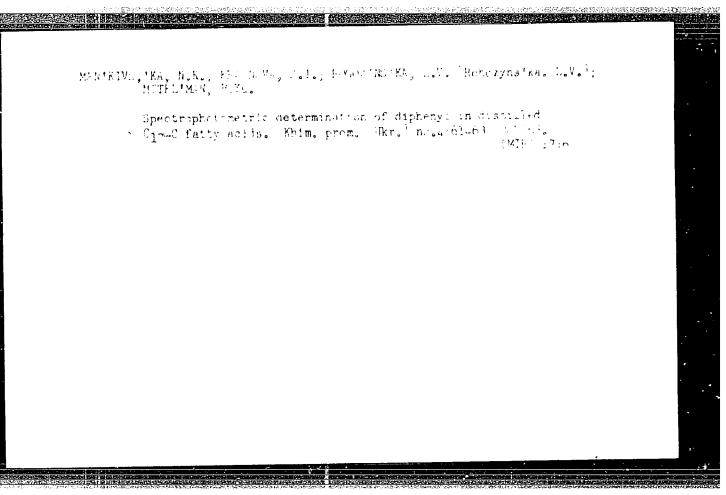
MANKINA, N.S.; KHOROVER, N.N.

Intestinal obstruction in incomplete reverse development of the vitelline duct. Vest. khir. 93 no.8:84-87 Ag '64. (MIRA 18:7)

1. Iz kafedry khirurgii detskogo vozrasta (zav. - prof. G.A.Bairov) Leningradskogo pediatricheskogo meditsinskogo instituta (rektor - dotsent Ye.P.Semenova).



KAIRIUKSHTIS, I.A. [Kairiukstis, I.]; RUSIYESHVILI, N.I.; MAHIKO, G.D.;
OL'SHANETSKIY, G.M.; ORISHCHENKO, A.; ZAKHAROV, A.V.; KORUNCHIKOV, P.G.;
LAPSHIN, I.I.

In the Soviet Union. Veterinariia 38 no.6:91-96 Je '61.

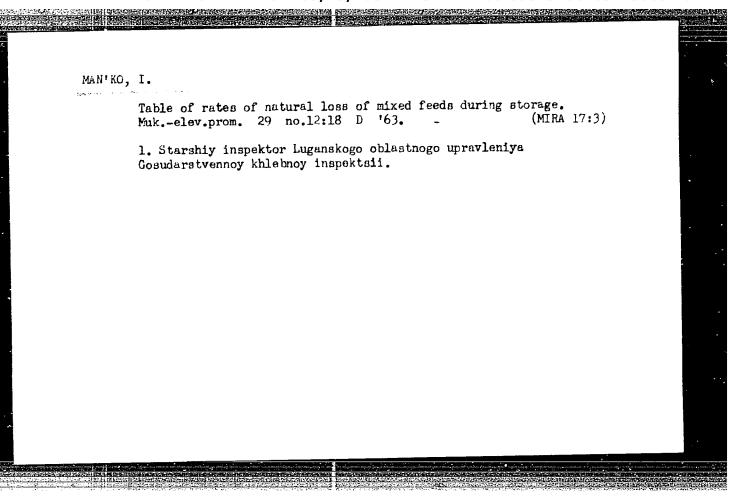
(MIRA 16:6)

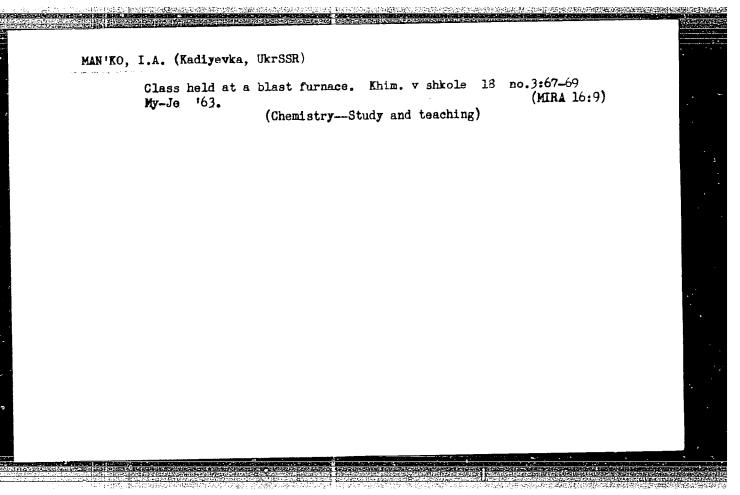
(Veterinary medicine)

MAN'KO, G.S.; MUKHIN, M.A., spets. red.; SEMENOVA, N.L., red.; KISINA, Ye.I., tekhn. red.

[Financial work in dairy industry enterprises] Finansovaia rabota na predpriiatiiakh molochmoi promyshlennosti. Moskva, Pishchepromizdat, 1957. 195 p. (MIRA 14:12)

(Dairy industry—Finance)





MAN'KO, I. V.

"Chemical Investigation of Matricaria chamomilla and Cyhoglossum officinale of the Borage Family." Cand Pharm Sci, Tartu State U, Khar'kov-Tartu, 1954. (RZhBiolKhim, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

73-3-14/24

AUTHOR: Man'ko, I. V. and Borisyuk, Yu. G.

TITLE: Chemical Investigation of Cynoglossum L. of the Borage Family. (Khimicheskoye Issledovaniye Chernokornya Camayatus Burachnikoyukh)

Semeystva Burachnikovykh)

PERIODICAL: Ukrainskiy Khimicheskiy Zhurnal, 1957, Vol. 23, No.3, pp. 362-366 (USSR).

ABSTRACT: A new alkaloid, cynoglossophine, was separated from cynoglossum officinale L. Its empirical formula was established to be C20H35NO8. It is an unsaturated compound giving a crystalline picrate (with a melting point of 105°C). The cynoglossophine is an ester which is obtained during the saponification of cis-2-methyl-2-butenoic acid and acetone. Dry surface parts of the plant are used for obtaining this alkaloid. They are treated with ammonia and extracted with dichloroethane. This extract was shaken up with 10% H2SO4. The latter extract is purified by shaking it up with ether. The acidic liquid was made alkaline with ammonia and the alkaloids extracted first with ether and then with chloroform. These extracts were dried with anhydrous

chloroform. These extracts were dried with anhydrous Card 1/3 Na-sulphate. The alkaloid residues were dried in a

 73-3-14/24 Chemical Investigation of Cynoglossum L. of the Borage Family.

vacuum-dessicator over calcium chloride. Results of investigations showed that the largest quantity of alkaloids (1.6 - 1.7%) is contained in the surface parts of the plant, during the second year of cultivation. Alkaloid fractions were prepared at various pH values. The first acid fraction (pH 3) gave no alkaloids which could give rise to crystalline picrates. The second fraction (pH 5) gave only traces of these alkaloids. The third (pH 4.2) gave the highest yield of picrates. The 4th (pH 6) and 5th fraction (pH 8.2) contained apart from the crystalline residue also black, resinous substances. The molecular weight of the picrate (M) was found by titrating the picrate with a O.1N solution of barium hydrate with phenolphthalein. M = 646. The molecular weight of the alkaloid  $\rm C_{20}H_{35}NC_8$  was therefore 417. The dried alkaloid cynoglossophine is a hard, colourless, glassy mass. It is completely soluble in dilute acids, alcohol, chloroform and acetone and sparingly soluble in benzene, ethyl ether, petroleum ether and water. Tests showed that the alkaloid does not contain free phenol groups. The alkaloid was saponified with a 2N-NaOH solution to determine the ester structure

Card 2/3

73-3-14/24

Chemical Investigation of Cynoglossum L. of the Borage Family.

of cynoglossophine. The solution was heated in a refluc condenser for 2 hours. The presence of acetone in the distilled liquid was verified by preparing the oxime (m.p. 60°C) and of the semicarbazone (m.p. 191°C). According to Professor Men'shikov's (Ref. 7) nomenclature for the decomposition products of alkaloids the prepared aminoalcohol was named cynoglossophidine. The cynoglossophidine chlorohydrate forms small colourless crystals which are very hygroscopic. It forms a crystalline picrate (m.p. 99 - 99.5°C.). There are 8 references, 6 of which are Slavic.

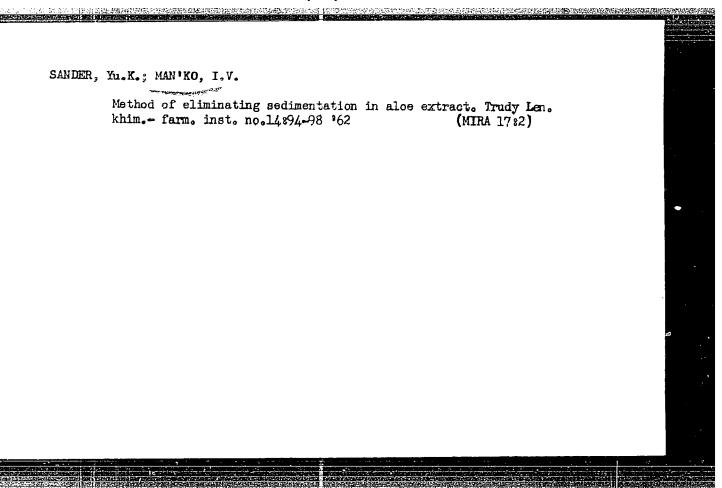
SUBMITTED: December, 25, 1956. AVAILABLE: Library of Congress.

Card 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032130001-0"

PUKHAL'SKAYA, A.Ch.; PETROVA, M.F.; MAN'KO, I.V. Studies on the effect of 6 alkaloids related to 1-methylpyrrolizidine on the growth of hepatoma and of certain other transplanted tumors in animals. Biul.eksp.biol.i med. 47 no.8:91-93 Ag '59.

(MIRA 12:11) 1. Iz laboratorii eksperimental'noy khimioterapii (zav. - chlenkorrespondent AMN SSSR L.F. Larionov) i laboratorii khimii prirodnykh veshchestv (zav. - prof. G.P. Men'shikov) Instituta eksperimental noy patologii i terapii raka (dir. - chlen-korrespondent AMN SSSR N.N. Blokhin) AMN SSSR I iz kafedry tekhnologii lekarstv i galenovykh preparatov (zav. - Yu.K. Sander) Leningradskogo khimiko-farmatsevticheskogo instituta. Predstavlena deystvitel nym chlenom AMN SSSR V.V. Zakusovym. (HEPATOMA exper.) (NEOPLASMS exper.) (ALKALOIDS pharmacol.) (PYRROLES pharmacol.)



MAN'KO. Leonid Stepenovich; GORDIYENKO, N.S., kand. sel'skokhozyaystvennykh nauk, red.; DOLGOPYATOV, Yu.A., red.; KOZLOV, S.V., tekhn. red.

[What corn gave us] Chto dala nam kukuruza. Pod red. N.S. Gordienko. Alma-Ata, Kazakhskoe gos. izd-vo, 1956. 14 p. (MIRA 11:7)

1. Predsedatel kolkhoza imeni Michurina Alma-Atinskogo rayona Alma-Atinskoy oblasti (for Man'ko).

(Kazakhstan--Corn (Maize))

#### "APPROVED FOR RELEASE: 03/13/2001 C

CIA-RDP86-00513R001032130001-0

MAN'KO, M. A.

USSR/Geography Geology Sep/Oct 1947

"Boundary of the Tundra Zone in the Lower Regions of the Mezen River," M. A. Man'ko, 9 pp

"Izv VseSoyuz Geog Obshch" Vol LXXIX, No 5

Author makes brief reference to the material already available on the regions around the city of Mezen. He divides this region into four major sectors and describes each one separately: 1) the Mezen region from the latitude of the city of Mezen to the lower reaches of the Mezen River, 2) the Pyi region, 3) the Semzhi, and 4) the Mgla-Nes' region.

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34125

MAN'KO, M. A.

USER/ Biology - Botany

Card 1/1 Pub. 45 - 5/17

Authors Sian'ko, M. A.

Title (About the effect of lake ground-waters on the nature of wooded steppes

beyond the Urals

Periodical : Izv. AN SSSK. Ser. geog. 3, 50-57, May - Jun 1954

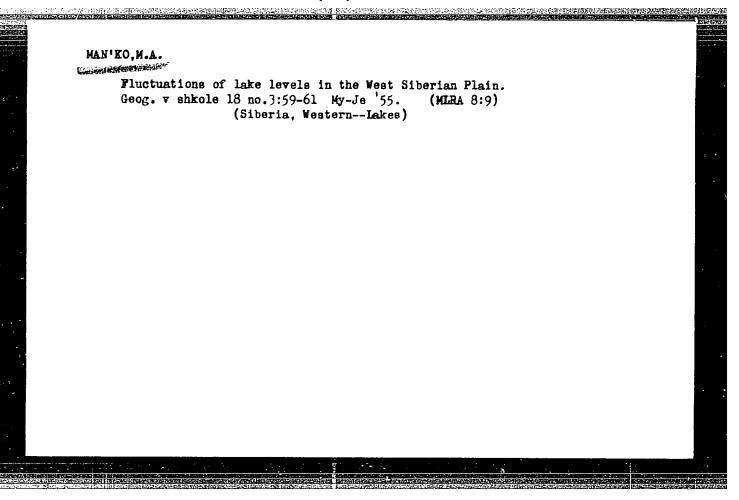
Abstract : A description is given of the rising and falling of the water level in

lakes in the trans-Ural region, in periods averaging 35 years, which is accompanied by the level of the ground waters. During the high-water periods many trees are killed with a tendency towards reforestation during the time of receding waters. It is found that trees standing alone are more likely to be killed by the water and that resistence also depends on their species. Theories are presented to explain the oscillation

in water level. Twelve USSR references (1900-1951).

Institution: State Padagogical Institute of Rostov on the Don

Submitted: ....



MAN'KO, M. A. and A. V. AGUPOV

Reported on the subsurface supply of lakes.

report presented as the 3rd A. . -Onion Hydrological Congress 2-17 Oct 1957, Leniugrad

Try Ak New LEST, ser geograf. A ppi-1. 36.

of the control of the

AUTHOR: M.A. Man'ko

10-58-3-8/29

Does the Permafrost of Soil in the Mezenskiy Rayon Recede? (Degradiruyet li&vechnaya merzlota pochv v rayone g. Mezeni?)

Izvestiya Akademii Nauk SSSR-Seriya Geograficheskaya, 1958, PERIODICAL:

Nr 3, pp 60-64 (USSR)

HISTORIE (FINE PROPERTIES PROPERT

TITLE:

ABSTRACT: The Mezenskiy Rayon is assumed to be a classic example of

permairost movement northwards, with a speed of 0.5 km per year due to a temperature increase in Northern Europe. This opinion was expressed by Shrenk (1855), N.G. Datskiy (1937) B.N. Gorodkov (1932) and Sumgin (1932). The author, who in 1940

studied the permafrost problem in the Mezenskiy Rayon, has come to the conclusion that the hypothesis of temperature increase in Northern Europe is wrong. He illustrates his assertion by presenting a graph showing the average annual temperature fluctuations from 1814 to 1939. The main reason for the reduction of permafrost is the exploitation of peat-bogs,

which are the main preserves of permafrost, according to V.G. Goryachkin (1928), S.N. Tyremnov (1928), V.B. Shostako-

vich, B.N. Gorodkov (1932) and others. There is 1 graph,

Card 1/2 and 17 Soviet references.

#### CIA-RDP86-00513R001032130001-0 "APPROVED FOR RELEASE: 03/13/2001

10-58-3-8/29

Does the Permafrost of Soil in the Mezenskiy Rayon Recede?

ADSOCIATION: Rostovskiy-na-Donu gos. universitet (State University in Rostov-

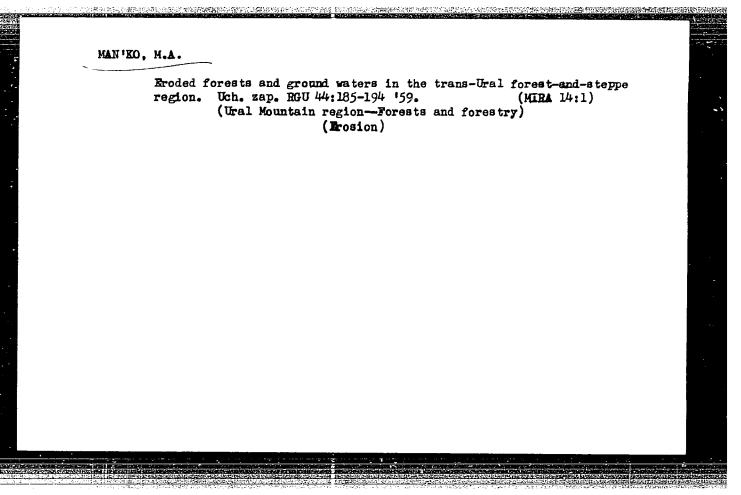
on-Don)

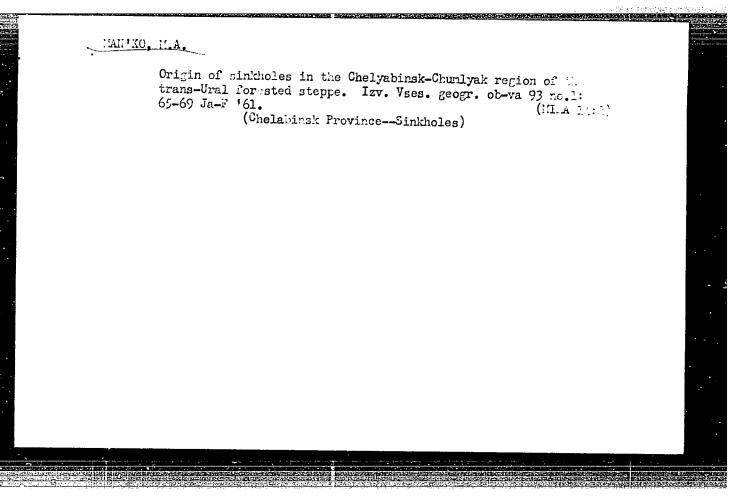
AVAILABLE:

Library of Congress

Card 2/2

1. Permafrost - USSR





## ACC NR. AP7001323

SOURCE CODE: UR/0057/66/036/012/2213/2215

AUTHOR: Yeliseyev, P. G.; Ismailov, I.; Krasil'nikov, A. I.; Man'ko, M. A.; Strakhov, V. P.

ORG: Physics Institute im. P. N. Lebedev, AN SSSR, Moscow (Fizicheskiy institut AN SSSR)

TITLE: Temperature dependence of the threshold current of injection-type lasers and their continuous emission under liquid nitrogen cooling

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 12, 1966, 2213-2215

TOPIC TAGS: laser, injection laser, laser threshold current, laser emission point, laser emission threshold, laser diode

ABSTRACT: The temperature dependence of the threshold current in the 77—200K range was investigated on diodes prepared by vapor-phase and liquid-state epitaxy methods. The vapor-phase specimens were prepared in the conventional way; the epitaxial diodes were prepared by the liquid-phase epitaxy method (as described by Nelson in RCA were prepared by the liquid-phase epitaxy method (as described by Nelson in RCA Review, 24, 1963, 603) from a solution of gallim arsenide in gallium at 920C. The substrates were gallium arsenide p-type plates doped with zinc at a concentration of substrates were gallium arsenide p-type plates doped with zinc at a concentration of about 7 x 10<sup>19</sup> cm<sup>-3</sup>. Graphs of threshold current vs. temperature for two epitaxial diodes show a linear dependence (gradients of 1.6 and 1.3% per degree). For vapor-diodes show a linear dependence (gradients of 1.6 and 1.3% per degree). For vapor-diodes showly. The gradient is 3.9% at 77K; at higher temperatures the gradient declines slowly. The threshold current densities at 77K for vapor phase diodes lie Card 1/2

# ACC NR: AP7001323

within the 800-2000 amp/cm² range, and for epitaxial specimens, between 1600-8000 amp/cm². A formula is given for the conditions of generation as a function of threshold current, voltage on the junction, thermal resistance of the diode, and diode current density should not exceed 5700-5800 amp/cm² for epitaxial diodes and 1900 amp/cm² for vapor-phase diodes. Continuous emission was obtained at 1200-1600 amp/cm² in a number of diodes, but in some the threshold was not reached because of overheating. This result suggests that the actual thermal resistance is 3 to 4 times higher than the calculated value. The difference is attributed to insufficient conformulas.

SUB CODE: 20/ SUBM DATE: 18Jul66/ ORIG REF: 002/ OTH REF: 012/ ATD PRESS: 5110

Card 2/2

ACC NR: AP7001324

SOURCE CODE: UR/0057/66/036/012/2215/2216

AUTHOR: - Yeliseyev, P. G.; Man'ko, M. A.

ORG: Physics Institute im. P. N. Lebedev, AN SSSR, Moscow (Fizicheskiy institut AN SSSR)

TITLE: Using a semiconductor mirror for the Q-switching of a laser

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 12, 1966, 2215-2216

TOPIC TAGS: laser, ruby laser, laser Q switching, laser Q modulation, laser mirror, laser semiconductor mirror

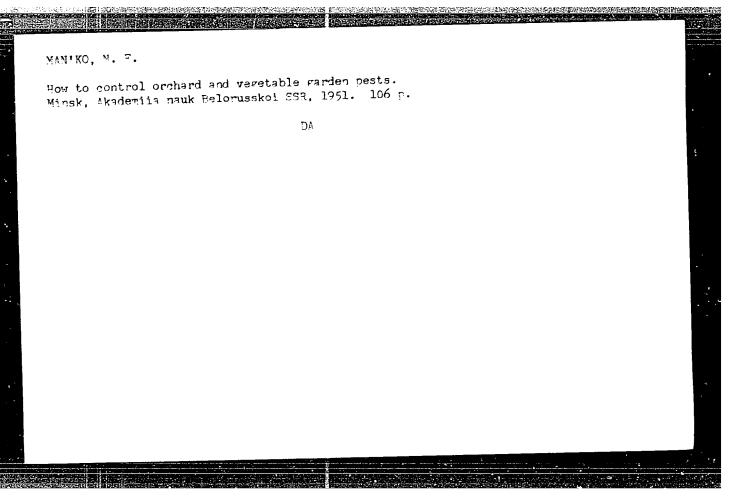
ABSTRACT: The article reports on experiments with germanium and indium antimonide mirrors in a ruby laser to enhance its Q-switching efficiency. The laser was 120 mm long and 9 mm in diameter; its resonator was formed by one end of the rod and a mirror made from a semiconductor material. A telescope was used between the rod end and the mirror to widen the beam incident on the mirror and thereby reduce beam density and its destructive effect on the mirror material. The effect of the arrangement was to change the output from the usual spiking regime to that of giant pulses. Lasers Q-switched by a semiconductor mirror displayed a considerably higher output per unit pumping energy and a much steeper output pulse in comparison with lasers using interference, metal, or polished-end mirrors under free emission near the self-excitation threshold or under conditions of Q-switching by a saturation filter

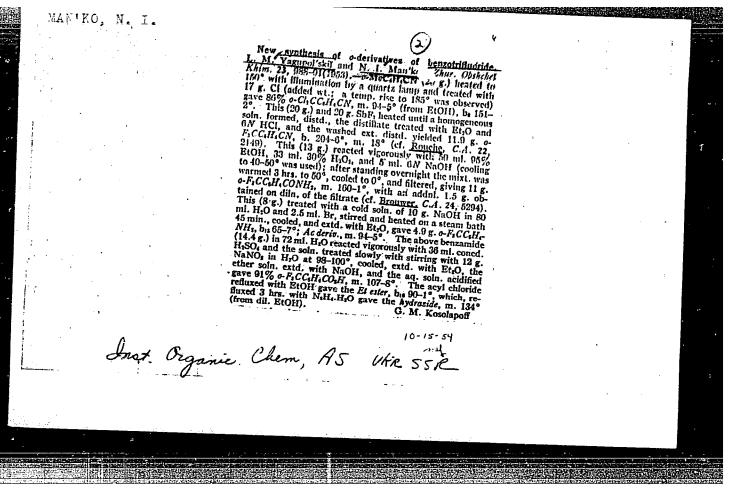
Card - 1/2

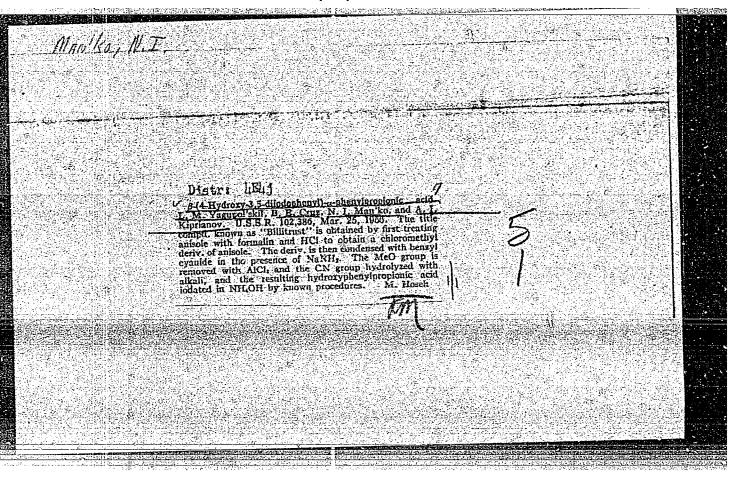
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MAN'KO, N., inzhener-podpolkovnik

Radioactivity and the characteristics of radioactive radiation. Voen.vest. 43 no.7:112-115 Jl 163. (MicA 16:11)







YAGUPOL'SKIY, L.M.; GRUZ, B.Ye.; MAN'KO, N.I.; KIPRIANOV, A.I.

Synthesis of bilitrast—β-(4-hydroxy-3,5-diiodophenyl)—c-phenylpropionic acid. Ukr. khim. zhur.226 no.2:233-236 '60.

(MIRA 13:9)

1. Institut organicheskoy khimii AN USSR. (Phloretic acid)

MAN'KO, N. M.

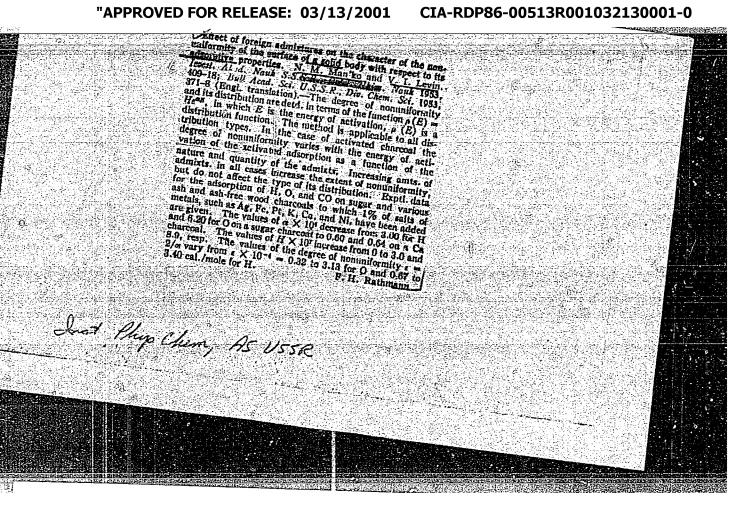
"Effect of Mineral Impurities on the Character of the Heterogeniety of the Surface of Active Carbon According to Adsorption Properties."

Sub 18 Oct 51, Inst of Physical Chemistry, Acad Sci USSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

50: Sum. No. 480, 9 May 55

sorption of  $O_2$  and  $H_2$  is not affected by additives in the same manner. The results were correlated 02 and H2 measured. The data obtained show that ENO, thus lowering the ash content from 3% to 0.4%. One % of K, Ca, Fe, Ni, Ag, or Pt was then catalyst promoters, modifiers, and poisons. disclosed must have a bearing on the action of on the surface of carbon increases the deg of its the conclusion reached that presence of additives esses taking place on inhomogenous surfaces, and on the basis of S. Z. Roginskiy's theory of procothers strongly increase adsorption; that the adto adsorption, that some additives reduce while the resulting carbons strongly differ with respect Activated birch charcoal was treated with NaF in teining Different Inorganic Admixtures," N. P. Keyer, N. M. Man'ko, Inst of Phys Chem, Acad Sci sorption of Oxygen and Hydrogen on Carbons Conformation of an active surface which have been inhomogeneity. The relationships pertaining to the USSR/Chemistry - Activated Carbon introduced into the carbon and the adsorption of "Dok Ak Nauk SSSR" Vol LXXXIII, No 5, pp 713-716 "Investigation of the Kinetics of Activated Ad-USSR/Chemistry - Activated Carbon MAN'KO, N. M. (Contd) H 11 Apr 52 Apr 52 21819



	Doblady constatth unbanyth. [t.4] Ediniya radioelementor i radiateionnyth elements and madeaton Treaterstone v. 4.; Chemistry of Madeaton Treaterstone Nescow, Atomixety of Madeaton Treaterstone Nescow, Atomixety of Made	Mt. (fittle page): A. P. Vinogradov, Academician; Ed.: V. I. Labamovy freh. Ed.: FUNDOR: This collection of articles is intended for eclerities and engineers	CONTENSE;  CONTENSE; The book contains 25 separate studies concerning warlow appears the chastest of certain reducetive almosts and the processes of radiation furnished marker. These reports discuss presentedly sebacks of reducing warden, pulporing a separate the charactery of services of reducing warden, pulporing, asserted in the charactery of services and	tag of redirective states, the rediopties related to the sorption and bury- organic compound, the sockanism of polymer chain grafting, and the effect present values, made and strabbits of advances soluting, and the effect present values, mest of the reported are secondarily by R. Fruchter edited the tributors to individual investigations are secondarily of strated the tes fable of Contents.	Make or cornery,  Tangrador, A. P. Secontine and the Barth's Crust (The Goothers are	Reviseable, V. B., B. B. Forterly, and A. S. Solovino. Some Special first feedless in the Reprocessing or Irradiated Sea-Producing Rosers Special first feedle Rise-Producing Rosers of the USE (Experis Rosers Flant of the USE (Expert No. 2122) this investigation; S. M. Indiany, E. B. Investigation; S. M. Indiany, E. P. Lundskin, No. 9. Secret in E. B. Twestore, and V. V. Chinkur, E. P. Lundskin, No. 9. Granten	Moreaby, v. M., and M. P. Korn, "elays. Separation of transius and Pluto- and Garbon Detrachloride (Proof So. 2216) a Markur of Educyl Fiber Wormaby, v. M. Distriction	49 ************************************	2	Compounds of the control of the cont	Chertypay, I. v. A. Galorya, and A. E. Halothia. Complex Carbonates, Composition of floring fleports for 2136 F. Halothia. Complex Carbonates (27 M. B. Baltabiera is sentioned for his part in this study.) 186		
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L 14423-63 EWT(m)/BDS AFFTC/ASD ACCESSION NR: AP3003972 8/0089/63/015/001/0023/0030 AUDHOR: Brezhneva, N. Ye.; Levin, V. I.; Korpusov, G. V.; Bogscheva, Ye. K.; THILE: Separation of Er93, Mb95, and Ru 106 from a mixture of fission products by extraction with tributyl phosphate SOURCE: Atomaya energiya, v. 15, no. 1, 1963, 23-50 TOPIC TAGS: Zr 95, Nb 95, Ru 106, Clasica product; fission-product extraction, extracting agent, tributyl phosphate extracting agent, reextraction, solvent extraction, complexing agent, hydrogen peroxide, oxalic acid, sodium nitrite, nitric acid concentration, zirconium complex, nichium complex, ruthenium complex distribution coefficient, Ru 106 suifide coprecipitation ABSTRACT: Methods were studied for obtaining redicchemically pure Zr95, No.95, and Rules by a general procedure for separation of fission products, described previously (N. Ye. Brezhneve, V. I. Levin, G. V. Korpusov i dr. V kn. "Trudy\* Vtoroy mezhdungrodnoy konferentsii po mirnomu ispol'zovaniyu atomnoy energii."

Dokl. sov. uchenyein. T. 4. M., Atomizdat, 1959, str. 57.). The physicochemical mechanism of solvent extraction with tributyl phosphate (TBP) was investigated Card 1/43

L 14423-63 ACCESSION MR: AP3003972

under static and dynamic conditions. Pure Zr95, Rb95, Rz106, Y91, Eu 152 and Eu 154 radiosctive isotopes were used to prepare synthetic solutions. In the static method, extraction was effected by shaking in separatory funnels a synthetic nitric acid solution of each of the three pure isotopes, with pure TBP or with a 40% solution of TBP in kerosene. It was shown that the distribution coefficient (Kp) between the organic (TBP) phase and aqueous nitric soid 1) increases continuously during extraction of No or Zr when the equilibrium concentration of BMO, is increased, but pesses through a sharp maximum in the case of Ru; 2) is much lower on extraction of Nb or Zr with dilute TBP than with pure TBP; 3) increases as the square of TBP concentration in the organic phase during extraction of No with dilute TBP; 4) is much higher in reextraction than in extraction of Nb or Zr from TBP; and 5) increases on consecutive reextractions of Nb, Zr, or Ru. These and earlier data indicate the formation of extractable Zr or Nb complexes of the Zr(NO,), "NHNO," ZHP type and of an extractable Ru complex, Ru NO(NO,). Formation of the latter requires the presence of certain nitrogen oxides or nitrous acid, together with HNO, or NO, ions. The increase in Kp on repeated reextractions of Ru is attributed to the conversion of Runo( $NO_3$ ), in the organic phase to more stable complexes with TBP. Similarly, several stable Zr or Nb complexes are present in both phases. The fact that the establishment of equilibrium between complexes is slow explains

Card 2/43

L 14423-63

ACCESSION NR: AP3003972

the difficulty of Zr or Mb reextraction. However, this difficulty can be overcome by the addition of hydrogen peroxide or comic acid to aqueous HNO, as complexing agents for Nb and Zr, respectively. The data show that in the presence of the complexing agent  $K_{\rm D}$  for Zr and Nb on reextraction is greatly diminished. Thus, it was possible to achieve 74-906 reextraction of Mb or Zr, provided [HNO,] was no higher than 1) N for Nb or 5 N for Zr. Separation of No and Zr by extraction under dynamic conditions was carried out in a glass semi-countercurrent 20-stage extractor. Experimental extraction of a mixed Zr95 and Nb95 synthetic solution in 10 N HNO, containing 25 H,0, produced nearly complete separation, as shown by the radioactivity absorption (transmission) curves of pure Zr95 and Nb95. In snother experiment, a nitric acid solution of iron hydroxide precipitate from the actual processing of fission products was extracted with 9.8 N HNO; Reextraction of Nb with HNO, and H<sub>2</sub>O<sub>2</sub> was carried out first; then Zr was reextracted with HNO, and oxalic acid. The absorption (transmission) curves for the Zr 95 and Nb 95 products coincided with those for pure Zr? 3 and Mb? 5. Separation of Rulos from a mixture of long-lived radioactive isotopes by coprecipitation with nickel, copper, lead, or cadmium sulfides is described as a preliminary step to Rulo6 extraction from 0.2 N HNO solution of the sulfides. The 0.2 N NaNO, was added prior to extraction with TBP. It was shown that about 981 Ru 106 was extracted from the sulfides. Orig. ert. has: 8 figures and 7 tables. Card 3/43

	NR: AP3005222	EWT(m)/BDS AFFT(		9/63/015/002/0138	/0146
OTHORS: rokhorova	Levin, V. I.; K., N. P.; Platnov	orpusov, G. V.; M	n'ko. N. M. I	atrusheva, Yeo N.	1 59
ITLE: Ex	traction of tet	ravalent cerium vi	th organic sol	vents.	
OURCE: A	tomaya energiya	4, v. 15, no. 2, 1	963, 138-146.		
OPIC TAGS Ltromethe	o cerium, tetre	avalent cerium, or Daphate	ganic solvent	, ozone, diethyl (	ther,
echanism uthors sh it does s(IV) by as been s cid. In s nitrate	of the extraction oved that the use not contaminated diethyl ether, in hown that in the latter two contaminates at high	on precipitation of of ozone is mose the solution by ditromethane, and first case, ceripass, at low HNO, a concentrations 2	f microemounts t expedient for extraneous ion tributyl phosp um is extracte concentration t is extracted	ies of cerium and of radicactive cer the exidation of s. The extraction hate was studied, d as saturated cers, cerium is extra as H <sub>2</sub> (Ce(NO <sub>3</sub> ) <sub>6</sub> ).	rium. cerium, of and it ium cted
ig. art.	hass 16 figure	ea, 5 tables and 7	formulas.	rate ions were est	1mated.

BREZHNEVA, N.Ye.; LEVIN, V.I.; KORPUSOV, G.V.; MAN'KO, N.M.; PLOTNOV, G.F.

Isolation of radioactive carrier-free cerium from a mixture of fission products. Raidokhimiia 6 no. 1:66-72 '64.

(MIRA 17:6)

BREZHNEVA, N.Ye.; LEVIN, V.I.; KORIUSOV, G.V.; PATPUSHEVA, Ye.M.;

MAN'KO, N.M.; KHORESHKO, L.T.

Separation of promethium-47 and europium-155 from a mixture of fission products by tributyl phosphate extraction. Radiokhimifa 6 nc.3:265-276 '64.

(MIEA 18,9)

IOPATA, A.Ya., kandidat tekhnicheskikh nauk; MAN'KO N.S., inzhemer; MOSENKIS, M.G., inzhemer; KOSTENKO, G.F., redaktor; TRYASUMOVA, P.G., redaktor; SERDYUK, V.K., inzhemer, redaktor.

[The 1336M and 1336R turret lathes; directions for maintaining

[The 1336M and 1336R turret lathes; directions for maintaining and adjusting] Tekarne-revol'veraye stanki 1336M i 1336R; ruke-vedstvo po ebsluzhivaniiu i maladke. Izd.2-ee. Pod red. G.F. Kestenke i P.G.Triasuneva. Kiev, Ges.nauchne-tekhn.izd-ve mashinestreit. lit-ry, 1956. 64 p. (MIRA 9:6)

1.Kiyevskiy zavod stankov-avtomatov. (Lathes)

DUBINSKIY, L.M.; ZAMANSKIY, S.M.; LOPATA, A.Ya.; MAN'KO, N.S.; REZNIK, N.D.; SKARZHEVSKIY, R.A.; TERESHCHENKÖ, A.I.; KOSTENKO, G.F., red.; TARASINKEVICH, F.P., red.; KAPLINSKIY, L.A., red.; SOROKA, M.S., red.

[The multiple-spindle 1261M and 1262M automatic lathes and 1261P, and 1262P semiautomatic lathes; handbook on adjustment and servicing]Mnogoshpindel'nye tokarnye avtomaty 1261M, 1262M i poluavtomaty 12662P; rukovodstvo po naladke i obsluzhivaniu. Izd.2. Pod red. G.F.Kostenko, P.P.Tarasinkevicha i L.A.Kaplinskogo. Moskva, Mashgiz, 1960. 170 p. (MIRA 15:11) (Lathes-Maintenance and repair)

TESALOVA, O.T., assistent; MAN'KO, O.L.

Use of diaminodiphenylsulphone in treating Duhring's disease in a 15-month-old child. Vest.derm. i ven. 33 no.3:78 My-Je 159. (MIRA 12:9)

1. Iz kozhnoy kliniki Samarkandskogo meditsinskogo instituta i Samarkandskogo oblastnogo kozhnovenerologicheskogo dispansera. (SKIN--DISEASES) (SULFONE)

BEKHER, R.M.; VASILYUK, N.I.; MAN'KO, O.Ya. Determination of halides in highly volatile organic substances. Zav. lab. 29 no.6:675-676 '63. (MIRA 16:6) Zav. lab. 29 no.6:675-676 '63.

> 1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley, filial v g. Rubezhnoye.
> (Halides) (Organic compounds)

VOLODARSKIY, Semen Mikhaylovich; MAN'KO. P.A. otvetstvennyy redaktor;
SHAURAK, Ye.N., redaktor; KAMOLOVA, V.M., tekhnicheskiy redaktor

[Repair of marine boilers] Remont sudovykh parovykh kotlov.
Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl., 1956.
105 p. (MIRA 9:11)

(Boilers, Marine)

MANUKO, P.A., kandidat tekhnicheskikh nauk; LUKOVKIN, A.I.; SVINARDNEO, V.A.,
INFONET.

Waste heat boiler-mufflers. Sudostroenie 23 no.6:15-13 Je '57.

(MIRA 10:7)

(Boilers, Marine)

HAN'KG, P.A., kand. tekhn. nauk; ANDREYEV, I.L., inzh.; IUKOVKIN, A.I., inzh.

Building auxiliary water-tuber boilers for sea-going vessels. Sudostroenie 23 no.11:47-49 N '57.

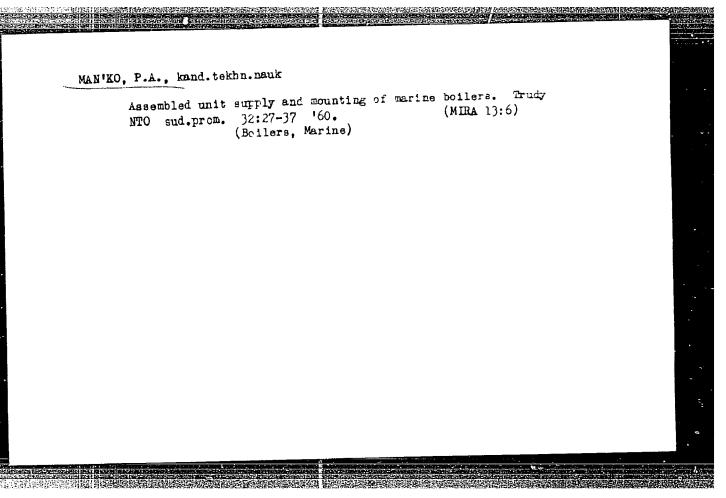
(Boilers, Water-tube)

ANDREYEV, Igor' Leonidovich; LUEOVKIN, Aleksandr Ivanovich; MAN'ED. Patr
Aleksavavich; TIKHDMIROV, Aleksandr Anatol'yevich; KUZ'MIN, I.N.,
otv.(nauchnyy) red.; VLASOVA, Z.V., red.; ERASTOVA, H.V., tekhn.red.

[Protecting marine watertube boilers from corrosion] Zashchita
sudovykh vodotrubnykh kotlov ot korrozii. Leningrad, Gos. soiuznoe
izd-vo sudostroit. promyshl., 1958. 100 p. (MIRA 12:1)
(Corrosion and anticorrosives) (Boilers, Watertube)

MAN'KO, P.A., kand. tekhn. nauk; ANDREYEV, I.L., inzh.; LUKOVKIN, A.I., inzh.;

Machining marine boiler collecting drums on multispindle machine tools. Sudostroenie 24 no.2:51-54 F '58. (MIRA 11:3) (Boilers, Warine) (Machine tools)



L 65104-65 EWF(m)/EWP(t	and the state of t	elementaria grafi pengenter i felik kasamatan diri ditu untuk filosofi, bekarapat di basapat dagan melijah ju	
ACCESSION NR: AP5021975	",""就作了","我们,是是好了,我们就看到这个是好人的,我们就没有一样,我们就会没有好多么。""	/0286/65/000/014/0035/00 2.151:621.984.58	35
AUTHOR: Navagin, Yu. S.; E	ukovkin, A. I., Han'ko, P.	A.; Ponomarev, G. D.; P	in,
<u>H: V.</u> =	462	Y. 15	
TITLE: A method for pressi	ng pipes in tube sheets. (	Class 13, No. 172844	
			27
SOURCE: Byulleten' izobret	eniy i tovarnykh znakov, no	o. 14, 1965, 35	37 B
TOPIC TAGA: pipe, metal tu	be, explosive forming 4		
。 4.60m - 20m - 3.1 m. 1966 f 1967 - 4.60m - 4.60m - 5.60m - 3.10m - 3.00m - 4.00m - 4.00m - 4.00m - 4.00m			
ABSTRACT: This Author's Ce sheets in heat exchangers b liability is improved and t through the explosion of ch to the thickness of the tub	y using the pressure of a che process is simplified by arges placed in each pipe	nedium inside the pipes. / creating the pressure	Re-
ABSTRACT: This Author's Ce sheets in heat exchangers b liability is improved and t through the explosion of ch	y using the pressure of a che process is simplified by arges placed in each pipe	nedium inside the pipes. / creating the pressure	Re-
ABSTRACT: This Author's Ce sheets in heat exchangers b liability is improved and t through the explosion of ch to the thickness of the tub	y using the pressure of a che process is simplified by arges placed in each pipe	nedium inside the pipes. / creating the pressure	Re- onds
ABSTRACT: This Author's Ce sheets in heat exchangers b liability is improved and t through the explosion of ch to the thickness of the tub ASSOCIATION: none	y using the pressure of a che process is simplified by arges placed in each pipe of sheet.	medium inside the pipes.	Re- onds

MAN'KO, P.I.; MASIOV, N.I.

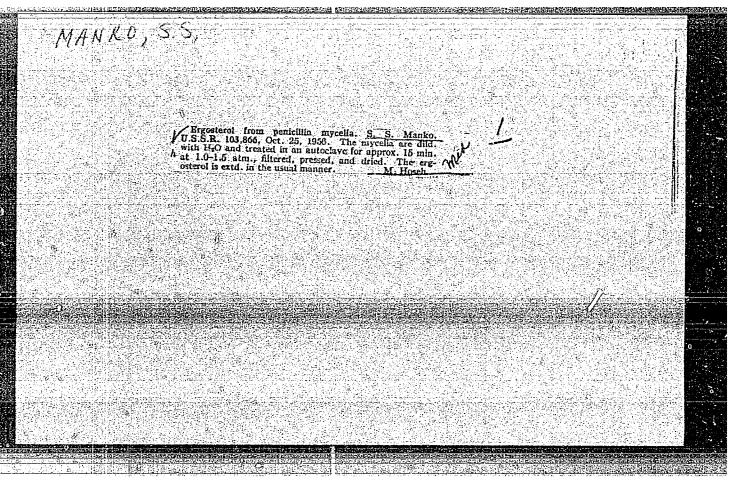
Letters to the editor. Transp.stroi. 10 no.7:60-61 J1 '60.
(MIRA 13:7)

1. Zamestitel' nachal'nika po kadram tresta Dneprotransstroy
(for Man'ko). 2. Nachal'nik tekhnicheskogo otdela tresta
Dneprotrasstroy (for Maslov).
(Construction industry)

WAKSMUNDZKI, Andrzej; SUPRYNOWICZ, Zdzislaw; MANKO, Regina

Zircon concentrates as a supporting material in gas-liquid partition chromatography. Chem anal 7 no.6:1051-1058 '62.

1. Department of Physical Chemistry, M. Gurie-Sklodowsk University, Lublin.



MANKO,	S.S.	
	Mycelium of Penicillium as a source of ergosterol. Trudy VNIVI 6:92-97 '59. (MIRA 13:7)	
	l. Vsesoyuanyy nauchno-issledovatel'skiy vitaminnyy institut. Tekhnologicheskaya laboratoriya. (ERCOSTEROL)	

IVIAN'KU, V

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1971

AUTHOR MAN'KO, V., GAVRILOVSKIJ, B.V., GOLOVNJA, V.JA., KADARZEV, K.V.,

KLJUCAREV, A.P.

TITLE The Polarization of Low Energy Protons on the Occasion of

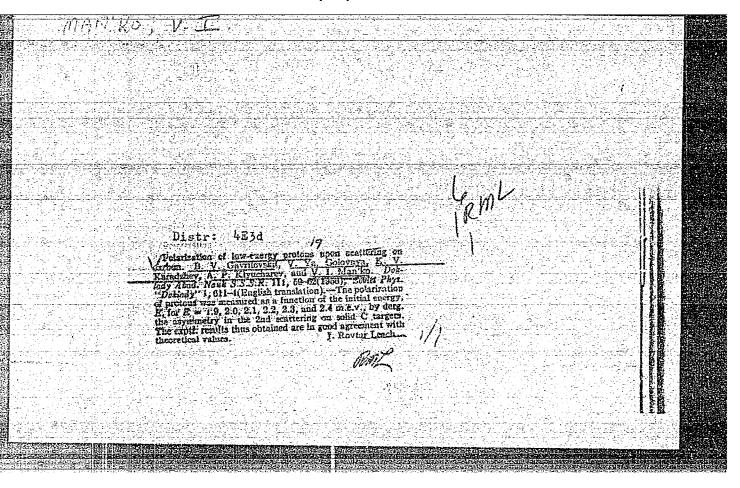
Scattering by Carbon.

PERIODICAL Dokl. Akad. Nauk 111, fasc. 1, 59-62 (1956)

Issued: 1 / 1957

This work was carried out by means of an electric generator. The scheme of the experiment is illustrated in form of a drawing. The measuring device consists of two vacuum chambers. An electron bundle coming from an electrostatic generator impinges upon the first carbon target  $\mathbf{M}_{I}$  in chamber I and the protons scattered on this target are scattered once more on target  $\mathbf{M}_{II}$  of chamber II. After having thus been scattered twice the protons are now registered by photoplates with an emulsion thickness of 100 . The angle  $\theta_{1}$  on the occasion of the first scattering amounted to  $60^{\circ}$  in the center of mass system, and for the angle  $\theta_{2}$  of the second scattering the values +  $60^{\circ}$ , + 120° and + 150° in the center of mass system were selected. In connection with each irradiation 6 photoplates with an accordingly selected value of  $\theta_{2}$  were exposed. The solid carbon targets were produced with much care as follows: A nitrocellulose film of from 0,2 to 0,3 thickness was pasted on to a brass ring, and upon this a colloidal graphite solution (aquadag) was poured. After drying the organic base was carefully burned off.

Dokl.Akad.Nauk 111, fasc.1, 59-62 (1956) The authors carried out a number of exposures at the values  $E_2 = 1,9$ ; 2,0; 2,1; 2,2; 2,3 and 2,4 MeV of the protons impinging on to the target M.. The expositions lasted from 5 to 20 hours at an amperage of 1-2 milliamperes. For individual expositions the authors determined the energy spectrum of the protons scattered on the target  $M_{TT}$ . A diagram illustrates the case  $\theta_2 = 60^{\circ}$  at an initial energy of the protons of 2,1 MeV. The thickness of the target  $M_{I}$  amounted to 0,80 mg/cm<sup>2</sup> and that of the target  $M_{II}$  amounted to 0,65 mg/cm<sup>2</sup>. From 300 to 1000 protons were recorded on the photoplates per exposition. The ratio of the number of acts of scattering to the right and to the left means for each absolute value of  $\theta_2$  the measure of the azimuthal asymmetry of the scattering of the protons by the target M<sub>II</sub> and therefore also a measure of polarization in connection with the scattering  $C^{12}(p,p)$ . The authors subjected the energy dependence of the right-and-left asymmetry for  $\Theta_2 = 60^\circ$  with the closest attention. The data found on this occasion, which were averaged over the individual expositioner, are given in form of a table. At an initial energy of the protons of from 0.00 to 2,4 MeV and at 0.00 it is possible, in the case of the targets used in this case, to investigate the polarization of the protons on the occasion of  $C^{12}(p,p)$ -scattering in the interval 1,6-2,4 MeV by measuring asymmetry. Also the experimental results for  $\theta_2$  = 120° and  $\theta_2$  = 150° are illustrated in form of a table. The results agree well with the corresponding theory. INSTITUTION: Physical-Technical Institute of the Academy of Science of the Ukrainian SSR



#### CIA-RDP86-00513R001032130001-0 "APPROVED FOR RELEASE: 03/13/2001

11:111 46,6.4.

AUTHORS

Sorokin, P.V., Valter, A.K., Gavrilovskiy, B.V., 56-3-9/59

Karadzhev, K.V., Man'ko, V.I., Taranov, A.Ya.

Polarization of Protons Scattered by 016. Spin and Parity of the TITLE

3,11 MeV Level in the F17 Nucleus

(Polyarizatsiya protonov pri rasseyanii na 016.Spin i chetnost'

urovnya 3,11 MeV yadra F17- Russian)

PERIODICAL.

Zhurnal Eksperim.i Teoret.Fiziki,1957,Vol 33,Nr 3,pp 606-609(USSR)

ABSTRACT

The protons scattered elastically by 016(initial energy from 2,6 to 2,8 MeV) were investigated with respect to their polarization. As a characteristic quantity  $P_{eff}$  to 0,80  $\pm$  0,07 was found within the total energy domain. Peff denotes the effective polarization value. Spin and parity were determined at 1/2 for the point of resonance of  $E_{\rm R}$  = 2,66 MeV, which corresponds to an excited level of 3,11 MeV in an F17 -nucleus.

There are 3 figures, 1 table and 1 Slavic reference.

ASSOCIATION Physical-Technical Institute AN of the Ukrainian SSR

(Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR).

SUBMITTED AVAILABLE

February 26, 1957 Library of Congress.

Card 1/1

21(7) AUTHORS:

Baldin, S. A., Man'ko, V. I.

SOV/56-36-6-53/66

TITLE:

Polarization of Protons in Scattering on C12 (Polyarizatsiya

protonov pri rasseyanii na c<sup>12</sup>)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 6, p 1937 (USSR)

ABSTRACT:

An analysis of the elastic scattering of protons makes it possible to determine the position and characteristics of the nuclear levels. Reich et al (Ref 1) carried out such investigations; they investigated the elastic scattering of protons on C<sup>12</sup>-nuclei in the interval of 1.5-5.5 Mev and carried out the complete phase analysis. They identified the following

levels of the N<sup>13</sup>-nucleus: 1.698(1/2<sup>-</sup>), 1.748(5/2<sup>+</sup>), 4.808(5/2<sup>+</sup>), and 5.37(3/2<sup>+</sup>). The authors of the present "Letter to the Editor" made use of the data of the phase analysis of reference 1 for the purpose of calculating the dependence of the polarization of protons and the cross sections upon the energy in the

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 $(p-c^{12})$  scattering (energy interval 2.5-4.5 Mev) at scattering angles of 0-180° in the cms. The most important results are

Folarization of Protons in Scattering on C12

SOV/56-36-6-50/66

shown by a diagram. The curves show the energy dependence of polarization for some angles between 30 and 150°. The individual curves differ considerably both with respect to position and shape; polarization is found to be highly sensitive to D-phase values. Thus, a variation of the D<sub>2/3</sub>-phase at 4.5 MeV by 5° varies the amount of polarization by the 2-3-fold. This shows that investigations of polarization may render very exact phase analyses possible. There are 1 figure and 1 reference.

SUBMITTED:

February 27, 1959

Card 2/2

Folarisation of protons scattered on 016. Zhur. eksp. i teor.
fiz. 39 no.2:416-417 Ag '60. (MRA 13:9)

(Protons—Scattering) (Oxygen—Isotopes)

MANKO, V.T.	2	
TEPLOV, I. B., MAN'KO, V. I., and SALATSKIY V. I.		
"Studies on the mechanism of nuclear reactions"	:	
Report presented at the Conference on Nuclear Reactions produced b	ny light puolei	·
Dubna, December 1962.	y light nuclel,	
	; ,	
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L 17601-63 ENT(m)/EDS AFFTC/ASD S/056/65/044/005/017/055

AUTHOR: Karadzhev, K. V., Man'ko, V. I., and Chukreyev, F. Ye.

TITLE: Angular distribution of particles from the 0<sup>18</sup>(p, \alpha o)N<sup>15</sup> reaction /9

PERIODICAL: Zhurnal eksperimental moy i tekinicheskoy fiziki, v. 44, no. 5, 1963, 870-877

TEXT: The 0<sup>18</sup>(p, \alpha o)N<sup>15</sup> reaction goes through intermediate F<sup>19</sup> levels, and the study of the properties of outgoing particles of this and the (p, n) and (p, Y) reactions contributed to the understanding of the properties of some 55 or so energy levels of F<sup>19</sup>. The present paper describes the angular distributions of particles smitted in the 0<sup>18</sup>(p, \alpha o)N<sup>15</sup> reaction, studied for angles between 50 and 1500 (laboratory system) and for proton energies between 750 and 1050 kev in 12 steps. (Protons originated from an electrostatic generator; \alpha countras had an 15 resolving power with the 6,100 kev 0m<sup>42</sup> \alpha particles.) The experimental data are analyzed on the basis of the resonance theory of nuclear reactions. The spin and parity and partial reduced sydths for the 8.89 May level in the F<sup>19</sup> nucleus are found to be 3\*, 0p = 2.4-10-4, 0 = 5.5-10-5 respectively. It is concluded that

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L 17601-63	8/056/63/044/003/017/053
Angular distribution of particles	$\mathcal{O}$
with a high probability of associations o in this state. There are 4 figures.	f nucleons are formed in the F <sup>19</sup> nucleus
SUBMITTED: October 24, 1962	
Card 2/2	

KARADYEV, V. V.; MANKO, V. I.; CHUKREYEV, F. YE.

"Properties of the  $F^{19}$  nucleus levels excited in the reaction  $O^{18}$  (p,  $\alpha$ .) $N^{19}$ ."

report submitted for Intl Conf on Low & Medium Energies Nuclear Physics, Paris, 2-8 Jul 64.

Kurchatov Inst, Moscow.

ACCESSION NR: AP4031157

\$/0056/64/046/004/1352/1359

AUTHOR: Dzyaloshinskiy, I. Ye.; Man'ko, V. I.

TITLE: Nonlinear effects in antiferromagnets. "Latent" antiferromagnetism.

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1352-1359

TOPIC TAGS: antiferromagnetism, magnetic moment, uranium peroxide, iron carbonate,

ferric oxide

ABSTRACT: In the general expansion of the magnetic moment

the quadratic terms (coefficient b), which vanish in the case of paramagnetic substances but not in the case of antiferromagnetic substances, are shown to be either of exchange or of relativistic origin. In the case of exchange origin their order is b  $^{\circ}$  ×/H ( ×— ordinary susceptibility, H — exchange field,  $^{\circ}$  5 x 10<sup>5</sup> — 10<sup>6</sup> Oe) and can necessitate appreciable corrections (on the order of 10%). In the case of relativistic origin b ~ %/H (" is the ratio of the relativistic energy to the exchange energy), and the correction is on the order of 1% and cannot be detected. It is shown specifically that in the antiferromagnet. the coefficient b is due

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ACCESSION NR: AP4031157

to exchange forces, whereas in FeCO and in the low-temperature modification of  $\sigma$ -Fe<sub>2</sub>O<sub>3</sub> the coefficient b is of relativistic origin. It is also shown that ferromagnets can exist which have a unique "latent" antiferromagnetism, in which the average magnetic moment of the ions differ both in magnitude and in direction, although, unlike in ferrites all the magnetic ions are identical and are located in crystallographically equivalent positions. This "latent" antiferromagnetism changes the temperature dependence of the spontaneous moment near the ferromagnet transition point. The "latent" antiferromagnetism of a cubic face-centered crystal having the symmetry corresponding to close packing (space group O<sub>5</sub>) is considered as an example. The formulas obtained for the nonlinear effects in antiferromagnets are useful at low temperatures and not only near the temperature of the antiferromagnetic transition. Orig. art. has: 2 figures and 13 formulas.

ASSOCIATION: Institut fizicheskikh problem Akademii nauk SSSR (Institute of Physics Problems Academy of Sciences SSSR)

SUBMITTED: 020ct63

DATE ACO: 07May64

ENCL: 00

SUB CODE: SS

NR REF SOV: 002

OTHER: 002

Card 2/2

L 13948-65 ENT(m), DEAAP/AFWL/SSD ACCESSION NR: AP4047883

s/0056/64/047/004/1185/1198

AUTHORS: Karadzhev, K. V.: Man'ko, V. I.; Chukreyev, F. Ye.

TIPLE: Characteristics of the levels of the nucleus  $\frac{F-19}{10}$  in the  $\mathcal E$  excitation energy interval 8.5--10.5 MeV

SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 47, no. 4, 1964, 1185-1198

TOPIC TAGS: proton alpha reaction, angular distribution, energy dependence, alpha particle yield, reduced width

ABSTRACT: This is a continuation of an earlier investigation by the authors (ZhETF v. 44, 870, 1963), where the technique employed is described. The energy range of the protons in this study of the  $0^{18}$  (p,  $\alpha$ )N<sup>15</sup> reaction was higher, and amounted to 1100-2600 keV. Approximately 120 angular distributions were obtained and expanded in Legendre polynomials. Another departure from the earlier study

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L 13948-65 ACCESSION NR: AP4047883

was that the energy dependence of the cross section was measured with a solid target instead of a gas. A magnetic separator was used to prepare the target by driving Ol8 ions into a thin film of aluminum oxide. The target thickness was ~20 µg/cm2, corresponding to a mean energy loss of about 3 keV in the target. In addition to measuring the angular distributions, the energy dependence of the sum of the α-particle yield at 54.5 and 125.5° in the c.m.s. was measured. The analysis of the results shows that states having spins and parities  $1/2^+$  and  $3/2^+$  make the main contribution to the reaction cross section. The properties of 14 resonances corresponding to F19 states in the excitation region of 9--10.5 MeV were also derived. The reduced a-particle widths exhibited a very narrow distribution centered about 5 x  $10^{-3}$  x  $3\pi^2/2\mu r^2$  ( $\mu$  and r -- reduced mass and radius of the channel. This suggests that the probability of finding an a particle on the nuclear surface can be regarded as a characteristic of the given nucleus, and depends only slightly on the structure of the given level. Although for many levels the

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L 13948-65 ACCESSION NR: AP4047883 ratio of the reduced \alpha-particle to reduced nucleon width is greatly larger than unity, in most cases this ratio is equal to unity. "In conclusion we thank L. V. Groshev for continued interest and valuable suggestions, A. I. Baz', D. P. Grechukhin, and P. E. Nemirovskiy for discussions, M. I. Gusev for preparing the targets, and A. M. Pasechnikov and the entire electrostatic-generator crew for efficient operation." Orig. art. has: 9 figures, 2 formulas, and 1 table. ASSOCIATION: None ENCL: SUBMITTED: 04Apr64 OTHER: 014 NR REF SOV: 002 SUB CODE: NP Card 3/3

KOMAR, A.A.; MAN'KO, V.I.

Some aspects of the physical applications of unitary groups. IAd. fiz. 1 no.4:693-700 Ap '65. (MIRA 18:5)

1. Fizicheskiy institut im. P.N.Lebedeva AN SSSR.

L 13553-66 ENT(d)/ENT(m)/T/ENA(m)-2/ENP(1) IJP(c)

ACC NR: AP6001158

SOURCE CODE: UR/0367/65/002/003/0512/0516

AUTHOR: Man'ko, V. I.

ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences, SSSR (Fizicheskiy

institut Akademii nauk SSSR)

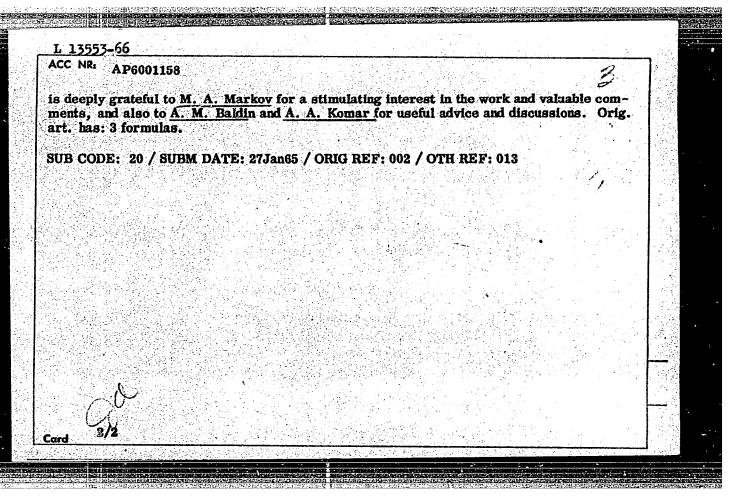
TITLE: The oscillator model of elementary particles 14,65,44

SOURCE: Yadernaya fizika, v. 2, no. 3, 1965, 512-516

TOPIC TAGS: elementary particle, atomic theory, theoretic physics

ABSTRACT: The group approach is being widely used in the physics of elementary particles. There are, however, no sufficiently convincing dynamic foundations available for the selection of one group over another. The author, therefore, finds it interesting to examine the possibilities in some models; in particular, the author finds the oscillator model to be the most attractive and simple, since in many physical problems this model has proven its worth. This paper proposes a model of two three-dimensional oscillators with different frequencies. It is shown that it is possible to interpret the symmetry properties of baryons (according to the unitary symmetry hypothesis) on the basis of the oscillator model proposed. The following relationship between masses was obtained by means of this model:  $Y^* - \Sigma = \Xi^* * - \Xi^*$ . The author predicts the existence of a unitary octet, a singlet, and a 27-plet with unperturbed masses in the 1.6 GeV region. The question of the mixing of multiplets is discussed. Author

Card 1/2



MAN'KO L.I.

Possible use of groups B<sub>3</sub>, C<sub>3</sub>, D<sub>3</sub> for the classification of elementary particles. IAd. fiz. 2 no.4:733-737 0 '65. (MIRA 18:11)

1. Fizicheskiy institut im. P.N. Lebedeva AN SSSR.

L 9226-66 EWT(d)/EWT(1)/EWT(m)/EWP(t)/EWP(b) IJP(c) JD	
ACC NR: AP5026101 SOURCE CODE: UR/0386/65/002/005/0230/0234  AUTHOR: Malkin, I. A.; Man'ko, V. I.	
ORG: Moscow Physicotechnical Institute (Moskovskiy fiziko-tekhnicheskiy institut)	
TITLE: Symmetry of the hydrogen atom 199,5	
SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu (Prilozheniye), v. 2, no. 5, 1965, 230-234	
TOPIC TAGS: hydrogen atom, group theory, elementary particle, Lie group, wave equation, algebra 17	
ABSTRACT: The purpose of the paper is to show that the "symmetry group" of the hydrogen atom is the non-compact group O <sub>6</sub> , the Lie algebra of which is the algebra D <sub>3</sub> , and to present a simple construction showing that the functions belonging to the dis-	
crete spectrum form a single infinite-dimensional irreducible representation of this algebra. This is done by defining an aggregate of operators forming an algebra closed against commutation and by calculating the matrix elements of these operators. Since the operators include those which transform any level N into N + 1 and N - 1, respec-	
tively, it is possible to obtain from any state in succession the entire aggregate of states. This is equivalent to constructing an infinite-dimensional representation of the algebra of the operators. This representation is shown to be irreducible. The	
values of the Casimir operators for this representation are calculated. The representation remains irreducible when we narrow down from D <sub>3</sub> to the deSitter algebra.	
Card 1/2	

he algebra I nd therefore	O <sub>3</sub> contains a s the levels of	ubalgebra wi	th the comm	utation rela	tions of the	algebra A	
rreducible r • B. Bereste	epresentations	of this alg	ebra. Autho	ors are grat	eful to A. M	the aid of	
discussion formulas.	of the results	and to M. A.	Naymark fo	r useful ad	and I. S. S. vice. Orig.	apiro for art. has:	
ub code: 20	/ SUBM DATE	: 08Ju165/	ORIG REF:	001/ 0	TH REF: 005		
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	eres deventes de la company
L 28865_66 EWT(m)/T  ACC NR. A26018855: SOURCE CODE: UR/0367/65/052/006/1103/1114  AUTHOR: Ginzburg, V. Let Man'ko, V. I.	
ORG: Physics Institute is P. N. Lebedev, AN SSSR (Fisioheskiy institut AN SSSR)	
SOURCE: Tedernaya fizika, v. 2, no. 6, 1965, 1103-1114 TOPIC TAGS: moolear particle, nuclear spin	
ABSTRACT: Relativistic invariant equations are considered for particles described by the "center of mang" coordinates z <sub>i</sub> and three 4-vectors will (1 = 1,2,3,4,5 $\ll$ 1,2,3); will are the intrinsic variables which obey the oscillator equations. The solutions of these equations express the group SU(3) in the rest system. It is possible to write the equations which give the solution corresponding to the octet and decouplet for the case of half-integer spin and to the cotet and singlet for the case of integer spin.	7
The authors thank N. A. Markov for his discussions. Orig. art. has: 25 formulas and 3 tables. [Based on authors! Eng. abet.] [JPRS]  SUB CODE: 20 / SUBM DATE: 15May 65 / ORIG REF: 008 / OTH REF: 006	
Cord 1/1 (10)	

PETROV, R.V.; MAN\*KO, V.M.; YEGOROV, I.K.

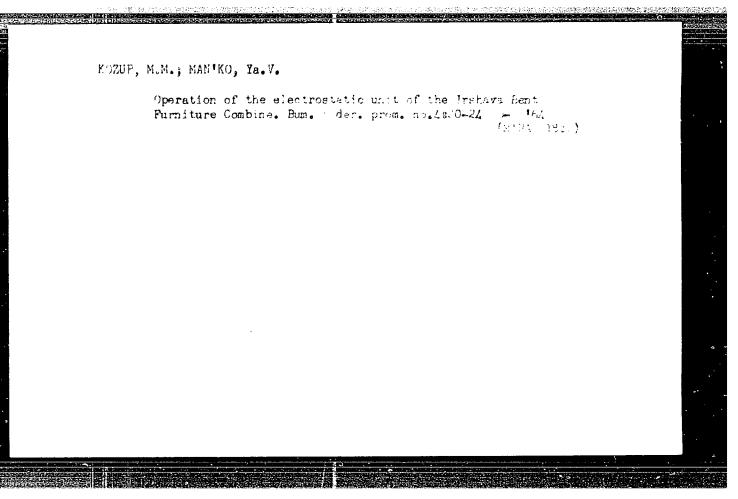
Variations in the capacity of antibody production in mice of highly inbred lines. Dokl. AN SSSR 153 no.3:728-730 N '63. (MIRA 17:1)

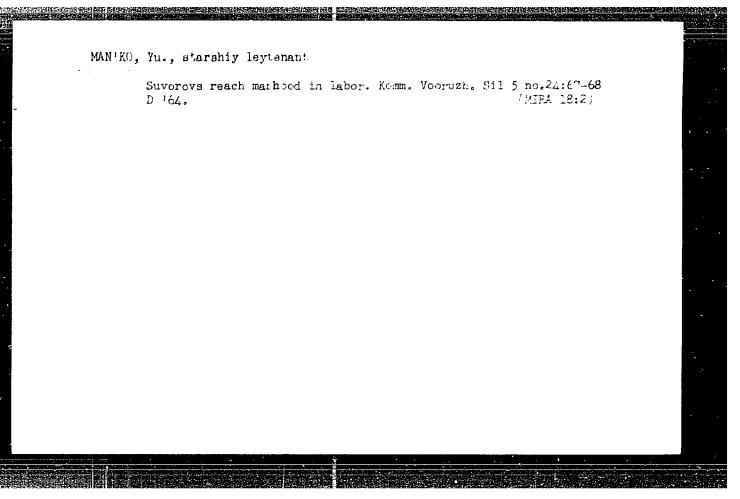
1. Predstavleno akademikom I.I. Shmal'gauzenom.

BELOKON', M.Ye.; INOZEMTSEV, G.B.; KOZYRINA, A.P.; VOZNYUK, V.S.; OSTIYAN, Z.Yu.; KOZUB, M.M.; MAN'KO, Ya.V.

Electric apparatus for chair varnishing. Der. prom. 12 no.9: 11-12 S 163. (MIRA 16:10)

- 1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki drevesiny (for Belokon', Inozemtsev, Kozyrina, Voznyuk). 2. Irshavskiy mebel'nyy kombinat (for Ostiyan, Kozub, Man'ko).



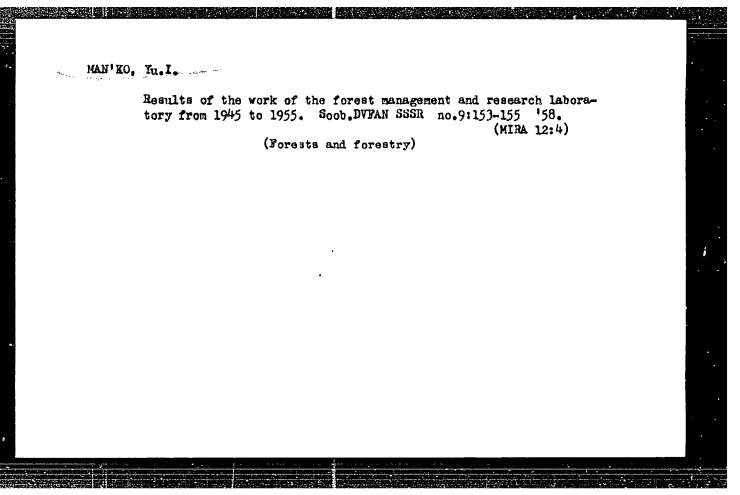


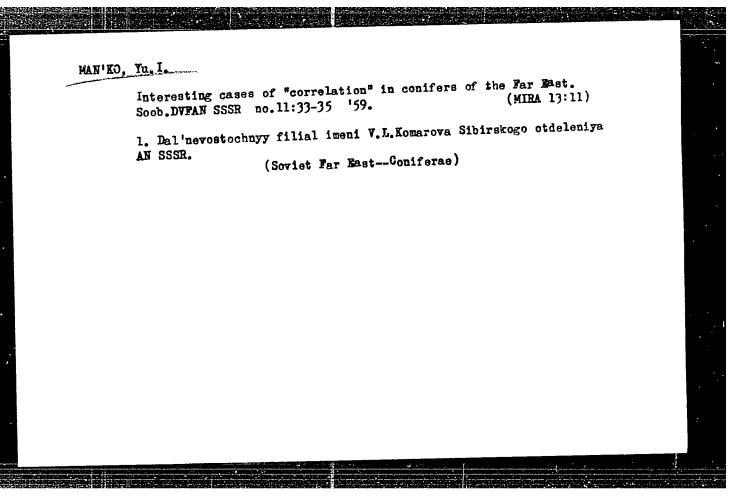
MAN'KO, Yu. I.

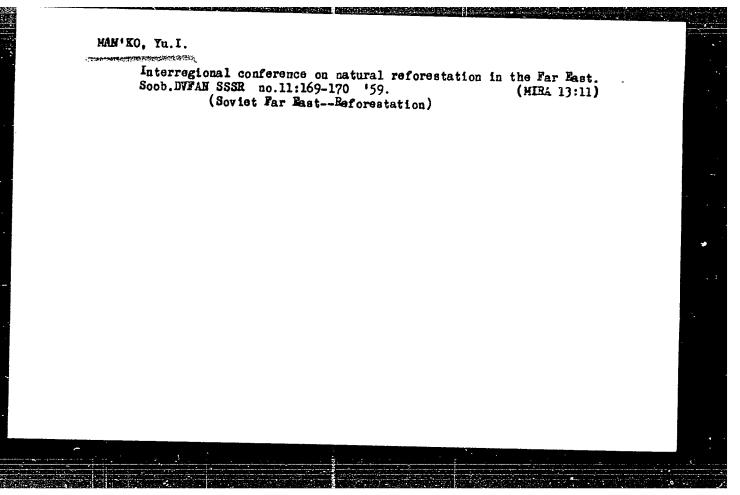
Dissertation defended for the degree of Candidate of Biological Sciences were defended at the Scientific Council of the Far-East Affiliate

"Natural Restoration of the Spruce-Broad-leaved Forests of the Northern Half of Sikhote-Alin'."

Vestnik Akad. Nauk, No 4, pp 119-145







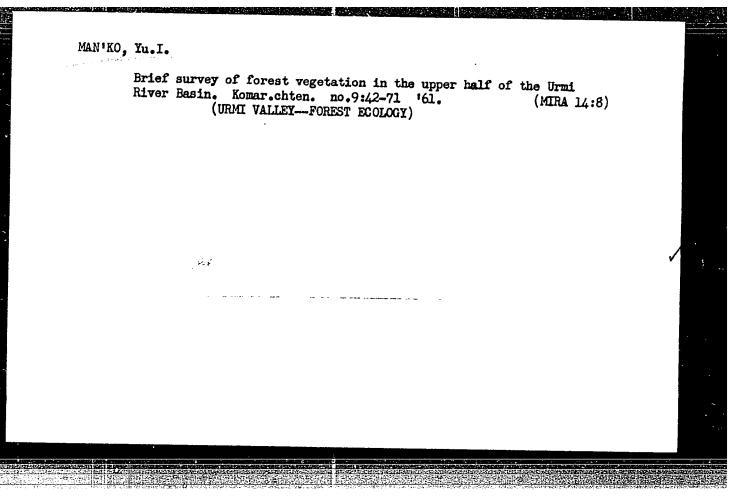
ROZENBERG, V.A.; VASIL'YEV, N.G.; MANI'KO, Yu.I.; FOPOV, N.A.; KURENTSOVA, G.E.

Relation of the pine (Pinus koraiensis) and oak (Quercus mongolica)
in the southern Maritime Territory. Soob.DVFAN SSSR no.12:89-95 160.

(MIRA 13:11)

1. Dal'nevostochnyy filial imeni V.L.Komarova Sibirskogo otdeleniya
AN SSSB.

(Maritime Territory--Forest ecology) (Oak) (Pine)



Regenerative hypertrophy of the skin in rats. Biul. eksp. biol. i med. 49 no.1:39-103 Ja '60. (MIRA 13:7)

1. Iz laboratorii rosta i razvitiya (zav. -prof. L.D.Liozner)
Instituta eksperimental'noy biologii (dir. - prof. I.N.Mayskiy) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.N.

(SKIN-WOUNDS AND INJURIES)

(REGENERATION (BIOLOGY))

L 32150-65

ACCESSION NR: AP4048761

S/0219/64/058/011/0107/0111

AUTHOR: Pukhal'skaya, Ye. Ch.; Man'ko, Yu. K.

TITLE: Serotonin effect on mitotic activity in certain organs of rats with monoaminoxidase blocking

SOURCE: Byulleten' eksperimental'noy blologii i meditainy\*, v. 58, no. 11, 1964, 107-111

TOPIC TAGS: rat, serotonin, mitosis, monoaminoxidase, liver, corneal epithelium, iproniazid

ABSTRACT: The first of three experimental series investigated the effect of serotonin (5-hydroxytryptamine) on cell mitosis under normal monoaminoxidase activity conditions, the second series investigated the effect of serotonin on cell mitosis with monoaminoxidase activity blocked by iproniazid, and the third series investigated the effect of iproniazid on cell mitosis without serotonin. In the first series, two-thirds of the liver crypts were removed before the rate received serotonin (30 mg/kg dose) subcutaneously or interperitoneally. The animals were decapitated 2-3 hrs later and tissues

Cord 1/3

L 32150-65

ACCESSION NR: APLO48761

from the liver, duodenum, and corneal epithelium were prepared to determine mitotic activity. In the second series iproniazid used as a monoaminoxidase inhibitor was introduced interperitoneally (100 mg/kg dose) 20 hrs before serctonin administration (30 mg/kg dose). In the third series only iproniazid (100 mg/kg dose) was introduced. The mitotic index was based on a 4000-5000 cell count. Results show that after serctonin administration the mitotic index more than doubled in the regenerating liver, displayed a slight increase in the duodenal crypts, and gradually dropped in the corneal epithelium, particularly after subcutaneous serctonin administration. Serctonin, administered after blocking of monoaminoxidase activity, reduced mitotic activity of corneal epithelium even more (by 10 times compared to control), but did not change the mitotic activity of the duodenal crypts. The differences in the nature of the serctonin effect on cell mitosis depend mostly on monoaminoxidase activity differences of the various tissues, that is, on the ratio between 5-hydroxytryptamine and 5-hydroxyindoleacetic acid. The former inhibits mitoses and the latter stimulates them. Orig. art, has: 1 table and 1 figure.

Cord 2/3

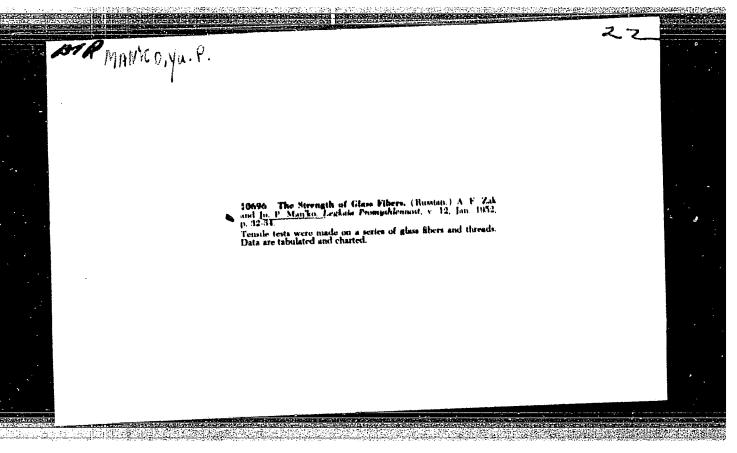
ASSOCIATION: Laboratoriya eksperimentalinoy knimoterapii Instituta eksperimentalinoy i klinicheskoy onkologii AMN SSSR, Moscow (Experimental Chemotherapy Laboratory of the Experimental and Clinical Oncology Institute AMN SSSR)					
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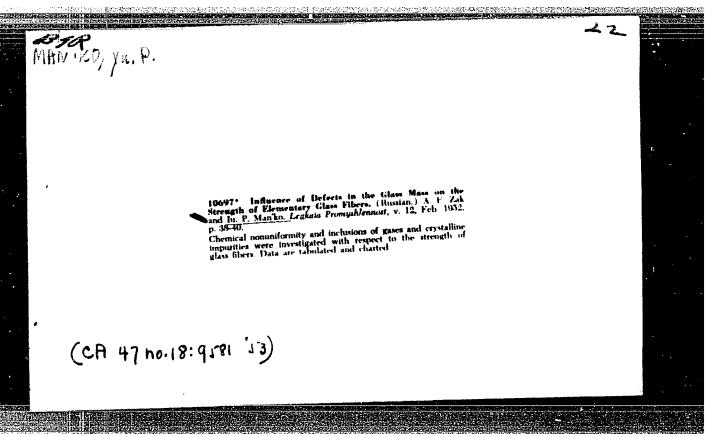
MAN'KO, Yu.K.

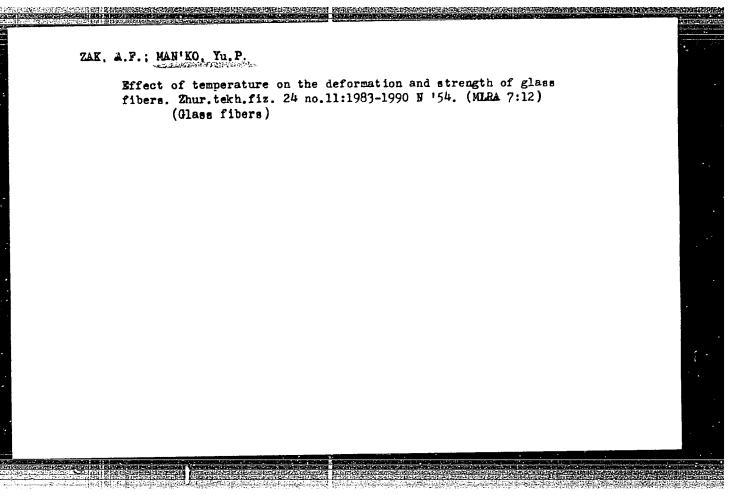
Experimental and clinical observations on regenerative changes in the skin surrounding a wound. Biul. eksp. biol. i med. 52 no.9:101-105 S <sup>1</sup>61. (MIRA 15:6)

1. Iz laboratorii rosta i razvitiya (zav. - prof. L.D. Liozner) Instituta eksperimental'noy biologii (direktor - prof. I.M. Mayskiy) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR A.V. Lebedinskim.

(SKIN-WOUNDS AND INJURIES)
(REGENERATION (BIOLOGY))







## MANKO, Z.

Techno-economic indexes of electric traction in 1955. p. 161. (PRZEDIAD KOLEJOWY ELEKTROTECHNICZNY. Vol. 8, no. 6, June 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1907.

### MANKO, Z.

Electric traction in the year 1958. p. 161.

PRZEGLAD KOLEJOWY ELEKTROTECHNICZNY. (Wydawnictwa Komunikacyjne) Warszawa, Poland, Vol. 11, no. 6, June 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

LABISZEMSKA-AMEZETSKA, Promettyka; imake-besek, Constant
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progenia. Czas. stomat. 18 no.5:471-476 My165.

1. Z Zakladu Orthodonoji Slaskiej Akademii Medyoznej v Zabrzu (Kierownik; doc. dr. med. stom. i lek. med. F. Labiszewska-Jaruzelska).

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