PANKRATOV, V. M.; STRUTINSKIY, V. M.

Possibility for studying fission at a definite excitation energy of the compound nucleus. Atom. energ. 14 no.2:171-176 F '63. (MIRA 16:1)

(Nuclear fission)

PANKRATOV, V. M.

Cross sections of the fission of Th^{232}, U^{233}, Np^{237}, and U^{238} by neutrons in the energy range 5-37 Mev. Atom. energ. 14 no.2: 177-184 F '63. (MIRA 16:1)

(Radioisotopes) (Nuclear fission)
(Neutrons)

ROSSIYSKIY, Vladimir Alekseyevich, prof.; NAZARENKO, Boris Pavlovich, kand. tekhn. nauk; SLOVINSKIY, Nikolay Aleksandrovich, kand. tekhn. nauk; GIBSHMAN, Ye.Ye., prof., doktor tekhn. nauk, retsenzent; KALMYKOV, N.Ya., doktor tekhn. nauk, prof., retsenzent[deceased]; POLIVANOV, N.I., prof., doktor tekhn. nauk, retsenzent; KIRILLOV, V.S., kand. tekhn. nauk, retsenzent; BASOV, S.Ye., inzh., retsenzent; PANKRATOV, V.M., inzh., red.; GANYUSHIN, A.I., red.izd-va; BODANOVA, A.P., tekhn. red.

[Examples of the design of precast reinforced concrete bridges] Primery proektirovaniia sbornykh zhelezobetonnykh mostov. Moskva, Avtotransizdat, 1962. 494 p. (MIRA 16:2)

1. Glavnyy spetsialist po mostam Khar'kovskogo otdeleniya Gosudarstvennogo proyektnogo instituta po promyshlennomu transportu (for Basov).

(Bridges, Concrete--Design and construction)

45138

S/089/63/014/002/006/019
B102/B186

24.6600

AUTHOR: Pankratov, V. M.

TITLE: Th^{232}, U^{233}, U^{235}, Np^{237}, U^{238} fission cross sections for 5 - 37 Mev neutrons

PERIODICAL: Atomnaya energiya, v. 14, no. 2, 1963, 177 - 184

TEXT: Measurements of the fission cross sections of Th^{232} and U^{238} at E_n = 22 - 37 Mev, of U^{235} and Np^{237} at E_n = 22 - 27 Mev, of U^{233} at E_n = 10 - 22 Mev, and supplementary measurements at E_n = 5 - 10.5 Mev were carried out with the aid of the 1.5 m cyclotron of the Ordena Lenina institut atomnoy energii im. I. V. Kurchatova (Lenin Order Institute of Atomic Energy imeni I. V. Kurchatov). The neutrons came from $D(d,n)He^3$ and $T(d,n)He^4$ reactions. With two modes of operation the accelerator provided 9.9 Mev deuterons for measurements in the E_n range of 22 - 27 Mev (T reaction) and 5 - 10.5 Mev (D reaction) or 19.5 Mev deuterons for the range of 27 - 37 Mev (T) and 10 - 22 Mev (D). Within the ranges, E_d was

Card 1/3

modulated by a platinum moderator filter. All measurements were made at 0° to the incident beam. The monoenergetic neutrons were filtered out according to the time-of-flight method by means of a fast-neutron single-channel spectrometer (time resolution $3 \cdot 10^{-9}$ sec). Gas scintillation counters were used as fission detectors; their scintillations were recorded by ФЭУ-33 (FEU-33) photomultipliers. From the time spectra of the fragment momenta taken for the individual isotopes and using the $\sigma(E_n)$ curves the fissilities were calculated under the assumption that the energies of the compound nuclei were 8 - 10 Mev. The results are listed in the table. There are 12 figures and 1 table.

SUBMITTED: May 4, 1962

24.6600

S/089/63/014/002/005/019
B102/B186

AUTHORS: Pankratov, V. M., Strutinskiy, V. M.

TITLE: Study of a fission possibility at a definite excitation energy of the compound nucleus

PERIODICAL: Atomnaya energiya, v. 14, no. 2, 1963, 171 - 176

TEXT: Interpretation of the experimental results when the energy of the particles released during fission is in the region of 10-Mev encounters difficulties due to one or more neutrons being emitted in one part of the fissions. In an attempt to circumvent these difficulties a method was developed for calculating mass and energy distributions of the fission fragments. This method is suitable for cases where the distribution can be assumed to depend only on the nucleon composition and excitation energy of the compound nucleus and not on its mechanism of formation. The observed distributions of the two initial fissile nuclei can then be compared as between those whose neutron numbers differ by those whose initial excitation energies differ by $\overline{\Delta U} = B_n + \bar{\varepsilon}$ where B_n is the neutron binding energy and $\bar{\varepsilon}$ is its mean kinetic energy. If it be further assumed that the nuclear

Card 1/2

FISHER, G.S., inzh.; PANKRATOV, V.M., inzh.; KLOCHKOV, B.V.

Modern designs of span structures. Avt.dor. 23 no.11:15-17 N'60. (MIRA 13:11)

(Bridges, Concrete) (Viaducts)

MEL'NIKOV, S.M.; FOMICHEV, A.I.; PANKRATOV, V.N.; POLYANSKIY, P.T.

Mining 58,200 tons of coal in 31 workdays with the "Donbass-2k" cutter-loader. Ugol' 40 no.8:75-76 Ag '65. (MIRA 18:8)

1. Glavnyy inzh tresta Oktyabr'ugol' (for Mel'nikov).
2. Shakhta No.33/34 tresta Oktyabr'ugol' kombinata Karagandaugol' (for Fomichev, Pankratov, Polyanskiy).

PANKRATOVA, V.N.; LATYAYEVA, V.N.; RAZUVAYEV, G.A.

Oxidation of diphenylcadmium in organic solvents. Zhur. ob. khim. 35 no.5:900-903 My '65. (MIRA 18:6)

BLYUSKIN, Ye. M., inzh.; IL'IN, R.A., inzh.; PANKRATOV, V.P., inzh.

Operation of equipment subjected to boiler inspection without accidents. Bezop. truda v prom. 3 no.6:29-30 Je '59. (MIRA 12:10)

1. Dolgoprudnenskiy zavod krasiteley.
(Industrial safety)

AUTHOR: Pankratov, V. P.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012390

NO REF SOV: 003 OTHER: 004

ZABLOTSKIY, Yu.A.; PANKRATOV, V.P.; IOKHEL'SON, M.Z.

Equipment for concreting mine shafts. Gor. zhur. no.4:46 Ap '58. (MIRA 11:4)

(Mining machinery--Patents)

L 9031-66 EWT(d)/EWT(m)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(l)/EWA(h)/EWA(c)

ACC NR: AP5024956 JD/HW

SOURCE CODE: UR/0286/65/000/016/0018/0018

AUTHORS: Stepanov, V. G.; Pankratov, V. P.; Lomov, A. A.

44 55 44 55 44 55

ORG: none

53 B

TITLE: Dismountable tank for hydro-explosive forming. Class 7, No. 173696 [announced by Organization of the State Committee on Shipbuilding, SSSR (Organizatsiya gosudarstvennogo komiteta po sudostroyeniyu SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 18

TOPIC TAGS: explosive forming, hydro explosive forming, explosion tank, metal-working

44,55,10 44 55

ABSTRACT: This Author Certificate presents a dismountable tank for hydro-explosive forming, consisting of stacked circular sections which are sealed along the perimeter and reinforced by external ribs (see Fig. 1). To increase life and flexibility of use, the sections can be disassembled vertically into two or more parts which have vertical ribs along the separation lines and which can be assembled by using clamps. To decrease the tank expansion during the blast, a second feature provides holes in the vertical ribs through which cables can be passed.

Card 1/2

UDC: 621.983.044.06

L 9031-66

ACC NR: AP5024956

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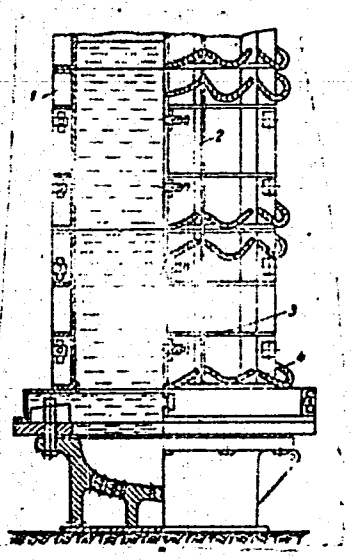

Fig. 1. 1 - Sections;
2 - vertical ribs;
3 - clamps;
4 - cable.

Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 12Feb64

Card 2/2

NIKONOV, Sergey Nikolayevich; PANKRATOV, Vladimir Petrovich; ADLERSHTEYN, L.TS., inzh., retsenzent; PUGACHEV, A.S., retsenzent; PIS'MENSKOV, V.F., inzh., nauchnyy red.; SOSIPATROV, O.A., red.; KRYAKOVA, D.M., tekhn. red.

[Lay-off man in shipbuilding]Sudovoi razmetchik. Leningrad, Sudpromgiz, 1962. 217 p. (MIRA 15:12)
(Laying off (Shipbuilding))

ZEFIROV, Igor' Vasil'yevich; NIKONOV, Sergey Nikolayevich; PANKRATOV, Vladimir Petrovich; ORLOV, N.L., rabochiy-razmetchik, retsenzent; RIMMER, A.I., inzh, retsenzent; SHAKHOV, A.I., inzh., nauchn. red.; LISOK, E.I., red.

[Laying off in shipbuilding] Sudovaia razmetka. Leningrad, Sudostroenie, 1965. 411 p. (MIRA 18:8)

TIKHONOV, Yu.N.; PANKRATOV, V.V.

Thermodynamics of chemical reactions during the precipitation and alloying of silicon from the gas phase. Izv. vys. ucheb. zav.; tsvet. met. 7 no.5:95-99 '64 (MIRA 18:1)

1. Kafedra proizvodstva chistykh metallov i poluprovodnikovykh materialov Moskovskogo instituta stali i splavov.

PANKRATOV, V.Ye.

Repairing friction presses. Stan. i instr. 26 no.5:32 My '55.
(Power presses--Repairing) (MLRA 8:8)

ABBASOV, A.R.; GRIBINSKIY, A.S.; DERAGOVA, M.S.; [illegible], V.A.; [illegible], [illegible]; MOLCHANOV, A.F.; [illegible], V.L.; PAVLKRATOV, Ye.I.; SUKHANOV, A.G.; YUDIN, O.I.; YASHOV, L.V.

Radioastronomical observations of the solar eclipse of July 21, 1963 in the microwave band. Vest. LGU 20 no.1:102-109 '65.
(MIRA 18:2)

6 c

L 30012-65 FBD/EWT(1)/EWG(v)/EEC-4/EEC(t) Pe-5/Pq-4/Pae-2/Pi-4 GW/WS
S/0043/65/000/001/0102/0109
ACCESSION NR: AP5005782

AUTHOR: Abbasov, A. R.; Grebinskiy, A. S.; Durasova, M. S.; Ivanov, V. A.; Ignat'yeva, L. M.; Molchanov, A. P.; Myasnikov, V. L.; Pankratov, Ye. I.; Sukhanov, A. G.; Yudin, O. I.; Yasnov, L. V.

45
B

TITLE: Radioastronomic observations on the centimeter wave of the solar eclipse on 21 July 1963

SOURCE: Leningrad. Universitet. Vestnik. Seriya matematiki, mekhaniki i astronomii, no. 1, 1965, 102-109

TOPIC TAGS: solar eclipse, solar atmosphere, residual radiation, terrestrial atmosphere, radio emission, sunspot

ABSTRACT: An expedition went to Simushir Island to observe the time of the second and third radio contacts of the solar eclipse of 21 July 1963 for detecting the height of rapid changes in the solar atmosphere during the period of weak solar activity and for measuring the residual radiation flux during the period of total cover of the Sun. The detection of local sources of radio emission from the Sun during the total eclipse and measurements of the Earth's own atmospheric radiation were also included in the expedition's task. The solar disk was covered with two groups of

Card 1/2

L 30012-65
ACCESSION NR: AP5005782

sunspots, of which one persisted only two days including the day of the eclipse. The refraction, absorption, and proper radiation of the Earth's atmosphere influenced observation data. The absorption and atmospheric radiation were specially measured before and after the eclipse. Strong fluctuations of the solar radio emission between the first and second contacts were recorded on 3.2- and 10-cm wavelengths. The amplitude of fluctuations diminished with the increase of solar height and did not depend on wavelength. A difference was observed between the optical and radio contact times. The residual radio emission corrected for absorption in the terrestrial atmosphere is given in a table in the original article. An emission of local sources has been recorded on 4-, 5-, and 10-cm waves. The local source was identified with the spot group which lasted only two days. The height of the local source was determined to be in a space span from 7000 to 20,000 km above the solar surface. Orig. art. has: 3 figures, 7 tables, and 4 formulas. [EG]

ASSOCIATION: none

SUBMITTED: 24Jan64 ENCL: 00 SUB CODE: AA, ES

NO REF SOV: 004 OTHER: 002 ATD PRESS: 3196

Card 2/2

KAPELYUSHNIKOV, German Isaakovich; KLITSUNOV, Viktor Igant'yevich; MANEVICH, Veniamin Fayvovich; PANKRATOV, Yu.A., inzh., retsenzent; ZASADYCH, B.I., retsenzent; FEDOTOV, A.N., otv. red.; OKHRIMENKO, V.A., red. izd-va; IL'INSKAYA, G.M., tekhn. red.

[Safety measures in underground coal mining] Tekhnika bezopasnosti pri podzemnoi dobyche uglia. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1962. 503 p. (MIRA 15:4)

(Coal mines and mining--Safety measures)
(Coal miners--Diseases and hygiene)

PANKRATOV, Yu.B.

International film exchange between academies of sciences of Union republics (short reference). Vest. AN SSSR 24 no.9:83-84 S '54. (MLRA 7:9)

(Libraries and motion pictures) (Motion-picture film collections)

USSR/ Scientific Organization

Card 1/1 : Pub. 124 - 18/24

Authors : Pankratov, Yu. B.

Title : International book exchange between the Academies of Science of allied republics

Periodical : Vest. AN SSSR 9, 83-84, Sep 1954

Abstract : Brief report on the international book-exchange between the Academies of Science of the USSR and other countries of the world is presented. The importance of the exchange of scientific publications between countries of the Soviet bloc and western countries is explained.

Institution : ...

Submitted : ...

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012390

PANKRATOV, Yu. F. Cand Tech Sci -- (diss) "Study of methods for optimizing the compactness ~~the maximum increase in the firmness~~ of compressed multichamotte refractory materials," ~~containing a high percentage of chamotte.~~"

Mos, 1957. 14 pp with graphs ~~diagrams~~ 23 cm. (Min of Higher Education USSR. Mos Order of Lenin Chemico-technological ~~Chem-Technological~~ Engineering Inst im D.I. Mendeleyev.)

120 Copies. (KL, 23-57, 113)

POPIL'SKIY, R. a.; PANKRATOV, Yu. F.; KOYFMAN, N. M.

Formation of a nonporous structure in polycrystalline corundum. Dokl. AN SSSR 155 no. 2:326-329 Mr '64. (MIRA 17:5)

1. Nauchno-issledovatel'skiy institut elektrovakuumnogo stekla. Predstavleno akademikom S. A. Vekshinskim.

Pankratov, Yu. F.

USSR/Chemical Technology - Chemical Products and Their Application. Ceramics. Glass. Binders. Concrete. H-7

Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 2001

Author : Pankratov Yu.F., Poluboyarinov D.N., Popil'skiy R.Ya.

Inst :

Title : Study of Procedures for Increasing the Density of Pressed Articles Having a High Content of Chamotte.

Orig Pub : Ogneupory, 1957, No 3, 109-120

Abstract : A description of the results of a study of procedures for increasing the density of pressed high-chamotte refractories with kaoline chamotte base. Investigated were the effects of the following factors: composition of high-chamotte mixtures, limited to the composition ranges of 30-65% coarse chamotte fraction, 20-55% fine chamotte fraction, 0-30% clay; paste preparation procedure; degree of comminution of fine chamotte fractions; grain size of coarse chamotte fraction; pressure of

Card 1/3

USSR/Chemical Technology - Chemical Products and Their Application. Ceramics. Glass. Binders. Concrete. H-7

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2001

press-working; use of kaolin binder in lieu of clay binder; increased duration of firing and of the possibility of substituting fine chamotte fraction for the clay in high-chamotte pastes. It was found that the composition yielding highest density of green ware press-worked at 600 kg/cm^2 is within the following range (in %): coarse chamotte fraction 45-60, fine chamotte fraction 20-35, clay 15-20. Range of optimal compositions, as concerns density of fired body, corresponds to a content of 30-45% coarse chamotte fraction, 45-55% fine chamotte fraction, 10-20% clay. A sharp decrease in the density of green ware and of fired body is observed on lowering the content of clay below 10%. It is recommended to grind together the fine chamotte fraction and the clay, and use an additional preparation of the moistened paste. Optimal comminution of the fine fraction corresponds to a 10% content

Card 2/3

PANKRATOV, Yu.F.; POLUBOYARINOV, D.N.; POPIL'SKIY, R.Ya.

Investigating ways of increasing the density of compressed products with a high percentage of grog. Ogneupory 22 no.3: 109-120 '57. (MLRA 10:5)

1. Institut im. D.I. Mendeleyeva.
(Refractory materials)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012390

isometric form, characterized by a slow increase in size with rise in temperature

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012390

PANKRATOVA, A. D.

PANKRATOVA, A. D. -- "The Communist Party and the Soviet Government in the Struggle to Prepare and Carry Out the General Obligatory Elementary Teaching from 1917-1932." Moscow Order of Lenin and Order of Labor Red Banner State U imeni M. V. Lomonosov. Chair of Pedagogy. Moscow, 1955. (Dissertation for the Degree of Candidate in Pedagogical Sciences)

SO: Knizhnaya Letopis', No 1, 1956

The dynamics of organic residues in sod rotations. A. M. Byalel, N. G. Khomatova, and A. F. Pankratova (Inst. [illegible] Vasil'evska, U.S.S.R.). [illegible] Agrobiologiya, 1956, No. 5, [illegible] 11 [illegible] types of sod in grain culture show that the [illegible] matter of an older sod has a higher N and P content than a young sod. Perennial grasses accumulate most N and P in bottom lands, followed by areas between shelter belts, with the lowest amount in the open steppe. J. S. J.

(2)

MASSOVA, N.; PANKRATOVA, E.

Change-over to a continuous power supply circuit on an existing network. Trudy LIEI no.16:146-151 '57. (MLRA 10:8)
(Electric networks)

ZAYONTS, R. M., kand. tekhn. nauk; PANKRATOVA, G. F., inzh.

Cordierite kiln shelves made of refractory clays and magnesite. Stek. i ker. 20 no.3:23-26 Mr '63. (MIRA 16:4)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut stroitel'noy keramiki.

(Kilns—Equipment and supplies)
(Refractory materials)

15 (2)

S/131/60/000/02/006/014
B015/B008

AUTHORS: Pankratova, G. F., Polubovarinov, D. N., Zayonts, H. M.

TITLE: Cordierite Ceramics - a Heat-resistant Difficultly Fusible Material

PERIODICAL: Ogneupory, 1960, Nr 2, pp 73-76 (USSR)

ABSTRACT: In the paper under review the authors explain the elaboration of the processes and the investigation of the properties of cordierite products. The chemical composition of refractory clay types and of the raw magnesite which were used for the synthesis of the cordierite, is listed in table 1. The cordierite bricks were manufactured at the experimental plant of the NIIStroykeramika from 50% cordierite chamotte and 50% binding agents (Table 2). The properties of the cordierite products, dependent on the content of MgO, are mentioned in table 3. It is established in conclusion that the components of the cordierite products must be finely ground and exactly dosed. In other respects the technology of the cordierite products does not differ from that of refractory chamotte products. By using refractory clay types with a high content

Card 1/2

35432

S/081/62/000/004/050/087
B150/B138

15.2210

AUTHORS: Pankratova, G. F., Poluboyarinov, D. N., Zayonts, R. M.

TITLE: Synthesis of cordierite from refractory clays and magnesite

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1962, 381, abstract 4K232 (Tr. Gos. Vses. n.-i. in-ta stroit. keramiki, no. 15, 1960, 3-19)

TEXT: The possibility is investigated, of cordierite synthesis on the basis of refractory clays and natural magnesite. In this case intensive formation of cordierite takes place at 1300 - 1400° C. The thermal expansion coefficient of these masses lies in the range $0.87 - 1.13 \cdot 10^{-6}$. The most massive formation of cordierite occurs when crude magnesite is used. To produce cordierite articles with a thermal expansion coefficient of $\sim 1 \cdot 10^{-6}$ crude magnesite with grains <0.06 mm must be used.
[Abstracter's note: Complete translation.]

Card 1/1

CHUYKO, O.V.; BORISYUK, Yu.G. [Borysiuk, Iu.H.]; PANKRATOVA, G.M. [Pankratova, H.M.]

Effectiveness of the action of volatile oils and their separate components on various groups of microbes. Report no.2: Study of the antibacterial characteristics of some components of volatile oils in experiments on animals. Farmatsev. zhur. 15 no.6:42-44 '60. (MIRA 14:11)

1. Khar'kovskiy farmatsevticheskiy institut, kafedry mikrobiologii i farmakognozii.

(LINALOOL) (BACTERIA, EFFECT OF DRUGS ON)
(PNEUMONIA)

USSR/Cultivated Plants - Fruits. Berries. M.

Abs Jour : Ref Zhur - Biol., No 10, 1958, 44318

Author : Pankratova, I.V., Podgornaya, A.S.

Inst : Kuban Agricultural Institute.

Title : Selection of Pollinators and Inter-Pollinators for New Varieties of Strawberries.

Orig Pub : Sb. stud. nauchn. rabot. Kubansk. s.-kh. in-t, 1956 (1957), vyp. 1, 77-81.

Abstract : 21 combinations of numbered seedlings with the standard varieties of Kuban were used in the experiment on the study of pollination and inter-pollination of the strawberry on the plantation of the study-experimental establishment of the Kuban Agricultural Institute. The Kuban standard varieties were: Joseph Magomet, Muto, Ranniya Mosvira.

Card 1/2

MIKHAYLOVA, N.P., dotsent; ZEFIROVA, N.P., dotsent; PANKRATOVA, K.V., assistent.

Pathomorphological changes in the placenta in late toxemias and prolonged pregnancy. Akush. i gin. 39 no.3:77-81 My-Je'63 (MIRA 17:2)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. S.S. Dobrotin) i kafedry patologicheskoy anatomii (zav. - prof. M.L.Biryukov) Gor'kovskogo meditsinskogo instituta imeni S.M. Kirova.

SHAFRAN, I.G.; STEPANOVA, A.G.; PANKRATOVA, L.I.

Iodometric determination of thiourea dioxide. Trudy IREA no.25: 215-220 '63. (MIRA 18:6)

KUNIN, T.I.; SHUTOV, A.A.; PANKRATOVA, L.I.

Specific heats of aqueous solutions of sulfuric acid and nitric acid mixtures. Zhur. prikl. khim. 34 no.2:451-454 F '61. (MIRA 14:2)

(Sulfuric acid) (Nitric acid)
(Heat capacity)

PANKRATOVA, L.N.; VLASOV, L.G.; LAPITSKIY, A.V.

Complex formation of zirconium with diethylenetriaminopentaacetic acid and 1,2-diaminocyclohexanetetraacetic acid. Zhur. neorg. khim. 9 no.6:1363-1368 Je '63 (MIRA 17:8)

PANKRATOVA, L.N.; SAVICH, I.A.; LAPITSKIY, A.V.

Complex formation of an uranyl ion with some Schiff bases.
Radiokhimiia 5 no.1:114-118 '63. (MIRA 16:2)
(Uranyl compounds)
(Schiff bases)

PANKRATOVA, L.N.; LAPITSKIY, A.V. [deceased]

Calculation of the activation energy of self-diffusion of zirconium complexonates. Vest. Mosk. un. Ser. 2: Khim. 20 no.6:39-40 N-D '65. (MIRA 19:1)

1. Kafedra radiokhimii Moskovskogo universiteta. Submitted April 8, 1965.

PANKRATOVA, L.N.; VLASOV, L.G.; LAPITSKIY, A.V.

Interaction of zirconium with some complexons. Zhur. neorg. khim. 9 no.7:1763-1765 Jl '64. (MIRA 17:9)

1. Moskovskiy gosudarstvennyy universitet.

PANKRATOVA, L.N.; VLASOV, L.G.; LAPITSKIY, A.V.

Certain characteristics of the behavior of zirconium 95 in carrier-free solutions. Radiokhimiia 5 no.4:519-520 '63. (MIRA 16:10)

(Zirconium isotopes)

KARYAKIN, A.V.; LAPITSKIY, A.V.; PANKRATOVA, L.N.; PETROV, A.V.

Infrared spectra of zirconium and hafnium compounds with some complexons in solution. Zhur. strukt. khim. 5 no.5:702-706 S-O '64 (MIRA 18:1)

1. Institut geokhimii i analiticheskoy khimii AN SSSR i Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

LAPITSKIY, A.V.; VIZCIN, V.P.; PANKRATOVA, L.N.

Reaction of uranium tetrachloride with some Schiff bases. Vest.Mosk. un.Ser.2:Khim. 19 no.4:39-44 Jl-Ag '64. (MIRA 18:8)

1. Kafedra radiokhimii Moskovskogo universiteta.

S/186/63/005/001/010/013
E075/E436

AUTHORS: Pankratova, L.N., Savich, I.A., Lapitskiy, A.V.

TITLE: Complexing of uranyl-ion with some Schiff bases

PERIODICAL: Radiokhimiya, v.5, no.1, 1963, 114-118

TEXT: The authors determined the dissociation constants of internal complex compounds formed from salicylal-aminopyridine or its halogeno-derivatives and UO_2^{2+}. The bases used were: 2-salicylal-aminopyridine, 5-chloro-, 5-bromo- and 5-iodo-2-salicyl-aminopyridine. The dissociation constants of the complexes were determined by potentiometric titration with an alkali at pH values ranging from 3 to 6. The constants were calculated using Bochkova's equation

$$pK = pH + \lg\left(\frac{V_o M_o}{V_1 M_1} - 1\right)$$

where V_o - volume of dioxane solution of a Schiff base, M_o - its molarity, V_1 - volume of added alkali and M_1 - normality of the alkaline solution. The constants increased from 2.3×10^{-10} to 3.1×10^{-6} for the bases in the order H-, Cl-, Br-

Card 1/2

Complexing of uranyl-ion ... S/186/63/005/001/010/013
E075/E436

and I- derivatives. The stability constants for the complexes were determined using B'yerrum's graphical method. The constants decreased from 2.0×10^{11} to 1.0×10^{6} for the H-, Cl-, Br- and I-derivatives in this order. There are 1 figure and 3 tables.

SUBMITTED: December 18, 1961

Card 2/2

LUK'YANOV, V.B.; PANKRATOVA, L.N.; LAPITSKIY, A.V.

Evaluation of accuracy of a determination of Ki (instability constant) by a restricted-logarithmic method based on spectrometry data. Zhur. neorg. khim. 10 no.2:565-566 F '65. (MIRA 18:11)

1. Submitted July 6, 1964.

ACC NR: AP7010726 SOURCE CODE: UR/0189/66/000/003/0061/0066

AUTHOR: Lapitskiy, A. V. (deceased); Pankratova, L. N.

ORG: Department of Inorganic Chemistry, Moscow State University (Kafedra neorganicheskoy khimii Moskovskogo gosudarstvennogo universiteta)

TITLE: Reaction of zirconium with several complexating agents

SOURCE: Moscow. Universitet. Vestnik. Seriya II. Khimiya, no. 3, 1966, 61-66

TOPIC TAGS: zirconium, chemical reaction, spectrophotometric analysis

SUB CODE: 07

ABSTRACT: The direct spectrophotometric study of the reaction of zirconyl diperchlorate with triacetic acid nitrile (NTA), ethylenediaminetetraacetic acid (EDTA), and diethylenetriamine pentaacetic acid (DTPA). The reagents were double distilled from hot water. A weighed portion of $ZrOCl_2 \cdot 8H_2O$ was dissolved in $HClO_4$ and evaporated from the $HClO_4$ twice to almost total dryness. Then zirconyl diperchlorate was dissolved in 0.010 M $HClO_4$.

It was established that the complexating agents studied were governed by Beer's law at the given wavelength and at the given concentrations. Then spectra were recorded of the solutions of zirconium perchlorate, NTA, EDTA, DTTA, and their

Card 1/2 0930 UDC: 546 2977

ACC NR: AP7010726

mixtures with zirconium at a Zr: complexating agent ratio of 1:1 from 206-300 millimicrons. The concentration of the complexating agents and zirconium were $7.5 \cdot 10^{-4}$ mole/liter. For the mixture NTA / Zr, the greatest departure from additivity exists at 210 millimicrons. It was shown that the most complete picture of the reaction is obtained by studying a series and varying the concentration of one of the components and keeping other constant. The absence of an inflection on the curve describing this function shows that Zr reacts with NTA with a stoichiometric coefficient equal to 1. The number n, of NTA molecules arriving at a single central atom, is determined by the method of isomolar series. Similar determinations were made for the following systems: zirconyl diperchlorate-EDTA-water; zirconyl diperchlorate-DTTA-water. Orig. art. has: 5 figures, 6 formulas and 3 tables. /JPRS: 40,351/

Card 2/2

USSR/Microbiology - Microbes Pathogenic for Man and Animals. F
Bacteria. Bacteria of the Intestinal Group.

Abs Jour : Ref Zhur Biol., No 22, 1958, 99386

Author : Perkaleva-Klyuchareva, T.Ye., Pankratova, L.S., Yakovleva, S.S.

Inst : -

Title : Characteristics of Phagotypes of Typhoid Bacilli in the City of Tashkent.

Orig Pub : Med. zh. Uzbekistana, 1957, No 12, 31-33

Abstract : No abstract.

Card 1/1

L 13606-66 EWT(m)/EWP(t)/EWP(z)/EWP(b)/EWA(h) IJP(c) JD/HW

ACC NR: AP6002903 SOURCE CODE: UR/0286/65/000/024/0071/0072

INVENTOR: Semenova, N. V.; Pankratova, L. S.; Agaronik, V. Ya.; Platova, S. N.; Gorshkov, A. I.

ORG: none

TITLE: Nickel-base alloy. Class 40, No. 177073. [announced by the Central Scientific Research Institute of Ferrous Metallurgy im. I. P. Bardina (Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 71-72

TOPIC TAGS: alloy, nickel base alloy, molybdenum containing alloy, chromium containing alloy, aluminum containing alloy, copper containing alloy

ABSTRACT: This Author Certificate introduces a Ni-base alloy containing 20—28% Mo. In order to improve the physical and mechanical properties, 1—10% Cr, 0.5—5% Al, and 0.5—2% Cu are added. [WW]

SUB CODE: 11/ SUBM DATE: 26May64/ ATD PRESS: 4187

Card 1/1 UDC: 669.245.018.5

TEPLITS, V.V.; PANKRATOVA, L.S.

Coccidioidomycosis in Kirghizia. Vest.derm. i ven. 38 no.5:80-83 My '64. (MIRA 18:12)

1. Kafedra kozhnykh bolezney (zav. - dotsent V.V.Teplits) i kafedra mikrobiologii (zav. - dotsent Sh.Yu.Al'dzhambayev) Kirguzskogo meditsinskogo instituta. Submitted June 29, 1963.

PANKRATOVA, L. V.

23356 voprosu proyektirovaniya tkani. tekstil. prom-st', 1949, No. 6, c. 21-22

SO: LETOPIS NO. 31, 1949

BARAYEVA, L.; PANKRATOVA, M.; YEVCHENKOVA, Ye.; SELITSKAYA, S.

Conservation of storage batteries at low temperatures. Avt.transp. 38 no.10:20-21 O '60. (MIRA 13:10)
(Motor vehicles--Batteries)

KULAKOV, V.N.; VARFOLOMEYEV, D.F.; BONDARENKO, M.F.; KOTOVA, V.N.; AKHMETOV, I.G.; KOLYCHEV, V.M.; NOSAL', G.I.; KIVA, V.N.; PANKRATOVA, M.F.; KRUGLOV, E.A.; SHMELEV, A.S.; SHABALIN, I.I.; SHIRMUKHAMETOV, O.A.; ISYANOV, I.Ya.; RATOVSKAYA, A.A.; VAYSBERG, K.M.

Technology of the production of naphthalene from the refining products of eastern oils. Nefteper. i neftekhim. no. 4:30-33 '64. (MIRA 17:5)

1. Nauchno-issledovatel'skiy institut neftekhimicheskikh proizvodstv i ordena Lenina Ufimskiy neftepererabatyvayushchiy zavod.

PANKRATOVA, M.I., inzh.; SELITSKAYA, S.F., kand.tekhn.nauk

Increasing the capacity of an operational lead storage battery. Elektrotekhnika 36 no.2:22-24 F '65.

(MIRA 18:4)

KHEYFETS, M.A.; ZAKORDONETS, V.S.; PANKRATOVA, M.M.; CHEMODUROVA, O.P.

Rapid method of microbiological control of sausage production. Vop. pit. 23 no.2:87-88 Mr-Ap '64. (MIRA 17:10)

1. Iz TSentral'noy laboratorii Leningradskogo myasnogo kombinata.

KHEYFETS, M.A.; ZAKORDONETS, V.S.; Prinimali uchastiye: PANKRATOVA, M.M.; CHEMODUROVA, O.P.; KULAKOVA, I.I.

Inequality of accumulation media for various types of Salmonella. Zhur. mikrobiol., epid. i immun. 40 no.4:107-113 Ap '63. (MIRA 17:5)

1. Iz Leningradskogo opornogo punkta Vsesoyuznogo nauchno-issledovatel'skogo instituta myasnoy promyshlennosti i TSentral'noy laboratorii Leningradskogo myasnogo kombinata.

PANKRATOVA, M.Ya., inzh.

Effect of the construction of the clothing on the expenditure of machine time. Nauch.-issl. trudy TSNIIShveiproma no.12:123-128 '63. (MIRA 17:9)

PANKRATOVA, M.Ye.

Distribution of the BK-8 protein blood substitute containing S^{35}-tagged radioactive methionine in a normal organism. Trudy Kiev. nauch.-issl. inst. perel. krovi i neotlozh. khir. 3:143-145 '61.

(MIRA 17:10)

1. Kiyevskiy institut perelivaniya krovi.

PANKRATOVA, M.Yu.

In vitro incorporation of S^{35}-labeled methionine in proteins of the BK-8 blood substitute [with summary in English]. Ukr.biokhim. zhur. 30 no.2:212-219 '58 (MIRA 11:6)

1. Kiivs'kiy institut perelivaniya krovi.
(BLOOD PLASMA SUBSTITUTES)
(METHIONINE)

PANKRATOVA, N.

Experience of progressive workers as a basis of training. Prof.-tekh. obr. 20 no.9:23-24 S '63. (MIRA 16:11)

1. Starshiy metodist Omskogo oblastnogo uchebno-metodicheskogo kabineta.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012390

PANKRATOVA, N.F.

Vitamin B_{12} therapy of anemia. Klin.med. 33 no.2:28-31 F '55. (MIRA 8:5)

1. Iz Gospital'noy terapevticheskoy kliniki (dir. deystvitel'nyy chlen AMN SSSR prof. A.L.Myasnikov) I Moskovskogo ordena Lenina meditsinskogo instituta.

(ANEMIA, PERNICIOUS, therapy, vitamin B_{12})
(VITAMIN B_{12}, therapeutic use, anemia, pernicious)

PANKRATOVA, N.F.

The effect of vitamin P on capillary permeability and fragility in various diseases. Terap.arkh. 28 no.3:53-59 '56. (MLRA 9:8)

1. Iz gospital'noy terapevticheskoy kliniki (dir. deystvitel'nyy chlen AMN SSSR prof. A.L.Myasnikov) I Moskovskogo ordena Lenina meditsinskogo instituta.

(CAPILLARIES
fragility, eff. of vitamin P in various dis.)
(CAPILLARY PERMEABILITY, eff. of drugs on
vitamin P in various dis.)
(VITAMIN P, eff.
on capillary fragility & permeability in various dis.)

SMOLENSKIY, V.S.; YEROFEYEVA, N.N.; PANKRATOVA, N.F.; ZAPROMETOV, M.N.

Effect of vitamins P and C on the development of experimental atherosclerosis. Vit. res. i ikh isp. no.4:158-170 '59. (MIRA 14:12)

1. Gospital'naya terapevticheskaya klinika 1-go Ordena Lenina medinstituta; Institut biokhimii im. A.N.Bakha AN SSSR, i Institut fiziologii rasteniy im. K.A.Timiryazeva AN SSSR, Moskva.
(VITAMINS--P) (ASCORBIC ACID)
(ARTERIOSCLEROSIS)

PANKRATOVA, N.F.

Therapeutic effect of vitamin P. Vit. res. i ikh isp. no.4:230-239 '59. (MIRA 14:12)

1. Gospital'naya terapevticheskoye klinika 1-go Moskovskogo meditsinskogo instituta im. I.M.Sechenova.
(VITAMIN--P) (CAPILLARIES--PERMEABILITY)
(ASCORBIC ACID)

PANKRATOVA, N. G. Cand Med Sci -- (diss) "Changes in the composition of blood, and importance of determining the quantity of thrombocytes and the thrombocytal formula in differential diagnosis of cancer and suppurative lung diseases." Len, 1957. 18 pp 20 cm. (Min of Health RSFSR. 1st Len Med Inst im Academician I. P. Pavlov. Chair of Hospital Surgery. Chair of Propedeutic Therapy), 200 copies (KL, 14-57, 87)

-31-

2667. PANKRATOVA N.G. *Thrombocytosis and the thrombocytes formula in the diagnosis of lung cancer and suppurative affections (Russian text) VESTN.KHIR. 1957, 78/2 (32-39) Graphs 4 Tables 4

The normal platelet-pattern in adults aged between 45 and 65 yr., showed 4-8% of old forms and about 1.5% of forms of irritation. In patients with lung cancer the percentage of old forms increased to 19.1%. In suppurative diseases of the lungs there was an increase of forms of irritation amounting to 3.8%.

Szyszko - Zabrze (IX, 5, 15, 16)

USSR/General Problems of Pathology. Neoplasms. U

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37377.

Author : Pankratova, N.G.
Inst :
Title : Thrombocyte Count and Thrombocytic Formula in the Differential Diagnosis of Cancer and Suppurative Diseases of the Lungs.

Orig Pub: Vestn. Khirurgii., 1957, 78, No 2, 32-39.

Abstract: No abstract.

Card : 1/1

PANKRATOVA, N.G. (Leningrad, B.Okhta, Kontorskaya, ul., d. 18 kv.8)

Thrombocytosis and the thrombocyte formula in the differential diagnosis of lung cancer and suppurative diseases [with summary in English, p.157] Vest.khir. 78 no.2:32-39 F '57. (MLRA 10:3)

1. Iz gospital'noy khirurgicheskoy kliniki (zaveduyushchiy - professor F.G.Uglov) i kafedry propedevticheskoy terapii (zaveduyushchiy - professor M.D.Tushinskiy) 1-go Leningtadskogo meditsinskogo instituta im. akademika I.P.Pavlova.

(LUNG NEOPLASMS, differ. diag.
suppurative dis., thrombocyte count in (Rus))
(LUNG DISEASES, differ. diag.
suppurative dis. from cancer, thrombocyte count in (Rus))
(BLOOD PLATELETS
count in differ. diag. of lung cancer from suppurative dis. (Rus))

UGLOV, F.G., professor (Leningrad, Kirovskiy pr., d.2, kv.. 26); ZUBTSOVSKIY, V.N.; PANKRATOVA, H.G.

Methods for the early diagnosis of lung cancer [with summary in English, p.151-152] Vest.khir. 77 no.12:27-34 D '56. (MLRA 10:2)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. F.G.Uglov) 1-go Leningradskogo meditsinskogo instituta im. akad. I.P.Pavlova.
(LUNG NEOPLASMS, diag.
early diag.)

L 19750-65
ACCESSION NR: AT5000425

with the 2062.78 Å line. The determination of sodium in technical-grade tellurium using the 3302.32 A line if the palladium content is [illegible] line if this content is higher, is also discussed. The sensitivity [illegible]

ASSOCIATION: none

SUBMITTED: 09 May 64 ENCL: 00 SUB CODE: GC

NO REF SOV: 011 OTHER: 003

Card 2/2

SHOROKHOVA, Ye.V.; KAGANOV, V.M., otvetstvennyy redaktor; PANKRATOVA, N.I., redaktor; ZEMLYAKOVA, T.A., tekhnicheskiy redaktor.

[I.P.Pavlov's materialist theories on the signal systems] Materialisticheskoe uchenie I.P.Pavlova o signal'nykh sistemakh. Moskva, Izd-vo Akademii nauk SSSR, 1955. 229 p. [Microfilm] (MIRA 8:2)
(Pavlov, Ivan Petrovich, 1849-1936) (Nervous system)

PHASE I BOOK EXPLOITATION SOV/4959

Ural'skoye soveshchaniye po spektrosk.

Materialy 2 Ural'skogo soveshchaniya po spektroskopii, Sverdlovsk, 1958 g. (Materials of the Second Urals Conference on Spectroscopy, Held in Sverdlovsk, 1958) Sverdlovsk, Metallurgizdat, 1959. 206 p. Errata slip inserted. 1,000 copies printed.

Sponsoring Agency: Ural'skiy filial Akademii nauk SSSR. Komissiya po spektroskopii and Ural'skiy dom tekhniki VSNTO.

Eds.: Anur Dmitrievich Shayevich and Gennadiy Pavlovich Sherbyakov; Tech. Ed.: N. M. Matlyuk.

PURPOSE: This collection of articles is intended for spectral analysis laboratory workers at ferrous and nonferrous metallurgical plants, and for laboratory personnel of the metal-working industry, geological and prospecting organizations, and similar scientific research laboratories.

COVERAGE: The collection contains papers read at the Second Urals Conference on the spectral analysis of ferrous and nonferrous metals and alloys, slags, ores, agglomerates, refractories and other materials used in industry. The material of the conference includes articles on the analysis of steels (including the determination of gases), ferroalloys, nonferrous and light metals and alloys, pure noble metals, etc. The present volume is intended to disseminate the latest experience in working with spectral laboratories, and to report on the results of scientific research. The author thanks N. I. Outkina and Yu. M. Burevlev. Almost all of the articles are accompanied by references.

PANKRATOVA, N. I., DUT'KO, A. D. (KRASNOYARSK)

"Spectral Analysis of Platium, Paddadium, and Ruthenium of Increased Purity."

paper submitted to the Fifth Conference on the Analysis of Nobel Metals, Novosibirsk, 20-23 September 1960

So: Zhurnal analiticheskoy khimii, Vol XVI, No 1, 1961, page 119

Pankratova, N. I.

18(6) PHASE I BOOK EXPLOITATION SOV/3199

Akademiya nauk SSSR. Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova

Analiz blagorodnykh metallov (Analysis of Noble Metals) Moscow, 1959. 193 p. Errata slip inserted. 2,700 copies printed.

Resp. Ed.: N. K. Pshenitsyn, USSR Academy of Sciences, Corresponding Member; and O. Ye. Zvyagintsev, Doctor of Chemical Sciences; Eds. of Publishing Houses: T. G. Levi, and D. N. Trifonov; Tech. Ed.: I. N. Guseva.

PURPOSE: This collection of articles is for scientists engaged in the study and analysis of the noble metals.

COVERAGE: This is a collection of articles on the analysis of the noble metals. It includes studies carried out by the Institute of General and Inorganic Chemistry im. N. S. Kurnakov (AN SSSR), as well as reports presented by scientific research organizations and by industrial enterprises at the Third and Fourth Conference on Noble Metals held in 1954 and 1957, respectively. The studies and reports describe new organic reagents for gravimetric determination of platinum metals, and physicochemical methods of analysis (spectrophotometric, polarographic and potentiometric). Special attention is given to spectral analysis for the determination of admixtures in alloys of platinum metals, silver, and gold, as well as in refined noble metals. The collection also includes analytical methods, tables and charts for materials containing metals of the platinum group, as well as a review of the literature on the analysis of platinum metals published in the last five years. No personalities are mentioned. References follow each chapter.

DANILOV, Yu.S.; PANKRATOVA, N.L.

Pre-Cambrian zircon-rutile placers of the Kokchetav anticlinorium, northern Kazakhstan. Izv. AN Kazakh. SSR. Ser. geol. 22 no.1:21-34 Ja-F '65. (MIRA 18:6)

1. Kazakhskiy institut mineral'nogo syr'ya, g. Alma-Ata.

USSR / Forestry. Dendrology. K-2

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24871.

Author : Akhromeiko, A. I.; Pankratova, ~~N. M.~~; Napalkov, N. V.; Ovcharova, G. R.; Krainev, V. P.

Inst : Not given.

Title : Methods of Raising the Yield of the Oak.

Orig Pub: Sb. rabot po lesn. kh-vu. Vses. n.-i. in-t lesovodstva i mekhaniz. lesn. kh-va, 1956, vyp. 32, 200-216.

Abstract: With a view to raising the fruitification of oak in TatLOS, ShipLOS and BashLOS, thinning out of plantings to a thickness of 0.6-0.4 was carried out. It was established that thinning out of the

Card 1/2

Card 2/2

I.

USSR/Physiology of Plants - Water Regime.

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67828

Author : Krasulin, N.P., Pankratova, N.M.

Inst : All-Union Sientific Research Institute of Forest Economy.

Title : Transpiration as an Index of Water Absorption by the Root Systems of Tree Species.

Orig Pub : Dokl. AN SSSR, 1957, 113, No 4, 927-929

Abstract : During the summer of 1951 the transpiration intensity of 23-year old trees of an oak-ash plantation in Sal'skaya Dacha (Rostovskaya Oblast') was determined using the weighing method of L.A. Ivanov. Transpiration dropped with the onset of the dry season; the process was more marked in the ash than in the oak, and it was also more marked in the areas of more severe natural conditions. Rain caused a sharp rise in transpiration in the ash, followed by a

Card 1/2

K-3

USSR / Forestry. Forest Economy

Abs Jour: Ref Zhur-Biol., No 13, 1958, 58393

Author : Akhromeyko, A. I. , Gur'yanova, O. Z., Pankratova, N. M.

Inst : All-Union Scientific-Research Institute of Forestry and Mechanization of the Forest Economy

Title : The Influence of Various Doses of 2,4-D, 2, 4, 5-T, of 2,4-D Butyl Ether and of Sodium Pentachlorphenolate (PCP) on Gray Alder and of Gray Willow Shrubs.

Orig Pub: Byul. Nauchno-tekhn. inform. Vses n.-i. in-t lesovodstva i mekhaniz. lesn. kh-va, 1957, No 4, 14-16

Abstract: It was established in experiments conducted in

Card 1/2

CA

11D

Processes of nectar formation. N. M. Pankratova. *Zhur. Obshchei Biol.* (J. Gen. Biol.) 11, 292-305(1950).—Blossoms of clover, four o'clock, epilobium and other plants form nectar from compds. stored in tissues, and also from sugar in the plant fluids. Blossom tissues contain sucrose, glucose, and sometimes mannitol. Nectar formation involves differences in sugar-retaining capacity in different parts of the protoplasm. Julian F. Smith

USSR / Forestry. Forest Economy K-3

Abs Jour: Ref Zhur-Biol., No 13, 1958, 58394

Author : Akhromeyko, A.I., Gar'yanova, O.Z., Pankratova, N.M.

Inst : All-Union Scientific-Research Institute of Forestry and Mechanization of the Forest Economy

Title : The Influence of Various Doses of 2,4-D and of 2,4-D Butyl-Ether on Aspen and Birch

Orig Pub: Byul. nauchno-tekhn. inform. Vses. n.i. in-t lesovodstva i mekhaniz. lesn. kh-va, 1957, No 4,17-21

Abstract: The physiology department of the All Union Scientific Research Institute of Forest Mechanization conducted experiments in 1956 on the treatment of underbrush of aspen, birch, willow and other genera with preparations of 2,4-D and by 2,4-D butyl

Card 1/2

PANKRATOVA, N.M.

Low temperatures which are harmful for oak blossoms. Bot.zhur.41 no.2:263-266 F '56. (MIRA 9:7)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut lesnogo khozyaystva. (VNIILKh)
(Oak) (Plants--Effect of temperature on)

PANKRATOVA N.M.

KRASULIN, N.P.; PANKRATOVA, N.M.

Transpiration as an index of water absorption by the root system of forest tree species. Dokl. AN SSSR 113 no.4:927-929 Ap '57. (MLRA 10:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lesnogo khozyaystva. Predstavleno akademikom A.L. Kursanovym.

(Roots (Botany)) (Trees)

PANKRATOVA, N. M.

AUTHOR: KRASULIN, N.P., PANKRATOVA, N.M. 20-4-57/61

TITLE: Transpiration as a Coefficient of the Absorption of Water by the Root-System of Wood-Plants. (Transpiratsiya kak pokazatel' pogloshcheniya vody kornevoy sistemoy drevesnykh porod, Russian)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 4, pp 927 - 929 (U.S.S.R.)

ABSTRACT: In 1951 the authors had measured the transpiration for 23 year old cak-ash-stands in the Sal-forest (region of Rostov at the river Don) in the zone of dry steppes. On a dark, chestnut-colored slightly saline ground the oak was suppressed, whereas the ash was in good condition and foliage. The measuring method of I.A.IVANOV was applied. The summer 1951 was characterized by lack of rain from the beginning of June, it only set in on the 1st of August abundantly (35 mm in 3 days). In the beginning of June transpiration of the ash was much higher than that of the oak, this phenomenon being independent of the conditions of growth. From this moment on transpiration began to decline. Under good conditions it fell less during the drought than under worse conditions, in which case it fell especially in the case of the ash. Its continuously withered leaves gave clear evidence of the fact that water household is highly made use of. The intense water consumption by the oak and especially by the ash in the first decade of June gave evidence of the presence of a considerable water

Card 1/3

Transpiration as a Coefficient of the [redacted]
Absorption of Water by the Root-System of Wood-Plants.
20-4-57/61

supply in the ground. In the background of the precipitously sinking transpiration of the ash the rather stable course of this process in the case of the oak has to be brought into relation with unequal conditions of water supply of both kinds of trees. Obviously the oak was better supplied with water in the ground than the ash and was independent of the latter (more favourable samples surface I). Under worse sonditions, however, (sample surface II) the transpiration fell equally precipitously in the case of both kinds of trees. Thus, the water supply in both cases ought to lie very close to each other or even result from the same source. Rain soaked the ground to a depth of 16 - 18 cm. This led to an intense increase of transpiration, especially under worse conditions of growth. This increase, however, was relieved by an equally precipitous fall already in the second half of August. Oak had reacted to the soaked ground in a peculiar way: even at good conditions of growth the transpiration had fallen. Under worse conditions, however, it increased abruptly in the same way as in the case of the ash, but this increase then slackened equally fast. The results given in illustration 1 and schedule 1 show that the ash according to the humidity of the ground is capable of an extreme restriction of its water consumption as well as of a wasteful exhaustion. Under the conditions of a worse ground (surface II) this makes the ash a dangerous rival for the oak

Card 2/3

Transpiration as a Coefficient of the [redacted]
Absorption of Water by the Root-System of Wood-Plants.

20-4-57/61

as regards water. The appearance of the suppressed oaks, often with a dry top, among straightly trunked, well foliated ashes clearly confirms this conclusion. This rivalry could not be observed under better conditions of growth (surface I) It may be said that data on the transpiration of the types of trees in connection with a certain combination of the factors of wheather are capable of giving objective exponents of the activity of the root system and and disclosing their functional particularities as water absorption organs. This offers the possibility of explaining the problem of the structure of steppe forest, namely of the interrelation of the types of trees growing in community in the process of water procuring. (1 illustration, 1 schedule, 5 citations from Slavic publications)

ASSOCIATION: Allunion Scientific Research Institute for Forestry.
PRESENTED BY: A.L.KURSANOV, Member of the Academy
SUBMITTED: 12.11.1956
AVAILABLE: Library of Congress

Card 3/3

PANKRATOVA, N. S.

14

PHASE I BOOK EXPLOITATION SOV/5743

Akademiya nauk SSSR. Mezhduvedomstvennyy komitet po provedeniyu Mezhdunarodnogo geofizicheskogo goda. V. razdel programmy MGG: Ionosfera.

Issledovaniya ionosfery; sbornik statey (Ionospheric Researches; Collected Articles. No. 3) Moscow, Izd-vo AN USSR, 1960. 100 p. 2,000 copies printed.

Resp. Ed.: N. V. Mednikov, Candidate of Physics and Mathematics; Ed.: L. A. Trofimova; Tech. Ed.: T. V. Polyakova.

PURPOSE : This IGY publication is intended for geophysicists, astrophysicists, and other scientists concerned with the ionosphere and radio atmospherics.

COVERAGE: The collection of articles contains the results of investigations on the ionosphere and radio atmospherics, based chiefly on IGY observational data from USSR stations. The articles may be grouped into the three following categories:

Card 1/5

1) studies of the morphology and physics of both quiet and perturbed ionospheres; 2) methodology of evaluating absorption and drifts in the ionosphere; and 3) questions on the use of ionospheric observations for practical purposes. No personalities are mentioned. English abstracts and references follow each article.

TABLE OF CONTENTS: