [illegible]

layer, a [illegible] distributions of the probability of

part of the [illegible]

the regions of minimum turbulence are the Canadian-Alaskan sectors of the Arctic

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KAVRYKOV, St.

BULGARIA / Diseases of Farm Animals. Toxicoses. R

Abs Jour: Ref Zhur-Biol., No 8, 1958, 35858.

Author : Prodanov, P., Kavrykov, St.
Inst : Institute of ~~Experimental~~ Veterinary Medicine Bulgarian Academy of Sciences.
Title : Wild Pea - Lathyrus aphaca - Horse Poisoning.

Orig Pub: Izv. in-ta eksperim. vet. med. Bulg. AN, 1956, No 5, 71-75.

Abstract: Two cases of horsesmass poisoning by wild pea -- Lathyrus aphaca -- are described. The horses were given grain waste containing wild pea seeds for a period of two and a half to three months, and they each consumed 1.36 to 1.86 kilograms of wild peas. On one farm, 14 horses out of 168 fell sick; on another, four horses were afflicted out of 80. Fourteen horses died. The typ-

Card 1/2

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DZHERVALIDZE, A.N.; KAVSADZE, I., red.

[Instructions for assemblying and operating the hydraulic equipment of the "Stalinets-6" Combine] Metodicheskie ukazaniia po montazhu i ekspluatatsii gidravlicheskogo prisposobleniia kombaina "Stalinets-6." Tbilisi, Izd-vo Gruzinskogo sel'khoz. in-ta, 1959. 18 p. (MIRA 13:9)

(Combines (Agricultural machinery))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, G. I. PA 29T71

USSR/Oil Regions Sep 1947
Iodine

"The Occurrence of Iodine in Waters of the Norio Oil Bed," G. I. Kavtaradze, ½ p

"Azerbaydzhanskoye Neftyanoye Khozyaystvo" No 9

Short statement on the occurrence of iodine in wells of the Norio oil bed at various levels of the well. It is stated that future hydrogeologic research and development work must produce a method for industrial extraction of iodine from drilling water.

LC 29T71

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KA[redacted] G.I.

Formation waters of the Maikop series in oil fields of Georgia. Azerb. neft. khoz. 36 no.4:5-7 Ap '57. (MLRA 10:6)
(Georgia--Oil field brines)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

AUTHOR: Kavtaradze, N. N. SOV/62-58-9-5/26

TITLE: Concerning the Nature of the Maximum of the Isobars of Hydrogen Adsorption on Nickel, Platinum, Iron, Chromium, and Other Metals (O prirode maksimuma na izobarakh adsorbtsii vodoroda na nikele, platine, zheleze, khrome i prochikh metallakh)

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1958, Nr 9, pp 1045 - 1053 (USSR)

ABSTRACT: The investigations of the hydrogen adsorption on nickel, platinum, iron, and other metals have shown that the adsorption isobars between -78° and 0° (or -50°) exhibit a maximum (Refs 1-26). The appearance of this maximum in the absorption isobars was determined and explained (Refs 8,9). In the work reported in this paper the authors undertook an exhaustive study of the generally accepted interpretation and explanation of the nature of the maximum in the isobars of the hydrogen adsorption (on nickel, platinum, iron, chromium, and other metals) and produced a new interpretation and explanation of this maximum. This interpretation is based on the conception

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Concerning the Nature of the Maximum of the Isobars of Hydrogen Adsorption on Nickel, Platinum, Iron, Chromium, and Other Metals SOV/62-58-9-5/26

of the two-way equilibrium condition present in the atomic and molecular hydrogen chemisorption on the nickel, iron, platinum, and other metals. This new interpretation of the nature of the maximum in the adsorption isobars was established thermochemically and thermodynamically. There are 2 figures and 38 references, 10 of which are Soviet.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry, AS USSR)

SUBMITTED: May 10, 1957

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, K. N.

"Experimental Leptospirosis in Monkeys" a report prepared at Sukhumi Medico-Biological Station, AMS USSR, 1954.

So: Review of Eastern Medical Sciences, Munich, No. 2, 1956.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, K.N.; BERNSHTEYN, A.D.; KVARATSKHELIYA, G.Ya.

Sources of leptospirosis in the Abkhazian A.S.S.R. Zhur.mikrobiol. epid. i immun. 28 no.9:60-63 S '57. (MIRA 10:12)

1. Iz Sukhumskoy mediko-biologicheskoy stantsii AMN SSSR i Respublikanskoy sanitarno-epidemiologicheskoy stantsii Abkhazskoy ASSR.
(LEPTOSPIROSIS, transmission, carriers (Rus))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, K. N.
GVAZAVA, I. S.
DZHIKIDZE, E. K.

"Experimentation of Chemical Therapy of the Dysenteric Zonnye" p. 135

in book publ. by Inst. Experimental Pathology and Therapy, Acad. Medical Sci. USSR, Problems of Infectious Pathology in Monkey Experiments, Editor, B. A. Lapin (Cand. Medical Sci.) Sukhumi, 1958.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, K. N.

"Icteric Leptospira of the Monkey"
p. 179

in book publ. by Inst. Experimental Pathology and Therapy, Acad. Medical Sci. USSR, Problems of Infectious Pathology in Monkey Experiments, Editor, B. A. Lapin (Cand. Medical Sci.) Sukhumi, 1958.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, K.N.

Some rare serotypes of dysentery bacilli isolated from monkeys. Trudy Len. inst. epid. i mikrobiol. 24:295-298 '63. (MIRA 18:10)

1. Iz laboratorii infektsionnoy patologii Instituta eksperimental'noy patologii i terapii AMN SSSR, Sukhumi.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

DZHIKIDZE, E.K.; STASILEVICH, Z.K.; PEKERMAN, S.M.; KAVTARADZE, K.N.

Simulating human intestinal infections in different experimental animals. Vest. AMN SSSR 20 no. 11:38-50 '65 (MIRA 19:1)

1. Institut eksperimental'noy patologii i terapii AMN SSSR, Sukhumi. Submitted July 13, 1965.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

L 26114-66 EWT(1)/T JK

ACC NR: AP6015387 SOURCE CODE: UR/0248/65/000/011/0038/0050

AUTHOR: Dzhikidze, E. K.; Stasilevich, Z. K.; Pekerman, S. M.; Kavtaradze, K. N. 23 B

ORG: Institute of Experimental Pathology and Therapy AMN SSSR, Sukhumi (Institut eksperimental'noy patologii i terapii AMN SSSR)

TITLE: Simulation of human intestinal infections in experiments with different animals

SOURCE: AMN SSSR. Vestnik, no. 11, 1965, 38-50

TOPIC TAGS: intestinal disease, human ailment, animal disease

ABSTRACT: The article reports on the simulation of dysentery salmonellosis and Escherichia coli infections in various animals and is based on literature and original research on monkeys. Spontaneous and experimental dysentery in new and acclimatized monkeys closely approximates the 3 etiological variants (Flexner, Sonne and Newcastle) of human dysentery in respect to clinical and carrier forms and agglutination titers. However, in the animals the diseases were more serious (30-60% deaths) and had higher localization in the intestine. Experimental Salmonella infection in monkeys produced essentially the same clinical picture with a latency of 2-3 days, fever, diarrhea, frequent bacteremia and other typical signs of

Card 1/2 UDC: 616.34-022-092.9

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L 26114-66

ACC NR: AP6015387

typhoid disease. Virulence declined in the following order: S. enteritidis, typhimurum, stanley and heidelberg. While in humans these infections cause so-called food poisoning, in monkeys they resemble typhoid-like salmonella infections in children. S. paratyphi B are rarely isolated under natural conditions, but this infection was reproduced in over 50% of the experimental monkeys in a form resembling human paratyphoid. One hundred percent could be infected by increasing the sensitivity of the monkeys through vitamin C deficiency or radiation disease. Typhus abdominalis can be reproduced in the chimpanzee but differs from the human disease by a shorter incubation and a milder course. In tests on rhesus monkeys, no clinically pronounced intestinal forms were seen but 15 out of 51 had a specific kind of pneumonia. E. coli infection led to a benign intestinal dysfunction and had a tendency to occur again in infant monkeys. Serious coli infection could also be produced in monkeys by inducing a vitamin C deficiency or radiation disease. It is concluded that the results justify the use of monkeys for modeling intestinal infections. Orig. art. has: 1 table.

SUB CODE: 06 / SUBM DATE: 13Jul65 / ORIG REF: 055 / OTH REF: 041

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

ZENAYSHVILI, O.P.; BAKANIDZE, T.A.; GOBECHIYA, B.K.; KAVTARADZE, M.A.

Results of alkopar trials in foci of necatoriasis. Med.paraz. i paraz.bol. 33 no.3:302-303 My-Je '64.

(MIRA 18:2)

1. Institut meditsinskoy parazitologii i tropicheskoy meditsiny imeni Virsaladze Ministerstva zdravookhraneniya Gruzinskoy SSR, Tbilisi.

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C A

2

Catalytic oxidation of phosphine in adsorbed layers. E. A. Andreev and N. N. Kavtsadze. *Doklady Akad. Nauk S.S.S.R.* 60, 1193-5(1948).—The catalytic oxidation of PH_3 on dry charcoal in the presence of Cu salts involves as a 1st step the activated adsorption of pH_3 onto the supported Cu salt with an activation energy of about 2 kcal. The activation energy for the reaction of O with the adsorbed PH_3 increases as the O sats. the surface. The kinetics of the oxidation can be described by the equation of Roginskii and Zeldovich (cf. *C.A.* 39, 7776[1]): $\log (t + t_0) = (a/2.3)q - \log ae$, where q is the amt. reacted, t the time in min., a the original speed of the reaction, and a a const.

Arild J. Miller

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, N.N.

USSR/Chemistry Physical chemistry

Card : 1/1

Authors : Kavtaradze, N. N.

Title : Effect of thermal effusion on pressure measurements and methods of computing corrections

Periodical : Zhur. fiz. khim. 28, Ed. 6, 1083 - 1094, June 1954

Abstract : Methods for the calculation of actual pressures, based on the theory of thermal effusion and on the application of empirical and semi-empirical ratios, are discussed. Methods for the introduction of corrections, for the thermal effusion effect, are described. An approximate solution to the Knudsen equation and a graphical method (based on this equation), for the calculation of actual pressures in the range of 10^{-4} to 10^{-1} mm mercury column, were introduced. Sixteen references: 4 USSR, 2 USA, 10 German. Tables, graphs.

Institution : Acad. of Sc. USSR, Institute of Physical Chemistry, Moscow

Submitted : October 8, 1953

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

AF701597 TREASURE ISLAND BOOK REVIEW AID 837 - S

KAVTARADZE, N. N. (Institute of Physical Chemistry, Academy of Sciences, USSR).
DISKUSSIYA (Discussion). In Problemy kinetiki i kataliza (Problems of Kinetics and Catalysis), vol. 8. Izdatel'stvo Akademii Nauk SSSR, 1955. Section IV: Nature of the active surface, p. 235-236.

With reference to the discussion on nonuniform surfaces, it was noted that the adsorption of hydrogen on metals consists of two types: 1) irreversible adsorption which decreases with the rise in temperature, and 2) a reversible adsorption which increases with increase in temperature and which follows the Langmuir equation. At -195°C, hydrogen was adsorbed on nickel, platinum, and iron very rapidly. The reversible adsorption amounted to 3-4% on iron and nickel, and to 7% on platinum. Adsorption of hydrogen at -78, 0, 50 and 100°C gave similar experimental results.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, N. N.:

KAVTARADZE, N. N.: "The adsorption of hydrogen on condensed layers of metal." Acad Sci USSR. Inst of Physical Chemistry. Moscow ,1956. (Dissertation for the Degree of Candidate in Chemical Sciences)

Knizhnaya letopis', No. 39, 1956. Moscow.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

AUTHOR: Kavtaradze, N. N. 20-114-4-39/63

TITLE: Adsorption of Hydrogen on Nickel Layers Condensed in High Vacuum (Adsorbtsiya vodoroda na sloyakh nikelya, kondensirovannykh v glubokom vakuume)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 4, pp. 822-825 (USSR)

ABSTRACT: The nature of hydrogen adsorption on metals has hitherto not been explained. For the investigation of this phenomenon the author used layers which were produced by evaporation of highly pure metals. As a result two groups of metals were found which differ widely in the adsorption of H_2. The knowledge of the adsorption of H_2 on nickel renders it possible to describe the peculiarities of the metals belonging to one of these groups. At - 195°C H_2 is extremely rapidly adsorbed on nickel: 91% within the first minute, 98,4% after 1o min. The adsorption is concluded 2o min. after the beginning of the test, and the pressure in the reactor stays constant. The facts established show that the summary adsorption of $H_2(N\Sigma)$ consists of two parts already at 195°C: an irreversible, rapid one and a reversible, momentary one. At -78°C the adsorption of H_2 on nickel retains the same qualitative peculiarities as at +195°C but the

Card 1/2

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Adsorption of Hydrogen on Nickel Layers Condensed in High Vacuum 20-114-4-39/63

share of reversibility is increased up to 8% of the total adsorption, and the latter is brought to an end rapidly. The facts described indicate that the adsorption of H_2 on Ni, as well as on Fe,Cr and Pt represents a complex process: it consists of a reversible and an irreversible part. The former is highly dependent on pressure and temperature, the latter, on the whole, only on temperature. An influence of pressure on the quantity of adsorption has not been detected in the domain examined here. There are 4 figures, 1 table, and 9 references, 6 of which are Soviet.

ASSOCIATION: Institute for Physical Chemistry of the AS USSR (Institut fizicheskoy khimii Akademii nauk SSSR)

PRESENTED: November 27, 1956 by A. N. Frumkin, Member, Academy of Sciences, USSR

SUBMITTED: November 22, 1956

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

AUTHOR: Kavtaradze, N. N. 76-32-4-28/43

TITLE: On the Nature of the Adsorption of Hydrogen on Nickel, Iron, Chromium and Platinum (O prirode adsorbtsii vodoroda na nikele, zheleze, khrome i platine)

PERIODICAL: Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 4, pp. 909 - 913 (USSR)

ABSTRACT: After some considerations concerning already carried out experiments and existing references, and after making assumptions in this field, the author finds the statements by **Beeck** (Reference 10) to be incorrect. Here it is assumed that a molecular chemical sorption is present and that the molecule of the chemically sorbed hydrogen acts as positive end of the dipole $Me^{-} - H_2^{+}$. The phenomena of the adsorption in the case of a temperature rise through -195°C are explained by the fact that with rising temperature the reversible chemical sorption of equilibrium of the hydrogen molecules increases and that the surface part irreversibly occupied by atomically bound hydrogen atoms (hydrides) decreases which leads to an increase of summary adsorption. From this viewpoint the ad-

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

76-32-4-28/43

On the Nature of the Adsorption of Hydrogen on Nickel, Iron, Chromium and Platinum

sorption of hydrogen takes place in two stages:

$$H_{2\ gas} \rightleftarrows H_{2\ ads} \rightleftarrows 2\ H_{ads}\ .$$

In consequence of the dependence of the reversible molecular chemical sorption on the pressure the summary adsorption can pass a maximum value. The sorption of hydrogen on nickel is illustrated by a three dimensional diagram, the course of adsorption in dependence on the temperature being expressed by a general equation which has a constant which is specific for different metals. There are 1 figure, 2 tables and 15 references, 5 of which are Soviet.

ASSOCIATION: Akademiya nauk SSSR, Institut fizicheskoy khimii, Moskva (Moscow Institute for Physical Chemistry, AS USSR)

SUBMITTED: January 8, 1957

AVAILABLE: Library of Congress

Card 2/2

1. Hydrogen--Adsorption 2. Nickel--Adsorptive properties 3. Iron --Adsorptive properties 4. Chromium--Adsorptive properties 4. Platinum--Adsorptive properties

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

AUTHOR: Kavtaradze, N. N. 76-32-5-15/47

TITLE: The Heats of Atomic and Molecular Chemical Sorption of Hydrogen on Nickel, Iron, Chromium and Platinum (Teploty atomarnoy i molekulyarnoy khemosorbtsii vodoroda na nikele, zheleze, khrome i platine)

PERIODICAL: Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 5, pp. 1055 - 1058 (USSR)

ABSTRACT: In connection with the already observed equilibrium of atomic and molecular chemical sorption of hydrogen on the above mentioned and other metals the present paper determines the isothermal lines of the reversible molecular chemical sorption heats according to an equation and gives them in form of a table; it is observed that the data obtained are coinciding with those obtained by Mignolet (Reference 8). The determinations of the heats of the atomic chemical sorption are carried out by means of an equation of statistical physics and an empiric equation is carried out using a proposal by S. Z. Roginskiy, with also these results well coinciding with those of the direct calorimetric measurements by Bik (References 6,7).

Card 1/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

The Heats of Atomic and Molecular Chemical Sorption of Hydrogen on Nickel, Iron, Chromium and Platinum 76-32-5-15/47

A graphical representation is given of the change of the differential absorption heats on the transition from atomic to molecular chemical sorption of hydrogen on nickel, as well as a reaction scheme of the course of the summary heat effect of the process with an explanation of the abrupt change of the differential heat adsorptions on the transition from atomic adsorption to molecular adsorption being given. There are 3 figures, 1 table and 8 references, 5 of which are Soviet.

ASSOCIATION: Akademiya nauk SSSR, Institut fizicheskoy khimii Moskva (Moscow Institute for Physical Chemistry, AS USSR)

SUBMITTED: January 8, 1957

1. Hydrogen---Absorption 2. Hydrogen--Adsorption 3. Metals--Absorptive properties 4. Metals--Adsorptive properties 5. Thermodynamics--Mathematical analysis

Card 2/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

AUTHOR: Kavtaradze, N. N. SOV/76-32-6-4/46

TITLE: The Hydrogen Adsorption Properties of Metals in Relation to Their Position in the Periodic System by D. I. Mendeleyev (Zavisimost' adsorbtsionnykh svoystv metallov po otnosheniyu k vodorodu ot ikh polozheniya v periodicheskoy sisteme elementov D. I. Mendeleyeva)

PERIODICAL: Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 6, pp. 1214-1217 (USSR)

ABSTRACT: On the basis of existing data the metals can be divided into two groups, the first comprising the 1rst - 11th periods, and the second the 11th - 14th period of the enlarged form of the periodic system. The metals of the first group adsorb hydrogen even at -195°C to a considerable degree. At a temperature increase a reversible adsorption of hydrogen is observed, which increases with a temperature rise and apparently is a weak molecular chemisorption. The metals of the second group only little adsorb hydrogen at low and moderate temperatures, the adsorption being small and reversible. Above 300° apparently a dissociation of H_2 into atoms takes place. The experimental data, however, do not give evidence of a

Card 1/3

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

SOV/76-32-6-4/46

The Hydrogen Adsorption Properties of Metals in Relation to Their Position in the Periodic System by D. I. Mendeleyev

considerable chemisorption of atomic hydrogen. According to P. I. Kripyakovich and Ye. Ye. Cherkashin (Ref 11) salt-like hydrides are formed by the alkali and earth alkali elements and metal-like hydrides by the metals of the 3rd-5th period. The stability of the chemical binding of hydrogen with these metals is characterized by the heat of formation of the respective hydrides and it may be assumed that the heats of adsorption are also determined by it. It is found that the heats of formation of the hydrides reduce as the increase of the atomic weight and of the atomic radius of the metals within each series of analogs. It is assumed that the stability of binding Me-H reaches a maximum with titanium, vanadium and their analogs. It is assumed that the surface absorption is an exothermal and the bulk absorption is an endothermal process with the metals of the 5th-10th periods. A deviation from the regularity within the period, as well as within the same series is found under the assumption that the value of the heat of adsorption of hydrogen obtained by Beeck (Ref 12) is correct. The possible heats of chemisorption

Card 2/3

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

SOV/76-32-6-4/46

The Hydrogen Adsorption Properties of Metals in Relation to Their Position in the Periodic System by D. I. Mendeleyev

at atomic hydrogen on manganese, cobalt, rhenium, osmium and iridium were computed. It is stated that a sharply marked change of surface properties takes place at the transition from the elements of the 6th-10th periods to the metals of the 11th-13th periods. The periodicity of the adsorption properties can apparently be postulated not only with hydrogen, but also with olefines, carbon oxides, nitrogen etc. There are 1 table and 14 references, 11 of which are Soviet.

ASSOCIATION: Akademiya nauk SSSR, Institut fizicheskoy khimii, Moskva (Moscow, Institute of Physical Chemistry, AS USSR)

SUBMITTED: November 26, 1956

1. Hydrogen--Adsorption 2. Metals--Adsorptive properties
3. Adsorption--Temperature factors 4. Metals--Test results

Card 3/3

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5(4)

AUTHOR: Kavtaradze, N. N. SOV/20-123-3-33/54

TITLE: On the Dependence of the Chemosorption Properties of Metals on the Structure of Their Samples (O zavisimosti khemosorbtsionnykh svoystv metallov ot struktury ikh obraztsov)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 3, pp 498-500 (USSR)

ABSTRACT: According to available experimental data, the specific chemosorption capacity of bodies (especially of metals) is constant and does not depend on geometric structure. A diagram shows the results obtained by measuring the adsorption of hydrogen on nickel layers in the various stages of development. According to these data the chemosorption capacity of the metal in the layer increases in the case of the structural variations investigated, and, at the same time, a proportional increase of the constant part of adsorption (i.e. of atomic chemosorption) and of the weak reversible part of adsorption (i.e. of molecular chemosorption) may be observed. In the case of the aforementioned structural variations the ratio between atomic and molecular chemosorption remains practically constant, i.e. structural variation exercises no influence upon the qualitative character

Card 1/3

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of the phenomenon. However, in the case of the aforementioned structural variations, a certain number of "nucleus particles" is at first formed, i.e. of "small islands" or of latent crystal grains, which are separated from one another by free interspaces. If the quantity of metal in the layer increases, the layer develops by the increase and fusion of the particles originally present (no new crystallization centers are formed), porosity decreases gradually, and a massive layer is formed. Further condensation of the metal increases layer thickness and varies its relief. A second table contains data concerning the influence exercised by the heating (i.e. of the recrystallization) of a nickel layer upon the adsorption of hydrogen. Also in this case a change of structure practically exercises no influence upon the qualitative character of the phenomenon. A problem still to be solved is that of the cause of the increase of the chemosorption capacity of the layers for hydrogen in the case of their increase and in the case of a variation of their structure. An answer to this question can be found by measuring the surface of the nickel layers by the adsorption of krypton at -195° and by comparing the

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quantities thus found with the quantity of hydrogen adsorbed on the same layers and at the same temperature. The increase of the chemosorption capacity of a metal layer in the case of its growth and its structural variation are connected with increase of the total surface in these processes. According to the data obtained, the structural variation of the layers of nickel and other metals during condensation or resulting from heating (recrystallization) exercises practically neither a qualitative nor a quantitative influence upon their specific chemosorption capacity. There are 1 figure, 3 tables, and 8 references, 5 of which are Soviet.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences, USSR)

PRESENTED: July 7, 1958, by V. I. Spitsyn, Academician

SUBMITTED: July 4, 1958

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, N. N.

81274

S/069/60/022/03/12/019
B004/B007

11.8000
15.9130

AUTHORS: Lygin, V. I., Kovaleva, N. V., Kavtaradze, N. N., Kiselev, A. V.

TITLE: Adsorption Properties and Infrared Spectra of Oxidized Carbon Blacks

PERIODICAL: Kolloidnyy zhurnal, 1960, Vol. 22, No. 3, pp. 334 - 339

TEXT: In the introduction the authors mention the various methods of determining the nature of chemical compounds on the surface of fillers, as e.g. carbon black (Refs. 1-9). The present paper is a continuation of the investigation of the surface compounds of adsorbents by means of an infrared spectroscope. The authors studied channel black from Ukhta in natural state and oxidized by means of sodium hypochlorite (in the laboratory of A. Ya. Korolev, Ref. 1), carbon black obtained by the decomposition of graphite oxide at 300°C, as well as this carbon black after heating at 1,700°C in a hydrogen flow. The characteristic values of the samples are given in a table. The specific surface was determined by N. N. Avgul'. Fig. 1 shows the isothermal lines of vapor adsorption

Card 1/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

68858

24.3410

AUTHORS: Kavtaradze, N.N., Lygin, V.I.

S/076/60/034/02/032/044
B010/B007

TITLE: Vacuum Cell for Investigating the Infrared Absorption Spectra of Solids in the Atmosphere of Various Gases Within a Wide Temperature Range

PERIODICAL: Zhurnal fizicheskoy khimii, 1960, Vol 34, Nr 2, pp 462-463 (USSR)

ABSTRACT: The strong scattering of infrared spectra can be prevented by application of powder samples pressed into the shape of lamellas. The cells available for this purpose at present do not meet all demands. For this reason a cell (Fig) was constructed by means of which it is possible to investigate the infrared spectra of samples of the above-described kind within the temperature interval of from -50° to $+200^{\circ}$, in the high vacuum (10^{-4}-10^{-5} torr), or in various gas media. The cell is made from molybdenum glass and on its lower end it has two openings lying opposite to each other on to which NaCl-lamellas are glued (by means of a BF-2 type glutinant). The pressed powder sample is placed between two aluminum foils. The latter are (together with the sample) located between the two aforementioned openings through which the infrared beam passes. The sample may be heated by means of a heater, and the temperature is measured by means of a thermocouple. Low temperatures are attained by means of liquid nitrogen or a freezing mixture. Besides spectro-

Card 1/2

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68858

Vacuum Cell for Investigating the Infrared Absorption Spectra of Solids in the Atmosphere of Various Gases Within a Wide Temperature Range

S/076/60/034/02/032/044
B010/B007

scopic investigations at various temperatures, also chemical reactions of the sample with various gases may be spectrographically investigated in the cell described. There are 1 figure and 2 references, 1 of which is Soviet.

ASSOCIATION: Akademiya nauk SSSR Institut fizicheskoy khimii (Academy of Sciences of the USSR, Institute of Physical Chemistry)

SUBMITTED: June 15, 1959

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, N.N.; LYGIN, V.I.

Infrared spectroscopy method of studying chemical reactions on a palladium surface. Zhur.VKHO 6 no.4:472-473 '61. (MIRA 14:7)

1. Institut fizicheskoy khimii AN SSSR.
(Palladium) (Surface chemistry)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

LYGIN, V.I.; KAVTARADZE, N.N.; BORESKOVA, Ye.G. (Moskva)

Technique of specimen preparation for studying the chemisorption of gases on metals by infrared spectroscopy. Zhur. fiz. khim. 35 no. 4:932-933 Ap '61. (MIRA 14:5)

1. Akademiya nauk SSSR, Institut fizicheskoy khimii.
(Metals—Spectra) (Sorption)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, N.N.; LYGIN, V.I.

Structure of the surface bonds of carbon monoxide on palladium based on data of adsorption measurements and infrared spectra. Dokl.AN SSSR 138 no.3:616-618 My '61. (MIRA 14:5)

1. Institut fizicheskoy khimii AN SSSR. Predstavleno akademikom V.I.Spitsynym.
(Carbon monoxide) (Palladium) (Adsorption)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, N. N.; SOKOLOVA, N. P.

Infrared spectra of carbon monoxide adsorbed on gold and silver at low temperatures. Zhur. fiz. khim. 36 no.12:2804-2805 D '62. (MIRA 16:1)

1. Institut fizicheskoy khimii AN SSSR.

(Carbon monoxide—Spectra) (Gold) (Silver)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, N.N.

Adsorption of gases on metals. Zhur. fiz. khim. 36 no.3:626-629 Mr '62. (MIRA 17:7)

1. Institut fizicheskoy khimii AN SSSR.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, N.N.; SOKOLOVA, N.P.

Adsorption of carbon monoxide on copper and the structure of its surface compounds from infrated spectrum data. Dokl. AN SSSR 146 no.6:1367-1369 O '62. (MIRA 15:10)

1. Predstavleno akademikom V.I. Spitsynym.
(Carbon monoxide—Spectra) (Copper)
(Surface chemistry)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

ACCESSION NR: AP4034588 S/0076/64/038/004/1004/1005

AUTHOR: Kavtaradze, N. N.; Sokolova, N. P.

TITLE: Infrared spectra of CO chemisorbed on cobalt.

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 4, 1964, 1004-1005

TOPIC TAGS: chemisorption, infrared spectroscopy, carbon monoxide, carbonyl bond, cobalt

ABSTRACT: In this investigation study was made of the surface compounds of CO on cobalt at 20, -78 and -195C. The CO pressure was changed from 1.3 to 10^{-5} mm. In the spectrum of chemisorbed CO absorption bonds were found in 2140, 2070, 1950 and 1820 cm^{-1} regions. In accordance with the adsorption data and in analogy to known carbonyls, the 2070 cm^{-1} band belongs to linear structure and 1950 and 1820 cm^{-1} to the bridge structures of strongly sorbed CO. It is postulated on the basis of experimental data than on Ni and Fe at pressure of CO of the order of 1 - 10 mm one should also observe bands which are characteristic of reversible chemisorption. Orig. art. has: 1 table and 1 figure.

Card 1/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

ACCESSION NR: AP4034588

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences SSSR)

SUBMITTED: 18May63

SUB CODE: NP, GC

NO REF SOV: 005

ENCL: 00

OTHER: 003

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, N.N.; SOKOLOVA, N.P.

Infrared spectra of carbon monoxide chemisorbed on cobalt.
Zhur. fiz. khim. 38 no.4:1004-1005 Ap '64. (MIRA 17:6)

1. Akademiya nauk SSSR, Institut fizicheskoy khimii.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, N.N.; SOKOLOVA, N.P.; LUK'YANOVICH, V.M.; YEVKO, E.I.

Preparation and structure of solid finely dispersed metals for spectral studies. Kin.i kat. 5 no.6:1095-1099 N-D '64. (MIRA 18:3)

1. Institut fizicheskoy khimii AN SSSR.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, N.N.; SOKOLOVA, N.P.

Infrared spectra of carbon monoxide adsorbed on ruthenium, rhodium, and palladium within a wide temperature range. Dokl. AN SSSR 162 no.4:847-850 Je '65. (MIRA 18:5)

1. Institut fizicheskoy khimii AN SSSR. Submitted November 20, 1964.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

L 22071-66 EWT(m)/EPF(n)-2/T/EWP(t) IJP(c) JD/WW/JG

ACC NR: AP6008050 SOURCE CODE: UR/0020/66/166/004/0880/0882

AUTHOR: Kuleshov, I. M.; Shishakov, N. A.; Kavtardze, N. N.; Sokolova, N. P. 32

ORG: Institute of Physical Chemistry, Academy of Sciences SSSR (Institut fizicheskoy khimii Akademii nauk SSSR) B

TITLE: Study of the structural transformations of UO_2 under the influence of high temperature and zirconium or thorium dioxide admixtures

SOURCE: AN SSSR. Doklady, v. 166, no. 4, 1966, 880-882

TOPIC TAGS: zirconium compound, thorium compound, uranium compound

ABSTRACT: The effect of ZrO_2 and ThO_2 admixtures and thermal pretreatment on the properties and structure of uranium dioxide was studied on samples prepared by co-precipitating the hydroxides, reducing to UO_2, grinding into a powder and pressing into pellets, then hardening and quenching. The transformations taking place were observed by chemical and spectral (x-ray and infrared) methods. It is shown that thermal hardening of pressed UO_2 in the presence of small amounts of ZrO_2 or ThO_2 at high temperatures (1600°C) causes an increase in its crystal lattice parameters

UDC: 541.66

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

L 22071-66

ACC NR: AP6008050

and changes in the absorption bands in the infrared spectra. These structural changes also substantially affect the vaporization of UO_2. The latter is decreased by the presence of ZrO_2 and ThO_2. The paper was presented by Academician V. I. Spitsyn on 3 June 1965. Orig. art. has: 3 tables.

SUB CODE: 07/ SUBM DATE: 03Jun65/ ORIG REF: 004/ OTH REF: 003

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, N. P.

"The Problem of Topical Diagnosis of Brain Tumors." Cand Med Sci, Tbilisi State Medical Inst, Tbilisi, 1955. (KL, No 16, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, P. P.

KAVTARADZE, P. P., CHAGARIDZE, M. I. "Vasotropic and secretory disturbances in firearm wounds to the peripheral nerves of the extremities", In the collection: pyatnadtsat' let nauch.-prakt. deyatel'nosti Kliniki i Otd-niya nervnykh bolezney (Tbilis, gos. med. in-t. I Gor. b-tsa), Tbilisi, 1948, p. 93-107.

SO: U-4631, 16 Sept 53, (Letopis 'Zhurnal 'nykh Statey, No. 24, 1949).

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, P.P.

22685 Kavtaradze, P.P. I Ealesskiy, F.I. K Diagnostike Mestnogo Khronicheskigo Stolbnyaka Trudy (Tbilis. Gos. Med.In-T), T.V., 1948, S. 256-61 — N A Gruz Yaz — Rezyume NA Rus Yaz

So. Letopis', No. 30, 1949

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

PONDOYEV, Gavriil Sergeyevich, zasluzhennyy vrach Gruzinskoy SSR; KAVTARADZE, P.P., prof., red.; KANDELAKI, D., red. izd-va; KHUTSISHVILI, V., tekhn. red.

[Notes of a physician] Zametki vracha. Izd.3., znachitel'no ispr. i dop. Tbilisi, Gos. izd-vo "Sabchota Sakartvelo," 1961. 309 p. (MIRA 14:8)

(PHYSICIANS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

TARKHANOV, I.R.[deceased]; SAAKASHVILI, M.G., prof.; GEDEVANISHVILI, D.M., prof., zasl. deyatel' nauki, otv. red.; ASATIANI, V.S., red.; ZHGENTI, V.K., red.; ZURABASHVILI, A.D., red.; KAVTARADZE, P.P., red.; ERISTAVI, K.D., akademik, prof., red.; TSULUKIDZE, A.P., red.; TATISHVILI, I.Ya., red.; KUTATELADZE, I.G., red.; VANIDZE, TS.V., red. izd-va; KHUNDADZE, Z., tekhn. red.

[Selected writings] Izbrannye sochineniia. Tbilisi, Gos. izd-vo "Sabchota Sakartvelo," 1961. 393 p. (MIRA 15:6)

1. Chlen-korrespondent Akademii nauk Gruzinskoy SSR (for Gedevanishvili). 2. Akademiya nauk Gruzinskoy SSR (for Eristavi). (Physiology)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

NIKOBADZE, I.I.; TATISHVILI, Ir.Ya.; KURCHISHVILI, I.B.; ZHGENTI, V.K., akademik, red.; ZURABASHVILI, A.D., akademik, red.; KAVTARADZE, P.P., akademik, red.; TSULUKIDZE, A.P., akademik, red.; ERISTAVIK K.D., akademik, red.; CHITAYA, G.S., red.; KHUNDADZE, G.R., zasl. deyatel' nauki, prof., red.; MESKHIA, Sh.A., prof., red.

[Basic stages of the development of medicine in Georgia] Osnovnye etapy razvitiia meditsiny v Gruzii. Tbilisi, Izd-vo "Metsniereba," 1964. 286 p. (MIRA 17:12)

1. Akademiya nauk Gruzinskoy SSR (for Zhgenti, Zurabashvili, Kavtaradze, TSulukidze, Eristavi). 2. Chlen-korrespondent AN Gruzinskoy SSR (for Chitaya, Khundadze, Meskhia).

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

PKHALADZE, G.M., prof.; MACHAVARIANI, S.N., dotsent; TSINTSADZE, A.N.; MAGRADZE, K.G., dotsent; POCHKHUA, P.E.; CHOCHUA, D.V., kand. med. nauk; KOTARIYA, V.G., kand. med. nauk; KADAGIDZE, K.I., kand. med. nauk; GURABANIDZE, T.A., kand. med. nauk; PKHAKADZE, A.S., kand. med. nauk; AMIRIDZE, M.V., kand. med. nauk; KAVTARADZE, V.A., kand. med. nauk; KUTALADZE, L.A., kand. med. nauk; TSAGARELI, G.G., kand. med. nauk, [deceased]; KENCHADZE, I., kand. med. nauk; ABASHIDZE, N.G., kand. med. nauk; KHMALADZE, T.I., kand. med. nauk; DZHADZHANIDZE, D.V., kand. med. nauk

Effectiveness of the treatment of infectious syphilis (stage I and II) with bicillin-1 and bicillin-3. Vest. derm. i ven. no.1:56-61 '65. (MIRA 18:10)

1. Tbilisskiy nauchno-issledovatel'skiy kozhno-venerologicheskiy institut (dir.- dotsent S.N. Machavariani) i kafedra kozhno-venericheskikh bolezney (zav.- prof. G.M. Pkhaladze) Tbilisskogo instituta usovershenstvovaniya vrachey.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

USSR / Human and Animal Physiology. Vessels. T

Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 70191

Author : Kavtaradze, V. G.
Inst : Not given
Title : Changes of Venous Pressure in Stimulation of the Urinary Bladder and the Gallbladder

Orig Pub : Sabchota meditsina, 1957, No 5, 12-14

Abstract : No abstract given

Card 1/1

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

Diagnostic value of globulin tests in exudative inflammations of the serous membranes. Klin.med. 35[i.e.34] no.1 Supplement:15-16 Ja '57. (MIRA 11:2)

1. Iz 1-y terapevticheskoy kafedry (zav. - prof. I.N.TSintsadze) Tbilisskogo instituta usovershenstvovaniya vrachey.
(BLOOD PROTEINS) (VISCERA--DISEASES)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTARADZE, V. G., Doc Med Sci -- (diss) "Materials on the regulation of venous pressure. (Clinicoexperimental Research)." Tbilisi, 1960. 40 pp; 1 page of tables; (Tbilisi State Medical Inst); 300 copies; free; (KL, 29-60, 126)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTAZ'YEV, A.I.

KAVTAZ'YEV, A.I.

Experience organizing the delivery of printed matter. Vest. sviazi 17 no.12:21 D '57. (MIRA 10:12)

1. Nachal'nik otdela organizatsii i ekspluatatsii Odesskogo pochtamta. (Postal service)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

KAVTELADZE, B.M.

Study of the natural radioactivity of some soils and plants in the Georgian S.S.R. Soob. AN Gruz. SSR 28 no.5:583-586 My '62. (MIRA 18:5)

1. Institut botaniki AN GruzSSR, Tbilisi. Submitted February 2, 1961.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220002-5

L 12815-66 EWT(1)/EWA(j)/T/EWA(b)-2 JK

ACC NR: AP5028181 SOURCE CODE: UR/0248/65/000/008/0029/0031

AUTHOR: Bitkova, A. N.; Koptelova, Ye. I.; Kavtorina, R. P.

ORG: Institute of Epidemiology and Microbiology im. N. F. Gamalei, AMN SSSR, Moscow (Institut epidemiologii i microbiologii AMN SSSR)

TITLE: Chemical composition of the group A β-hemolytic streptococcus L-culture and of its reversants

SOURCE: AMN SSSR. Vestnik, no. 8, 1965, 29-31

TOPIC TAGS: bacteria, microbiology

ABSTRACT: The purpose of this study was to determine what changes occur in the chemical composition of the basic components of group A β-hemolytic streptococci during transformation to the L-form and during reversion. Analyses carried out on vacuum-dried cells showed that definite chemical changes occur in such transformations and that these changes are not completely restored during the reversion from the L-form to the initial culture. In the L-form culture there was a reduction in the amount of nitrogen- and phosphorus-containing components, of hexamines and

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ACC NR: AP5028181

nucleic acids with the RNA/DNA ratio decreasing almost half. At the same time the amount of reducing substances and ash was found to be greater than initially. The lack of complete restoration of the above-named components during reversion is apparently due to drastic alteration in cellular metabolism. Similar changes were found in the chemical composition of the antigens of the three culture forms. Paper chromatography revealed profound changes in the carbohydrate components of the L-forms with rhamnose completely absent and ribose present in very small amounts. The amounts of glucose and galactose, on the other hand, were found to be increased. Orig. art. has: 2 tables.

SUB CODE: 06/ SUBM DATE: 02Jun65/ ORIG REF: 000/ OTH REF: 000

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Card 2/2

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