UBSR / Cultivated Plants. Fodder Grasses and Root Crops. M-3

: Ref Zhur - Biologiya, No 2, 1959, No. 6294 Abs Jour

: Pakhomova, L. M.

Author : Acad. Sci. USSR, Sibirian Branch Inst

: Characteristics of the Water Content in Title

Perennial Grasses

: Izv. Sibirsk. otd. AM USSR, 1958, No 1, 141-149 Orig Pub

: Experiments were carried out at the botanical Abstract

garden near Ufa with red clover, sickle alfalfa, sainfoin (Fungarian and Trans-Caucasian), white sweet clover (Melitotus alba) smooth and meadow brome, slender wheatgrass, Roegneria fibrosa, crested wheatgrass and Agro-pyron umbricatum. They were sowed without cover in the spring of 1953 and 1954. The

content of water in leaves of perennial grasses

Card 1/3

- [

: Ref Zhur - Biologiya, No --

grass.

APPROVED FOR RELEASEISTURISHING the end of the vegetation related to the aging related to the aging period. The period of the vegetation related to the aging related to the aging related to the aging period. The period of the vegetation related to the aging related to the aging period. Leaves of the vegetation related to the aging related to the aging related to the aging period of the vegetation related to the aging related perennial grasses contain less water than those of cultivated ones. grasses are disposed in the following order, according among the logistation of water in their leaves: among the leguminous - sweet clover, Hungarian, hybrid and Trans-Caucasian sainfoin, red clover, alfalfa blue hybrid, sickle alfalfa; among the cereals: crested wheatgrass and Agro-pyron umbricatum, smooth brome, Roegneria fibrosa and slender wheat-The water retaining capacity diminished

card 2/3

54

- and Root Crops. M-3 -2010g1ya, No 2, 1959, No. 6294

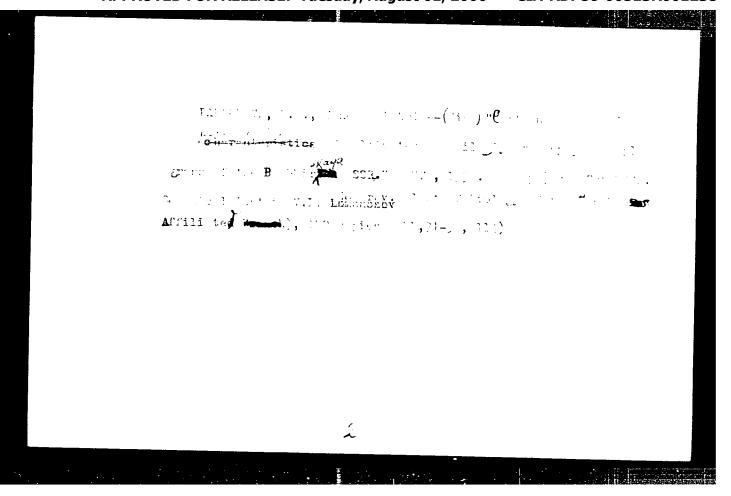
in the blooming phase in cereal perennial grasses and clover; it increased in sweet clover, sainfoin and alfalfa. The water retaining capacity or varioties and ecological types of red clover, hybrid and sickle alfalfa and smooth brome diminished with ago

DOBRUNOV, L.G.; PAKHOMOVA, L.M.; FAYZULLIN, A.D.

. Control of sugar beet growth and maturation under conditions of a shorter vegetation period. Fiziol. rast. 9 no.3:379-384 '62.

1. Institute of Biology of Bashkirian Affiliate of U.S.S.R. Academy of Sciences, Ufa.

(Bashkiria—Sugar beets)



PAKHOMOVA, L.W.

Features in the water cycle of perennial grasses. Izv. Sib. cti.
AN SSSR no.1:141-149 '58. (MIRA 11:8)

1.Bashkirskiy filial AN SSSR.
(Bashkiria--Grasses) (Plants--Transpiration)

MOSOV, M.P.; VDOVICHENKO, A.A.; PAKHOMOVA, L.N.

Effect of the conditions of the medium on spontaneous changes in the anisotropy of unoriented nylom fibers. Izv.vys.ucheb. sav.; tekh.tekst.prom. no.2:19-23 '63. (MIRA 16:6)

l. Kiyevskiy filial Vsesoyznogo nauchno-issledovatel*skogo instituta iskusstvennogo volokna.
(Nylon-Testing)

70,001,001k (H)	SOURCE COUR: UR/0413/66/000/015/0088/0088
	cna, Ye. T.; Pakhomova, L. S.; Derevyanko, R. In.
ORG: none	And the state of t
TITLE: A mothed for obtaining	g a modified carbamide resin. Class 39, No. 1814.0
SOURCE: Imobret prom obraz to	v zn, no. 15. 1966, 88
TOPIC TAGS: resin, carbamide,	acetic acid, aldenyde
bamide resin by treating carba	cate presents a method for obtaining a modified car- unide resin with aldehyde. To increase its resistance of with croton aldehyde in the medium of acetic acid.
SUB CODE: 11/ SUBM DATE: 12	Apr65
•	
, ·	

KRUGLOV, B.I. [Kruhlov, B.I.]; PAKHOMOVA, L.S.

Hydrogenation of crotonaldehyde, a by-product of acetaldehyde production. Knim. prom. [Ukr.] no.3:21 J.-S '64.

(MIRA 17:12

SEHENKOV, G.P. : PAKHONOVA, M.B.

Biochemical investigation of two diatom species. Vest. Mosk. un. Ser. biol., pochv., geol., geog. 14 no.2:39-46 '59. (MIRA 13:4)

1. Kafedra biokhimii rastenii, Moskovskogo gos. universiteta.
(Diatoms)

PAKHOMOVA, M.G.

"Amygdalus L." by R.V. Zamyslova, A.S. Lozina-Lozinskaia in "Trees and shrubs of the U.S.S.R.," vol.3. Reviewed by M.G. Pakhomova. Bot. zhur. 43 no.7:1049-1051 J1 58. (NIRA 11:9)

1. Institut genetiki i fiziologii rasteniy Akademii nauk Uzbekskoy SSR, Tashkent.

(Almond) (Zamyslova, R.V.) (Lozina-Lozinskaia, A.S.)

PAKHOMOVA, M.G.

New finds of the hybrid Amygdalus kalmykovii 0. Lincz. Bot. zhur. 43 no.4:569-571 Ap '58. (MIRA 11:6)

1. Institut genetiki i fisiologii rasteniy Mcademii nauk Usbekskoy SSR, s. Imnacharskoye. (Tashkent Province—Almond)

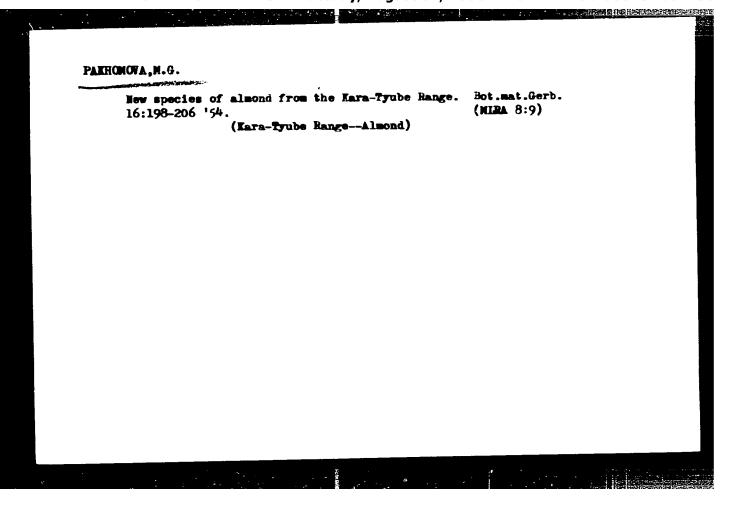
EATECHOVA, M. G. PATHONOTA, 1. 3. The Allerd Trace of Wate introduction of Attack Con-lock for their "tilization in the Tree Borrow." I ship at the Centual Acid State W. J. Link T. Merkinst, 200. Centual Asia State W. Secret W. J. Locks. Teakingt, 200. (Discretation for the Decree of Centilate in 10 September 200. Sei + m So: Kniz napa Leto int, Po.70, 1050.

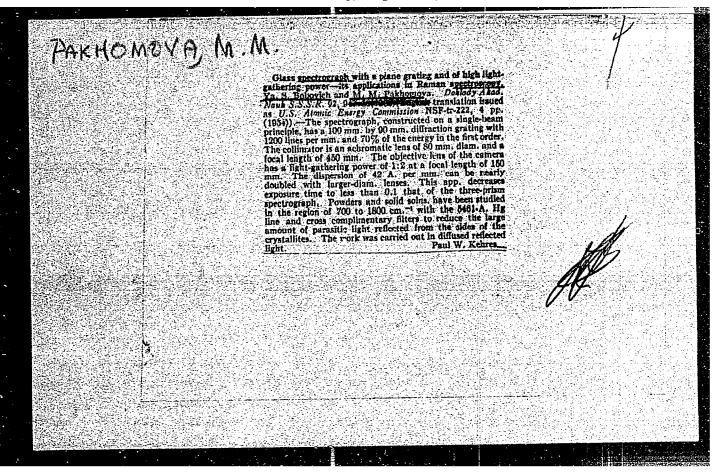
An illustration of the second

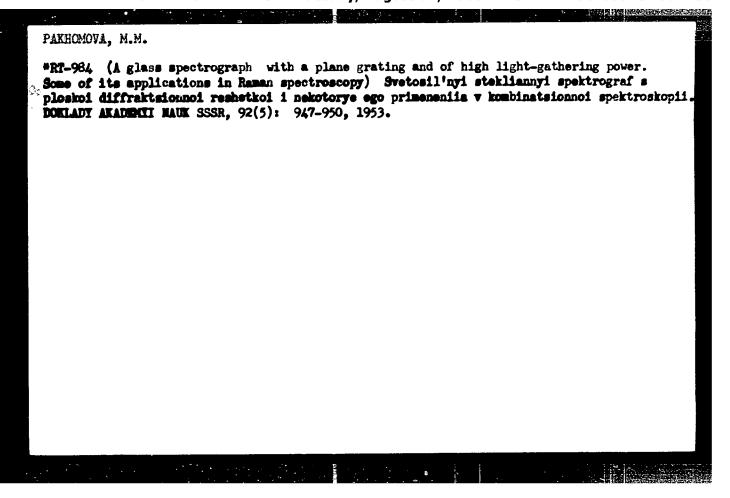
PAKHOMOVA, M.G.

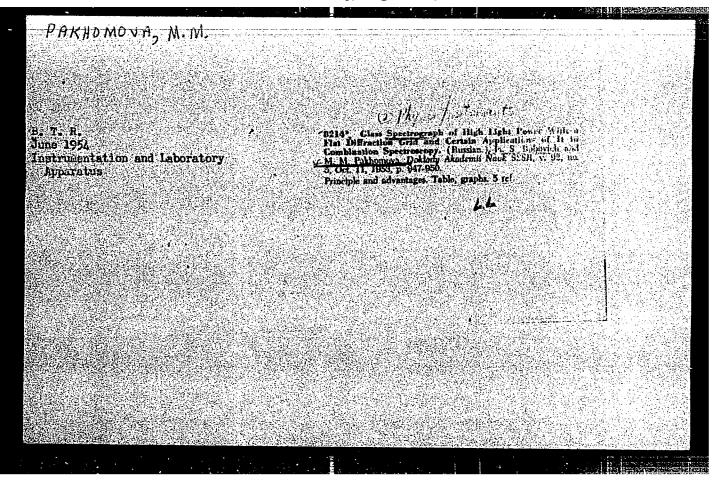
Systematic position of some Amygdalus species. Uzb. biol. zhur. no. 6:14-18 '60. (MIRA 14:2)

1. Institut genetiki i fiziologii rasteniy AN UzSSR. (ALMOND)



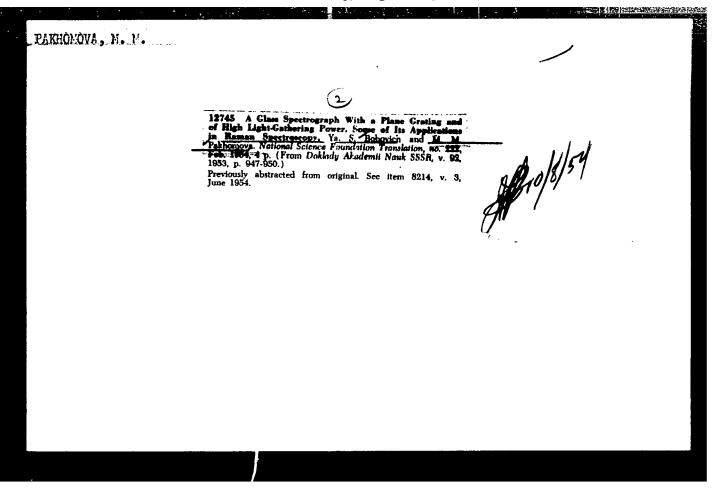






"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001238



APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012388

SERENKOV, G.P.; PAKHOMOVA, M.Y.

Studying nucleic acids in Scenedesmis quadricauda grown in light and darkness. Vest. Mosk. un. Ser. 6: Biol., pochv. 16 no.1:40-44 Ja-F '61. (MIRA 14:4)

1. Kafedra biokhimii rasteniy Moskovskogo universiteta.
(ALGAE) (NUCLEIC ACIDS)
(PLANTS, EFFECT OF LIGHT ON)

PAKHOMOVA, M.V.; SERENKOV, G.P.

Effect of light and darkness on the chemical composition of the

green alga Scenedesmus quadricauda. Vest. Mosk. un. Ser. 6: Biel., pochv. 17 no.4:44-47 J1-Ag '62. (MIRA 15:9)

1. Kafedra biokhimii Moskovskogo universiteta.
(Algae) (Plants, Effect of light on)

SERENKOV, G.P.; PAKHOMOVA, M.V.

Studying the chemical composition of the green alga Dunaliella sali a Teod. Vest. Mosk. un. Ser.6: Biol., pochv. 16 no.3:22-26 My-Je '61. (MTRA 14:6)

1. Kafedra biokhimii rasteniy Moskovskogo gosudarstven: ogo universiteta. (Algae)

(Flants--Chemical composition)

SERENKOV, G.P.; PAKHOMOVA, M.V.

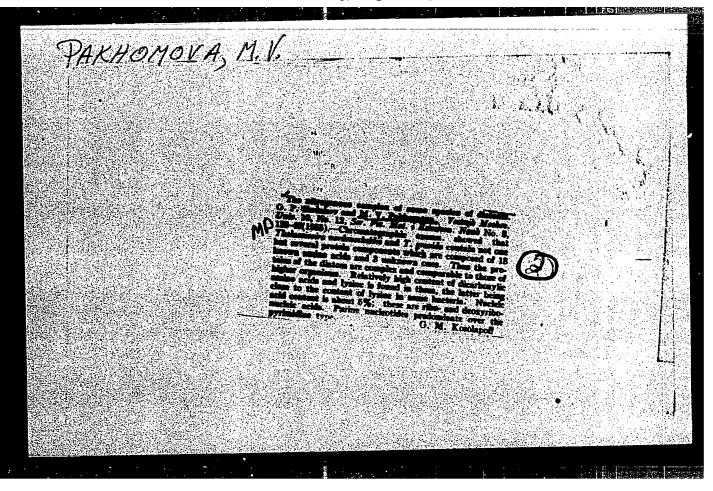
Study of carbohydrates in some species of algae. Nauch. dokl. vys. shkoly; biol. nauki no. 1:167-171 '61. (MIRA 14:2)

1. Rekomendovana kafedroy biokhimii rasteniy Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

(AIGAE) (CARBOHYDRATES)

L 31192-66 EWT(1) SCTB DD ACC NR: AP6022606	SOURCE CODE: UR/0218/65/030)/006/1204/1212
ORG: Soil Biology Faculty, Moscow (Biologo-pochvennyy fakul tet Gosud	State University im. M. V. Lomonoso	Noscow B
TITLE: Studies on acid-soluble pho rate of cell division and nitrogen	sphates in Chlorella vulgaris in resource	elation to
SOURCE: Biokhimiya, v. 30, no. 6,	1965, 1204-1212	
TOPIC TAGS: phosphate, chlorella, derivative, nitrate, urea, plant ch	plant reproduction, ester, nonmetal emistry	llic organic
ABSTRACT: The acid-soluble polyphoculture consists mostly of triphosprate 160 ml/hour) contain a greater and 6-phosphates, fructose-6-phosphribose-5-phosphate prodominating, trate 100 ml/hour). Among the free UTP, GMP, GDP, GTF, and CMP have be derivatives are also present: AMP. UDP-acetylglucosamine, UDP-acetylglucosamine, UDP-acetylglucosamine, und higher plants, contains a greater	phates. Rapidly multiplying cells revariety of sugar phosphates (gluchate, fructose-1,6-diphosphate), withan do slowly multiplying cells (for nucleotides, AMP, ADP, ATP, UMP, Ump, Ump, Ump-peptides, UMP-peptides, UDP-peptides, UMP-peptides, UDP-peptides, UMP-peptides,	th low DP, btide le, glucose, anisms
Card 1/2	UDC: 577-1	50.11 06 26

ACC NR: AP6022606 derivatives. Adenylic and uridylic derivatives are predominant; guanylic and cytidylic nucleotides are much less abundant. Rapidly multiplying Chlorella cells contain six times more nucleosideRapidly multiplying Chlorella cells contain six times more nucleosideriphosphates and especially GPT than do slower growing cells. Slowly triphosphates and especially GPT than do slower growing cells. Slowly triphosphates and especially GPT than do slower growing cells. Slowly multiplying cells grown on nitrate have more tives and nucleotide-poptides. Chlorella cells grown on nitrate have more tives and nucleotide-poptides. Chlorella cells grown on nitrate have more tives and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea. Orig. art. guanosine and cytidylic acid derivatives than when grown on urea.



THE RESERVE SERVES

KARDO-SYSOYEVA, Ye.K.; PAKHOMOVA, M.V.

Nature of frost resistance in plants. Fiziol. rast. 7 no.4:423-427 (MIRA 13:9)

1. Yamal Experimental Station of the Far North Scientific-Research Agricultural Institute.

(Plants-Frost resistance)

ACC NR. AP7007507

SOURCE CODE: UR/0444/66/000/005/0035/0038

AUTHOR: Yurina, Ye. V.; Pakh mova, M. V.

ORG: Zoological-Entomological Laboratory, Moscow State University (Zoologo-entomolo-gicheskaya laboratoriya Moskovskogo gosudarstvennogo universiteta); Department of Plant Biochemistry, Moscow State University (kafedra biokhimii rasteniy Moskovskogo gosudarstvennogo universiteta)

TITLE: The effect of nitrogen feeding sources on the growth of the green alga Asteromonas gracilis Artari and its biochemical composition

SOURCE: Moscow. Universitet. Vestnik. Seriya VI. Biologiya, pochvovedeniye, no. 5, 1966, 35-38

TOPIC TAGS: nitrogen feeding, algae, plant growth, plant chemistry, photosynthesis, DNA, RNA

ABSTRACT: Investigations of the effect of nitrogen feeding sources on the growth A. gracilis studied the following indices: growth rate of cultures grown on various nitrogen sources (urea and ammonium nitrate), photosynthesis intensity, and biochemical analysis. Data showed that culture growth rate was significantly higher in the urea culture (20% increase in biomass

Cord 1/3

UDC: 581.133:582.26

ACC NR: AP7007507

quantity) than in ammonium-nitrate cultures. Photosynthesis intensity of A. gracilis increased an average 30% in urea cultures as compared to ammonium-nitrate cultures (see Table 1). It was established that maximum

Table 1. The effect of nitrogen feeding source on the photosynthesis

Culture, number	Seri	ies 1	Series 2		
of cells / 1 cm ³	μ1 0 ₂	X	μ1 O ₂	Z	
C—1·10*	13,5±0,3	100	15,0±0,7	100	
M-1·10°	16, 1 ±0,5	123	20,3±0,5	136	

photosynthetic intensity occurs in the immature period of the culture when its density is small, and that intensity drops significantly as density increases. Data on the chemical composition of algae are presented in Table 2. Quantitative content of RNA changes sharply during culture growth

Card __ 2/3

ACC NR. AP70075	07
-----------------	----

Table 2. Che	mic:	il co	mposi	tior	of	alg	ae (:	ln %	to or	ganic	part	of	algae
Culture, number of cells/1 cm ³	General	Protein	Non- protein	RNA	DNA	Protein	RNA	DNA	Total nucleic acid	Carbohy- drate	General phosphorus	3	Ash content*
M-2·10° M-4·10° C-2·10° C-4·10°	7,90 8,38	6,91 7,20 6,70 7,32	0,70 1,68	0.17 0.57	0,047 0.046	45 0	2 46	0,32 0,28 0,27 0,30	3, 16 1,29 3,73 2,91	6,45 6,59 6,51 7,20	1,15 2 0,84 3 1,28 2 1,21 2	6, IR 3, 4ft	8.93

*Ashes are calculated in % to absolutely dry weight of algae. and development. RNA content is 2.5 times greater in a younger culture grown on urea with 2·10⁶ kl/cm³ density than in a culture with 4·10⁶ kl/cm³ density. A similar reduction of RNA was also noted in ammonium-nitrate cultures. The large quantity of RNA in both investigated cultures with 2·10⁶ kl/cm³ density confirms the higher !evel of biochemical activity in the young algae cells. Quantitative content of DNA, proteins, fats, and polysaccharides neither changes during culture growth nor depends essentially on nitrogen source. Orig. art. has: 1 figure and 2 tables.

SUB CODE: 06/ SUBM DATE: 10Dec65/ ORIG REF: 004/ OTH REF: 002 ATD PRESS: 5117

Card 3 /3

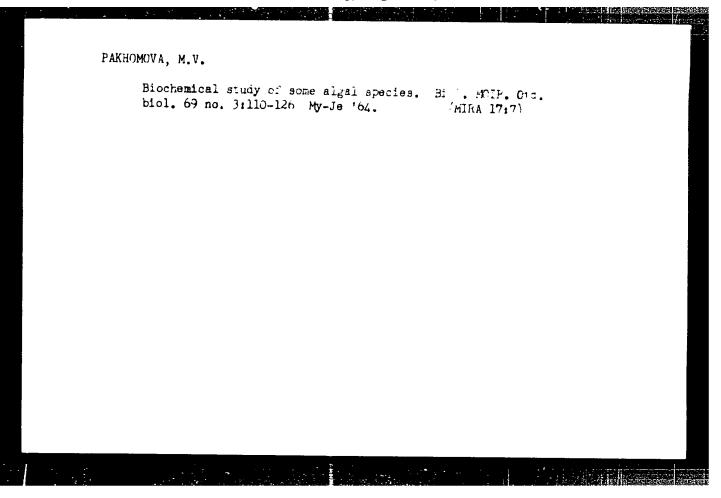
PAKHOMOVA, M.V.; SERENKOV, G.P.

Nucleotide composition of ribonucleic acid in the green algae
Dunaliella salina. Dokl. AN SSSR. 144 no.6:1390-1393 Je '52.

(MIRA 15:6)

1. Moskowskiy gosudarstvennyy universitet im M.V.Lomonosova
Predstavleno akad. A.I.Oparinym.

(Nucleic acids) (Algae)



A STATE OF THE STA

SERENKOV, G.P.; PAKHOMOVA, M.V.

Hucleotide composition of desoxyribonucleic and ribonucleic acids in some algae and higher plants. Nauch. dokl. vys. shkoly; biol. nauki no.4:156-161 '59. (MIRA 12:12)

1.Rekomendovana kafedroy biokhimii rasteniy Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

(Nucleic acids) (Plants--Chemical composition)

Study of the nitrogen complexes of a few diatoms. Vest. Mosk.
un.10 no.12:133-142 D '55.

1. Kafedra biokhimii rasteniy.
(Diatoms) (Algae)

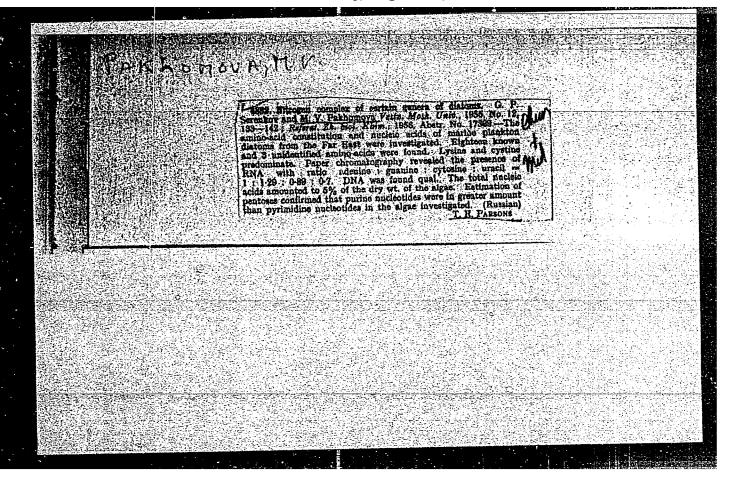
SERENKOV, G.F.; PAKHONOVA, M.V.; BORISOVA, I.G.

Gomparative biochemical study of two species of green algae. Vest. Mosk.

un. Ser. biol., poohv., geol., geog. 12 no.7:77-85 '57. (MIRA 10:12)

1. Kafedra biokhimii rasteniy Moskovskogo gosudarstvennogo universiteta.

(AIGAE)



ACC NR. AP70000572

SOURCE CODE: UR/0218/66/031/006/1237/1246

AUTHOR: Pakhomova, M. V.; Darkanbayeva, G. T.; Zaytseva, G. N.

CRG: Biological Soil Department of the State University im. M. V. Lomonosov, Moscow (Biologo-pochvennyy fakul'tet Gosudarstvennogo universiteta)

TITIE: Effect of light and darkness on the content of acid-soluble phosphor compounds in the green alga Scenedesmus obliquus Kutz

SOURCE: Biokhimiya, v. 31, no. 6, 1966, 1237-1246

TOPIC TAGS: algae, light biologic effect, plant chemistry, plant metabolism, biosynthesis, nucleic acid, phosphate, phosphorylation

ABSTRACT: Levels of acid-soluble phosphor compounds, including inorganic phosphates, phosphorylated sugars and nucleotides, were investigated in green alga Sconedesmus obliquus Kutz grown under dark and light conditions. Light cultures growing in glass flasks on a modified Beneke culture medium with a 1% glucose solution were exposed to fluorescent lighting (1000 to 2000 lux, 25 to 27°) for 24 hrs daily over a 7-day period, and the dark cultures under similar conditions were exposed to darkness for 20 days. Air containing 5% CO2 was blown into the flasks. Daily cell counts were recorded, and following the culture growth periods, the algae were separated from the culture medium by centrifuging. The acid-soluble phosphate compounds were extracted

UDC: 581.132

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012388

PAKHOMOVA, N.B.; ARSAYEV, M.I.; IVANOV, V.F.; KUROCHKIN, S.S.; MAMIKONYAN, S.V.

Apparatus for detecting coincidences of relativistic charged particles. Nauch.-tekh.sbor.Gos.izd-va lit. v old. atom. nauki i tekh. nc.4: 89-98 '62. (MIRA 16:10)

KUROCHKIN, S.S.; MAMIKONYAN, S.V.; PAKHOMOVA, N.B.; SALOV, S.P.; TUCHINA, A.S. New analyzer. Nauch.-tekh.sbor.Gos.izd-va lit. v obl. atom. nauki (MIRA 16:10) i tekh. no.4:61-71 '62.

PAKHOMOVA, N. G. and SKRIPKINA, N. A. (Veterinary Surgeons, Novocherkassk Zooveterinary Institute), RESHETNYAK, V. Z. (Professor).

"To the question of trichomoniasis of domestic fowls".

Veterinariya, Vol. 37, No. 9, p. 41, 1960.

RESHETNYAK, V.2., prof.; PAKHOMOVA, N.G., veterinarnyy vrach;
SKRIPKINA, N.A., veterinarnyy vrach

Trichomoniasis in poultry. Veterinariia 37 no.9:41-44
S '60. (MIRA 14:11)

1. Novocherkasskiy zooveterinarnyy institut.
(Trichomoniasis)
(Poultry—Diseases and pests)

RESHRTWIAK, V.Z., dekter veterinarmyh nauk; PARHONOVA, I.G., veterinarmyy vrach;
LIUTOV, N.F., veterinarmyy vrach; SERIPAINA, N.A., veterinarmyy vrach.

The tick Hymlesma scupense p.sch.as a vecter of the pathegen of anaplasmesis in cettle. Veterinariia 33 ne.9:39-40 S '56. (MIRA 9:10)

1.Nevecherkasskiy zesveterinarmyy institut.
(Anaplasmesis) (Ticks an carriers of disease)

S/0274/64/000/004/B108/B109

ACCESSION NR: AR4041560 SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz'. Svodny*y tom, Abs. 4B674

AUTHOR: Pakhomova, N. L.; Rastegayeva, G. I.

TITLE: Influence of thermomagnetic treatment in weak fields on the anisotropy of manganese ferrite

CITED SOURCE: Tr. Mosk. in-ta inzh. zh.-d. transp., vy*p. 165, 1963, 5-15

TOPIC TAGS: manganese ferrite, anisotropy, weak field, thermomagnetic treatment, hysteresis loop, crystal anisotropy

TRANSPORTATION: Rectangular nature of hysteresis loop is caused by crystal magnetoelectric anisotropy of ferrite. With anisotropy there is also connected time of polarity reversal. Study of influence of thermomagnetic treatment in weak magnetic fields on anisotropy of magnetically-soft manganese ferrite was conducted in magnetic field under two different conditions: above the Curie point and below the Curie

Card 1/2

C STATE SECURIOR

ACCESSION NR: AR4041560

point. 1. $t = 200^{\circ}$ C (purposely below the Curie point for Mn0·Fe₂0₃); external magnetic field H = 1000 oersteds, annealing time $\tau = 32$ hours with subsequent cooling of sample at rate of 1.5° per minute under continuous action of magnetic field. 2. $t = 450^{\circ}$ C (purposely above the Curie point); external magnetic field H = 1200 oersteds; annealing time $\tau = 6$ hours with subsequent cooling of sample at rate of 1° per minute under continuous action of magnetic field. Analysis of curves of momentum taken after heat treatment of sample under condition 1 showed that anisotropy of sample remained constant. Thermomagnetic treatment under condition 2 led to creation of predominant direction of light magnetization along one of the space diagonals of a cube, which is parallel to the field effective during annealing. It is possible to estimate constant of anisotropy evoked by thermomagnetic treatment: $k_T \approx -3.6 \cdot 10^3$ ergs/cm³. Magnitude of this constant is one order less than magnitude of constant of magnetic-crystal anisotropy. Magnetic-crystal anisotropy of manganese ferrite at room temperatures appears noticeable only in fields higher than 1000 cersteds. Ribliography: 10 references.

SUB CODE: MM, SS ENCL: 00

Card 2/2

THE THE SHEET STATES

BRYUKHATOV, N.L.; PAKHOMOVA, N.L.

Isothermal magnetic reversal of iron-nickel ferrites by rotation. Izv. vys. ucheb. zav.; fiz. 8 no.6:130-133 '65.

(MIRA 19:1)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta. Submitted May 23, 1964.

ESD(dp)/IJP(c) D EMT(n)/EMP(t)/EMP(b) 1 21836-65

ACCESSION NR: AT5001333

8/2649/63/000/165/0005/0015

AUTHOR: Pakhomova, N. L., Rastegayeva, C. L.

TITLE: The effect of thermomagnetic processing in weak fields on the saiso-

tropy of manganese ferrite

Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 165, 1963. Nekotoryye voprosy fiziki tverdogo tela (Some problems in the physics of solids), 5-15

TOPIC TAGS: ferrite, mangamese ferrite, ferrite anisotropy, thermomagnetic processing

ABSTRACT: The influence of thermomagnetic processing on the anisotropy of magnetically hard materials (cobalt, cobalt-zinc, and other ferrites) was studied magnetically nary macerials (coosts, coosts, and other lettrees, was scatter by various researchers (e.g., R. F. Penoyer, L. R. Bickford, Phys. Rev., earlier by various researchers (e.g., R. F. Penoyer, L. R. Bickford, Phys., Such 108, no. 2, 271, 1957; S. I. Iida, Appl. Phys., 31, 2515, Suppl., 1960). Such ferrites were annealed in strong (above saturation value) magnetic fields. The present article discusses the influence of thermomagnetic processing in weak magnetic fields on the anisotropy of the magnetically soft MnOFe203. X-ray analyses showed that the sample used was indeed a monocrystal with a somewhat

Cord 1/2

L 21836-65

ACCESSION NR: AT5001333

deformed cubic lattice. The first constant of the magneto-crystalline anisotropy of manganese ferrite has a value of -3·10⁴ erg/cm³. The results showed that the thermomagnetic processing of the sample above the Curie point in weak magnetic fields generated a uniaxial anisotropy along the direction of the external magnetic field active during the annealing process. The anisotropy constant due to the thermomagnetic processing was about -3.6·10³erg/cm³. At room temperatures the magneto-crystalline anisotropy of manganese ferrite appeared noticeably only in fields above 1000 oe. In external fields below 1000 oe one finds mostly the anisotropy corresponding to the geometrical shape of the sample. Finally, thermomagnetic processing did not change the magneto-crystalline anisotropy of manganese ferrite. Orig. art; has: 7 formulas, 8 figures and 1 table.

ASSOCIATION: Institut inzhenerov zhelezhnodorozhnogo transporta, Moscow

(Institut of Railroad Transportation Engineers)

SUMMITTED: 19Jun61

ENCL: 00

SUB CODE: 88, EM

NO REF SOV: 002

OTHER: 008

Cord 2/2

s/0181/64/006/008/2510/2514

ACCESSION NR: AP4043379

AUTHORS: Bryukhatov, N. L.; Pakhomova, N. L.; Potakova, V. A.

TITLE: On the effect of thermomagnetic working on the anisotropy and electric resistivity of iron-nickel ferrites

SOURCE: Pizika tverdogo tela, v. 6, no. 8, 1964, 2510-2514

TOPIC TAGS: magnetic anisotropy, ferrite material, electric re-Bistivity, orientation, metalworking

ABSTRACT: In order to ascertain which ions participate in the production of the preferred orientation in thermomagnetic working of iron-nickel ferrites with a small excess of iron, the authors investigated single-crystal and polycrystalline samples for anisotropy and electric resistivity. The investigations reported to date do not indicate the mechanism whereby induced uniaxial magnetic anisotropy is produced by thermomagnetic working. The methods of

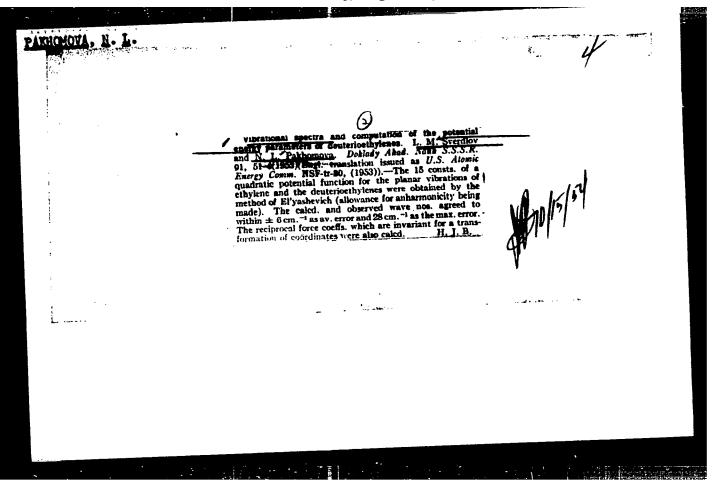
Cord 1/3

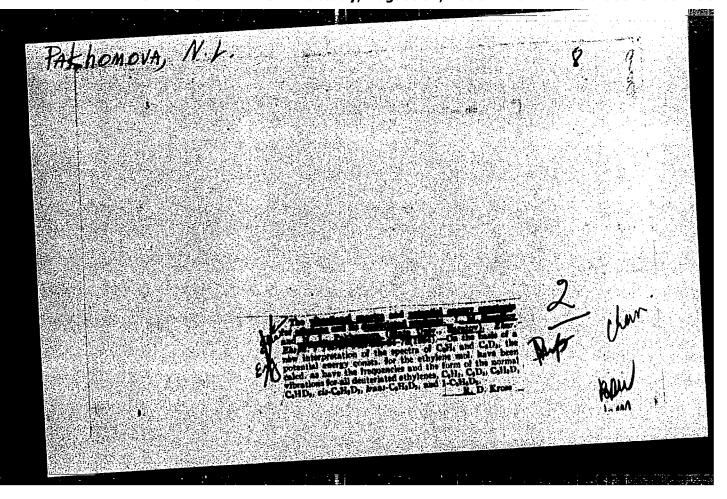
ACCESSION NR: AP4043379

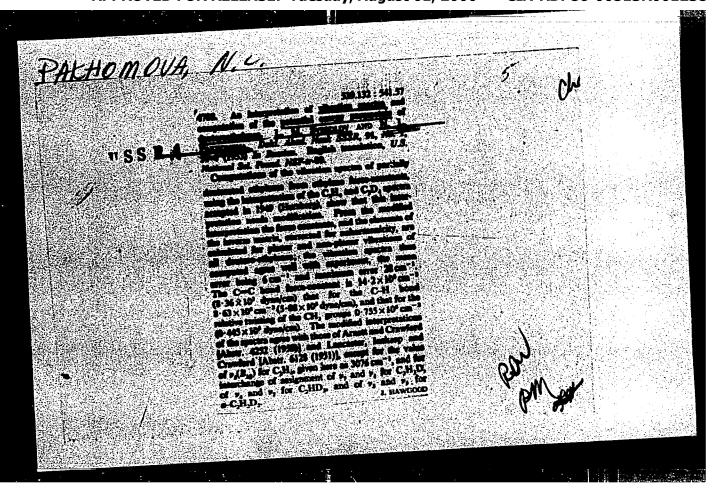
producing the samples and their compositions are described. The magnetic crystalline and induced anisotropies were investigated by a torque method, and the electric resistivity was measured by a two-probe compensation method. The results show that during the course of the thermomagnetic working of the ferrites pairs of magnetically-interacting ions become oriented along the tetragonal axis of the spinel lattice, and this results in the induced magnetic anisotropy and in a reduction of the electric resistivity. The induced anisotropy increases with the increasing content of Fe2+ ions. The main role in the orientation process is played by the Fe2+ ions, since the orientation produced by diffusion of the ions. The electric resistance tests show that samples which do not have many ions of Fe²⁺ do not respond to thermomagnetic working. When these ions are present, the thermomagnetic working reduces the electric resistivity. The change in electric resistivity is thus also connected with the ordering of the Fe2+ ions. Orig. art. has: 3 figures, 3 formulas, and 3 tables.

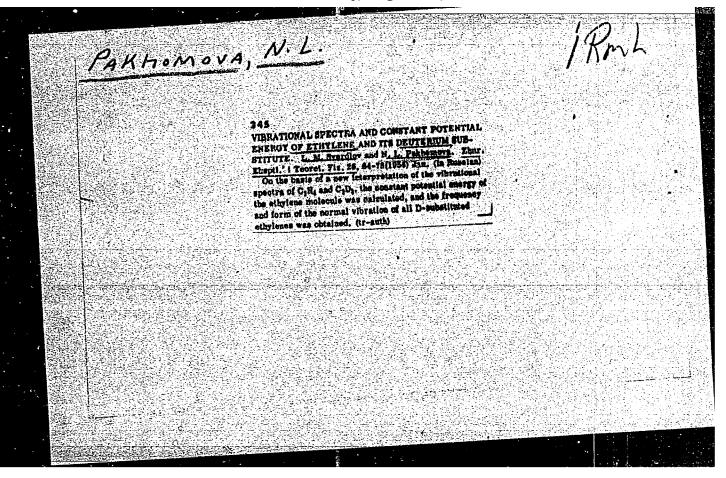
Cord 2/3

ASSOCIATION: Moskovskiy institut inzhenerov zheleznodorozhnogo ACCESSION NR: AP4043379 transporta (Moscow Institute of Railway Transport Engineers) OTHER: 007 23Dec63 SUBMITTED: NR REF SOVE 001 88 SUB CODE: 3/3 Card









USSR/Physics - Oscillatory Spectra, 1 Jul 53 Deuterium

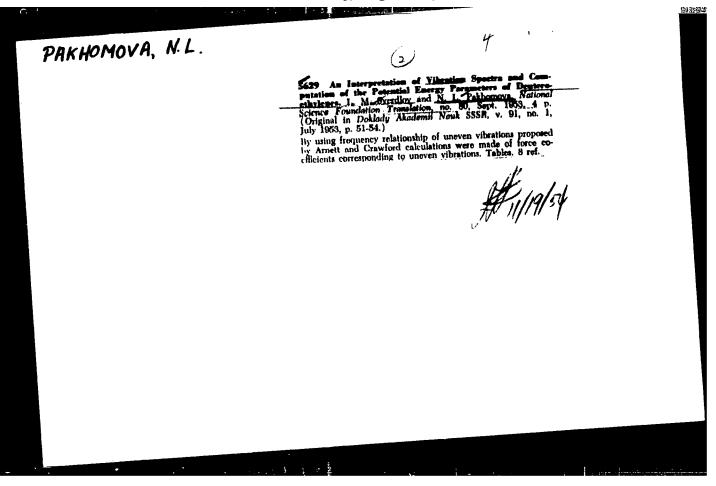
"Interpretation of Oscillatory Spectra and Computations of Constants of Potential Energy of Deuteroethylenes," L. M. Sverdlov, N. L. Pakhomova, Saratov State U im Chernyshev

DAN SSSR, Vol 91, No 1, pp 51-54

Computed frequencies of deuteroethylenes by method of Yel'yashev (M. V. Volkenshteyn, M. A. Yel'yashev et al, "Kolebaniya Molekul" (Molecular Oscillations) (1949)) and used experience by

266**T**95

previous writers (R. Arnett, B. Crawford, J Chem Phys 18, 118 (1950)). Compare computed and observed results in tables. Presented by Acad G. S. Landsberg, 7 May 53.

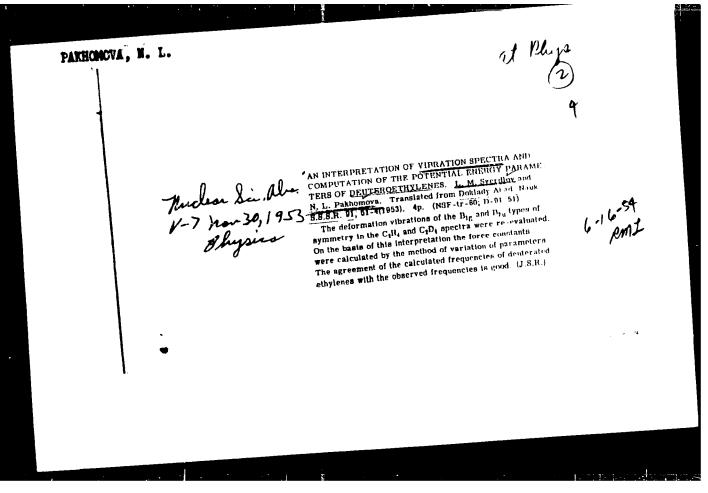


BRYUKHATOV, N.L.; PAKHOMOVA, N.L. Induced anisotropy in crystals of iron-nickel ferrites with an excess of iron. Kristallografiia 9 no.4:521-526 Jl-Ag 164. 1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta,

SVERDLOV, L.M.; PAKHOMOVA, N.L.; LANDSBERG, G.S., akademik.

Interpretation of vibration spectra and computation of the permanent potential energy of deutere-ethylenes. Dokl. AN SSSR 91 ne.1:51-54 (MLRA 6:6) n '53.

1. Akademiya nauk SSSR (for Landsberg). 2. Saratovskiy gosudarstvennyy universitet im. N.G.Chernyshevskoge.



PAKHOMOVA, N. L.

USSR/Physics - Oscillatory spectra of ethylene

Card 1/1

Author : Sverdlov, L. M., and Pakhomova, N. L.

Title : Oscillatory spectra and potential energy constants of ethylene and its

deuterium substitutions

Periodical : Zhur. eksp. i teor. fiz. 26, 64-78, Jan 1954

Abstract : On the basis of the new interpretation of the oscillatory spectra of abstract : On the basis of the new interpretation of the oscillatory spectra of a spectra of the potential energy constants of

C2H₄ and C2D₄ the author computes the potential energy constants of the ethylene molecule. Also calculates the frequencies and forms of the normal oscillations of all the deuterium ethylenes. Demonstrates the faultiness of the interpretation of Gallaway and Barker, as followed by M. V. Vol'kenshteyn, M. A. Yel'yashevich, B. I. Stepanov, and G. Gertsberg. Establishes a new theoretical basis of interpretation. Employs the Mayants method of iteration for the calculation of frequency

and form of normal oscillations.

Institution : Saratov State University

Submitted : July 6, 1953

DOURCE CODE: Un/ODOO/66/COO/COO/COO/COO/ODO/ DOURCE CODE: Un/ODOO/66/COO/COO/COO/COO/ODO/ DOURCE: STYPHINGTON, N. L.; Pakhemova, N. L. Die: none TITLE: Inductive anisotropy in iron-nickel ferrites with migh concentration of mickel STREE: Vesesphinoye severichaniye po ferritam. 4th, Minck. Finicheskiye 1 STREE: Ves
CC NR: ATEOLOgy (Contractor) (C
CC NR: ATEOLOgy (Contractor) (C
Divide: dryamatov, N. L.; Pakaemova, N. L. Divide: none Title: Inductive anisotropy in iron-nickel ferrites with high concentration of rickel events: Vectorizatione sovecaclarity po ferritam. 4th, Minsk. Finichesery 1 events: Vectorizatione sovecaclarity po ferritam. 4th, Minsk. Finichesery of
TITLE: Inductive anisotropy in iron-nickel ferrites with high concentration of nickel miles: Inductive anisotropy in iron-nickel ferrites with high concentration of nickel miles: Vegescontancy soveraclanity po ferrites. 4th, Minsk. Finicheskiy in expense. Vegescontancy soveraclanity po ferrites and physicochemical projects of expense. Vegescontancy soveraclanity (Physical and physicochemical projects)
TITLE: Inductive anisotropy in iron-nickel ferrites with high concentration of nickel miles: Inductive anisotropy in iron-nickel ferrites with high concentration of nickel miles: Vegescontancy soveraclanity po ferrites. 4th, Minsk. Finicheskiy in expense. Vegescontancy soveraclanity po ferrites and physicochemical projects of expense. Vegescontancy soveraclanity (Physical and physicochemical projects)
empore Vansagramoye saveshallow (Anyulan and physical and physical 1966, 103-107
empty. Vsassymmoye sovesnounced (Anyu.ca. and physical 1966, 103-107
empty. Vsassymmoye sovesnounced (Anyu.ca. and physical 1966, 103-107
The Administration of the Sovernonaniya. Minuka Manka i toundary
forrites); Gowland South Control of the Control of
1 1 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
TOPIS TROS: Ferrite, magnetic distributions field ASSIMOT: The mechanism involved in the development of monoaxial induced anisotropy ASSIMOT: The mechanism involved in the development of monoaxial induced anisotropy ASSIMOT: The mechanism involved in the development of monoaxial induced anisotropy ASSIMOT: The mechanism involved in the development of monoaxial induced anisotropy ASSIMOT: The mechanism involved in the development of monoaxial induced anisotropy ASSIMOT: The mechanism involved in the development of monoaxial induced anisotropy ASSIMOT: The mechanism involved in the development of monoaxial induced anisotropy ASSIMOT: The mechanism involved in the development of monoaxial induced anisotropy ASSIMOT: The mechanism involved in the development of monoaxial induced anisotropy ASSIMOT: The mechanism involved in the development of mid.700001.12Fo2.070 ASSIMOT: The mechanism involved in the development of mid.700001.12Fo2.070 ASSIMOT: The mechanism involved in the development of mid.700001.12Fo2.070 ASSIMOT: The mechanism involved in the development of mid.700001 ASSIMOT: The mechanism involved in the development of mid.700001 ASSIMOT: The mechanism involved in the development of mid.700001 ASSIMOT: The mechanism involved in the development of mid.700001 ASSIMOT: The mechanism involved in the development of mid.700001 ASSIMOT: The mechanism involved in the development of mid.700001 ASSIMOT: The mechanism involved in the development of mid.700001 ASSIMOT: The mechanism involved in the development of mid.700001 ASSIMOT: The mechanism involved in the development of mid.700001 ASSIMOT: The mechanism involved in the development of mid.700001 ASSIMOT: The mechanism involved in the development of mid.700001 ASSIMOT: The mechanism involved in the development of mid.700001 ASSIMOT: The mechanism involved in the development of mid.700001 ASSIMOT: The mechanism involved in the development of mid.700001 ASSIMOT: The mechanism involved in t
he ship of a neglection of a neglection of anterest as very fracture; ents
of a space (and - and fermion have the first of englow in the first of englowers),
acous sums:
of the first the first treatment described of the first average from the first treatment described of the first average from the first av
about this proceed in respect to [0017] are given and analyzed. It is suggested that
curves of the membertum before and are given and analyzous
the specimen was subjected to a thermomagnesis in the planes [100] and [110] that subjected that curves of the momentum before and after treatment in the planes [100] as suggested that various angles with respect to [001] are given and analyzed. It is suggested that
Cord 1/2

L 10757-67

ACC NR. AT6020979

during the thermomagnetic treatment of iron-mickel ferrites with a low concentration of fer ions an orientation of the ferrous ion pairs occurs. The axes of the interacting pairs are located along edges of a cube. Thus, the ferrous ions form a simple cubic lattice. Quantitative distribution of the ion pairs is determined by the angles between the magnetic field and the edges of the cube. The monocrystalline specimen employed in this study was prepared by T. M. Perekalina in the Crystallographic Institute, AN SSSM. Orig. art. has: 9 figures.

SUB CODE: 11, 20/

SUBM DATE: 22Dec65/

OTH REF: 007

	EPF(n)-2/EWT(m)/EWP(b)/EWA(d)/EWP(t) Pn-4 IJP(c) JD/JG/WB 3 / 8/50014359
	TJP(c), JD(JG/WB 2)
	(FWP(b)/EWA(d)/EWP(1)076/65/039/001/0181/0104
25638-65	EPF(n)-2/EWI\W//201
ACCESSION NR	No fedova, I. D.; Krasil'shchikovi
	N. M.; Maksimova, N. P.; Melania
AUTHOR: Pak	AP5004359 iomova, N. M.; Maksimova, N. P.; Nefedova, I. D.; Krasil'shchikov,
	lic behavior of <u>titanium-niobium</u> alloys
TITLE: Anoc	ic behavior of transmir. v. 39, no. 1, 1965, 181-184
COURCE: Zh	irnal fizicheskoy killar,
TOPIC TAGS:	titanium, ortaina alloy passivation
alloy anodi	titanium, titanium behavior, alloy passivation behavior, alloys in 5N H ₂ SO ₄ at 25C has been investi-
建筑,是是 到5	andic hehavior of 11-10 all the density of the critical Fig. 1 of
ABSTRACT:	titanium, alloy passivation behavior, alloy passivation in 5N H ₂ SO ₄ at 25C has been investing the anodic behavior of Ti-No alloys in 5N H ₂ SO ₄ at 25C has been investion the anodic behavior of Ti-No alloys in 5N H ₂ SO ₄ at 25C has been investion the anodic behavior of Ti-No alloys in 5N H ₂ SO ₄ at 25C has been investion of the critical passivations of 2 and 10% No decrease the density of the critical passivations of appreciably affect the current and the critical passivations of the critical passivations.
PACEU.	- Long for Unative annientably of the consession
purrent 14	these acc who decreases these accidents
fue Fuctor	region. An author the current in the restine values,
denaro, chri	om 222 pamp/cm these additions do not apply the critical poure). However, these addition of 35% Nb decreases the critical poure). However, these addition of 35% Nb decreases the critical poure. It has passive region. It has passive region. It has been also the current in the passive region. It has been also the current in the passive region. It has a pour positive values, and density to 7.5 pamp/cm² and also the current in the passive region. It has a pour positive values. It has a pour positive values. The passive region. It has a pour positive value pour positive values. It has a pour positive value pour positive values. The passive region. It has a pour pour positive values. The passive region. It has a pour pour pour pour pour pour pour pour
CONTRACTOR	相手就要到了这些问题。她看了这个人 们是这个女女们以 是一种的一种的,我们的这些人的,我们也没有一种的,我们也是这些人的。我们,我们也不是一个一个一个一个一个一个一
from -0.3	ent density to 7.5 namp/cm and also more positive ent density to 7.5 namp/cm and also more positive ent density to 7.5 namp/cm and also more positive ent density to 7.5 namp/cm and also more positive more positiv
negative.	ong. ar ""
Card 1/3	

. 25638-65 Accession NR	AP5004359			1
ASSOCIATION:	Gosudarstvennyy en Industry)	institut azotnoy promys)	ilennosti (<u>State Ins</u> i	<u>itute</u>
oubmitted;	9Dec63	ENCL: O1	SUB CODE:	MM
O REF SOV:	00li	OTHER: 003	ATD PRESS: ;	3185
		1.9 Telephone (1.9)		
rd 2/3				

CHEST HATCHEST HERE THE PROPERTY OF THE PROPER

PAKHOMOVA, N. V.

PAKHOMOVA, N. V.: "The power engineering of certain processes in solutions of hypochlorites." Min Higher Education USSR. Leningrad Order of labor Red Banner Technological Inst imeni Leningrad Soviet. Leningrad, 1956. (DISSERTATION FOR THE DEGREE OF CANDIDATE IN CHEMICAL SCIENCE)

So.: Knizhnaya letopis' No 15, 1956, Moscow

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

50V 79-3-8-10 48 Flis, I. Ye., Mishchenko, K. ... AUTHORD: Paknomova, N. Y. The Thermoonemistry of the Eissociation of Sulfaria Acid and TITLE: Hypochicrous Acii in Aquecus Colutions (Termokhimiya lissots stall sernoy i khlornovatistoy kislet v volnom rastvore) Zhurna! neorganicheskoy khimii, 1958, Vol. 3, Nr 8, PERIUDICAL: pp. 1772-1780 (USUR) By means of thermocnemical tests the reaction of solutions of ABSTRACT: sodium nypochloride with sulfuric acid was investigated. The heat effect of the reaction $ClO^+ + H^+ \longrightarrow EClO$ and $OH^{-} + HSC_{\Lambda} \longrightarrow SO_{\Lambda}^{2} + H_{2}O$ was calculated. The thermochemical investigations of the processes in hypochloride solutions were combined with a calorimetric and potentiometric methol This method is also applicable in the investigation of thermochemical reactions with other instable systems. The potentio metric determinations were performed with platinum electrodes and their results make it possible to correct the values found Card 1/3

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

30V 78-3-8-10 48 The Thermochemistry of the Dissociation of Sulfuric Acid and Hypochlorous Acid in Aqueous Solutions

> by the thermochemical analysis. The heat effect of the neutralization of ailuted solutions of sulfuric acid at 25, 35 and 50°) was determined. From the data the dissociation constant of HSO was computed. The average of the computed heat effect for the corresponding temperatures is the

following: At 10° C = -15,01 = 0,04 kcal/gram equivalent,

at 25° c = -15.74 - 0.04 kcal/gram equivalent,

at 35° C = -15.61 ± 0.08 kcal/gram equivalent.

at 50° C = - 15,32 $\stackrel{+}{-}$ 0,04 kcal/gram equivalent The dissociation heat of the chloric acid in aqueous solutions was investigated. From the experimental results the thermodynamic characteristic of this process in the temperature range of 10 - 5000 was found:

At 10° C = 5.90 ± 0.05 kcal/mol

at 25° 0 = 5,70 $\stackrel{+}{=}$ 0,04 kcal/mol at 35° 0 = 5,40 $\stackrel{+}{=}$ 0,05 ksal/mol

Card 2/3

The Thermochemistry of the Dissociation of 209/78-3-8-1, 4% Sulfuric Acid and Hypochlorous Acid in Equeous Solutions

at 50° 0 = 5.0 ± 3.04 kcsi/mol.

The dissociation process of the chioric acit is of an endo

thermic nature

There are 5 figures, 5 tables, an: 27 references, ' of which

are Soviet.

SUBMITTED: July 10, 1957

Card 3/3

SOV/78-3-8-11/48

AUTHORS:

Flis, I. Ye., Mishchenko, K. P. rakhomova, N. V.

TITLE:

The Calculation of the Fundamental Thermodynamic Values for ClC and HClC at 25 Centigrade (Vychisleniye osnovnykh termodinamicheskikh velichin dlya ${\rm ClC}_{\rm aq}^{-}$ i ${\rm HClO}_{\rm aq}$ pri ${\rm 25}^{\circ}$)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol. 3, Nr 8,

pp. 1781-1784 (USSR)

ABSTRACT:

Thermochemical testings were performed of the reaction $C10 + H_20$ aq $+ H_20 + C_2$ at 10, 25, 35, and 50° aq $+ H_20$ aq $+ H_20$ at 10, 25, 35, and 50° centigrade. The results obtained at 25° centigrade were used for the calculation of the calorimetric 'estings. Based on their own results the fundamental thermodynamic values for ClO aq and HClO at 25° centigrade were calculated:

 $\Delta H^{\circ}_{298(C10_{aq}^{\circ})} = -25,73 \text{ kcal/g-ior.}$

 $\Delta H_{298(HC10_{aq})}^{\circ} = -31,37 \text{ kcal/mol}$

 $\Delta Z^{\circ}_{298(\text{HClO}_{8q})} = -19,17 \text{ kcal/mol}$

Card 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012388

The Calculation of the Fundamental Thermodynamic Values for ClO and at 25 Centigrade

$$\Delta Z^{\circ}_{298(C10^{\circ}_{aq})} = -9,21 \text{ kcal/g-ion}$$

$$s^{\circ}_{298(HC10^{\circ}_{aq})} = 25,84 \text{ E.ye.}$$

$$s^{\circ}_{298(C10^{\circ}_{aq})} = 11,36 \text{ E.ye.}$$

There are 2 tables and 16 references, 12 of which are Soviet

SUBMITTED: June 10, 1957

Card 2/2

THE REPORT OF THE PROPERTY OF

(MIRA 15:3)

KLEBANOV, G.S.; NAYDIS, F.B.; PAKHOMOVA, N.V..

Extraction of bromine from waste products of synthomycin

production. Med. prom. 16 no.1:28-34 Ja '62.

l. Leningradskiy khimiko-farmatsevticheskiy institut.
(BROMINE)
(CHLOROMYCETIN)

FLIS, I.Ye.; MISHCHENKO, K.P.; PAKHOMOVA, N.V.

Thermochemistry of dissociation of sulfuric and hypochlorous acids in aqueous solutions. Zhur. neorg. khim. 3 mo.8:
1772-1780 Ag '58. (MIRA 11:9)
(Sulfuric acid) (Hypochlorous acid) (Thermochemistry)

```
FLIS, I.Ye.; MISHCHEMEO, E.P.; PARHOMOVA, N.V.

Calculations of the important thermodynamic quantities for ClOma and HClOma at 25°C. Zhur. neorg. khim. 3 no.3:1781-1784 ag '58.

(Hypochlorous acid)

(Hypochlorous acid)
```

PAKHEMOVA 05.

Category : USSR/Optics - Physical Optics

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4938

Shklyarevskiy, I N , Miloslavskiy, V.K., Pakhomova, O.S., Ryazanov, A.N.

: Interferometric Method for Determining the Dispersion of Liquids in the Author Title

Ultraviolet Region

Orig Pub : Uch. zap. Khar kevsk. un-ta, 1955, 6, 147-150

Abstract : The previously described (Referat Zh. Fizika, 1955, 23123) interferometric method for determining the dispersion of liquids and solids, based

K-5

on the application of the lines of equal chromatic order, has been expanded to determine the dispersion of liquids in the ultraviolet region. The investigated liquid is introduced into a gap between aluminized quartz plates, which are attached to the slit of an ISP-22 quartz spectrograph. The thickness of the gap is regulated by means of screws. The resultant spectrogram is used to determine the wavelengths of many interference lines, to determine their interference order, and knowing the thickness of the gap, to calculate the index of refraction for many wavelengths. The order of the interference is determined by filling the gap half with

: 1/2 Card

Category : USSR/Optics - Physical Optics

K-5

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4938

liquid and half with air and obtaining on the spectrogram two systems of lines. The accuracy of the measurement is 5×10^{-4} . The above method requires small amounts of substance and is applicable to absorbing liquids.

Card : 2/2

PAKhenceit

AUTHORS: Broude, V.L., Pakhomova, O.S. and Prikhot'ko, A.F.

Effect of deformations on the spectra of crystals. TITLE: (Vliyaniye deformatsiy na spektry kristallov).

PERIODICAL: "Optika i Spektroskopiya" (Optics and Spectroscopy), 1957, Vol.2, No.3, pp.323-329 (U.S.S.R.)

ABSTRACT: Deals with the effect of planar tension on the absorption spectra of benzene, naphthalene, anthracene and CdS at the liquid hydrogen temperature (20.4 K). The sample were thin films held in a crystal holder. The assembly had a quartz lens for photographing spectra of various parts of the sample. The whole assembly was rotatable and was placed in a cryostat with quartz windows. The spectra were obtained with a quartz spectrograph whose dispersion was 2.9 %/mm at about 2600 A. To study the CdS spectra glass optical parts were used. An Iceland spar polarizer made it possible to obtain simultaneously spectra for two mutually perpendicular directions of the electric vestor vibrations. A krypton lamp was used as a source and the iron spectrum for cali-Naphthalene crystalline films rigidly fixed between two quartz plates behaved differently for different thicknesses of the film. Above 2-3 μ thickness these films cracked on cooling to 20.4 K. Thinner films exhibited

Card 1/3

Effect of deformations on the spectra of crystals. (Cont.) spectral displacement towards ultraviolet when compared with freely supported samples. This spectral displacement was accompanied by widening and weakening of bands and strong polarization of the originally weakly polarized "molecular" M bands (see the preceding paper). If the films were very thin (0.01 µ) only the spectral displacement occurred. Similar behaviour with strongly developed polarization effects was observed for anthracene films. Benzene films also behaved essentially in the same way as naphthalene but both the spectral displacement and polarization effects occurred only in thin $(0.2 - 0.5 \mu)$ films. In CdS displacement and intensity redistribution of absorption lines occurred for crystals under tension. The explanation of these effects lies in the large difference of linear thermal expansion coefficients of the quartz holders (2 x 10-7 deg-1) and of the organic crystals (1-2 x 10-4 deg-1). Cooling to 20.4 K from room temperature produced an extension of 5% in the rigidly held crystal films. In thicker films the extension is non-uniform across the sample thickness being largest at the planes of contrct with the quartz plates. This non-uniformity which produces lattice distortions, accounts for the displacement, weakening and widening of

Card 2/3

PARHOMOVA, O.S

· AUTHORS:

Bragin, O. V., Broude, V. L., Hotova, S. V., Libermen, A. L.

TITLE:

Pakhomova, O. S., and Pryanishnikova, M. A.

Spectral Method of Determination of the Number and Position of Side Chains in the Melecules of Benzene Homologues (K voprosu o spektral nom metode ustanovlenija chielo i pelezbenija

bokovykh tsepey v molekulakh gomologov benzolu)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 116 , Nr 6, pp. 961 - 964 (USSE)

ABSTRACT:

In an earlier work the second author and the fourth one have shown that the ultraviolet absorption spectra of crystals of benzene homologues at 77 K (= temperature of liquid nitrogen) may be used for the purpose mentioned in the title. The result may be obtained quickly and by a small quantity of substance (some hundreth grams). These spectra consist of series of narrow strips which are, in compounds with the same position of the side chains, of the same type, independent of the length and the ramification of these chains. If the spectra of these compounds which have a similar substitution type within the molecules are put together, such as the first absorption strips (corresponding to the pure-electronic transition) lie together, also the following will do the same. Therewith also the relative strip-intensities are reproduced. This phenomenon was proved on a great number of examples of the monoral syltennene-order,

Card 1/3

20-6-19/42

Spectral Method of Determination of the Number and Position of Size Chains in the Molecules of Benzene Homologues

as well as for some simplest o- and p-dialkylbenzenes. In the present work further informations on the affirmation of the regularity mentioned are quoted. The physical characters of the hydrocarbons investigated are concentrated in table 1. It has been pointed out that the same spectrum type with the growing side chain length will be preserved. (1, 2, 4-trialkylbenzene - figure 1 A). The correspondence of the spectra of p-di-isopropylbenzene and p-xylene confirms the fact that the state branched out of both chains does not influence the position of the absorption bands. This analogy also is retained for the case that a double-binding, which is not conjugated with the benzene nucleus, is introduced into a side chain. (Comparison of ethyl- and propyl-mesitylenes - figure 1 B). Quite another picture with allyl-mesitylenes will be at an immediate conjugation of the double-binding with the benzene nucleus. So, the absorption spectrum of the 2-methyl--phenylpropene-1 also is interrupted in the temperature of the nitrogen. Here the absorption intensity is much higher, than in the case of all the other investigated substances. In spite of a same symmetry of the spectra of alkyl- and alkylene-mesitylenes (figure 1 B) and of monoalkylbenzenes (figure 1 G) an essentially dif-

Card 2/3

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

EROUIS, V.L.; TEREMENKO, V.V. [IBremenko, V.V.]; MEDVELLEV, V.S.;
PAKHOMOVA, O.S.; PRIKHOT'KO, A.P.

Effect of deformations on the electron spectra of crystals [in Ukrainian with summary in English]. Ukr. fiz. zhur. 3 no.2:232-238
Mr-Ap '58.

(MIRA 11:6)

1. Institut fiziki URSR.
(Crystals--Spectra) (High pressure research)

WIFFGS:

Broads, V.L., Izasilevich. Tonke, Livering and Communication

P. A. GLOTE, O.S., Polineta, A.F., and the obliging and

TITLE:

On Electron Spectra of Arothein Hydrothicus and Sir and Su-Derivatives at 200k (Ob elektron, yah spectrall, architecture) unleved orodov i ikh deyterirovannyah proizvodnyah ri 100k,

FI HODISAL:

Optika i Spakiroskopiya. 1958, Vol 5, Nr 2, pp 110-1714 (1955)

ABSTRAJT:

The present paper is the first of a series on the alleravial absorption spectra of deuterated compounds and the endpoint molecular and crystal structure produced by douter. The he hyperfine structure and to observe the small rectopic a measurements were made at 20°K. The work reports the extension of the application of the deuteration to the extension of the application of the deuteration to the isotopic exchange of hydrogen with liquid countries for a solution of KND2 in require had (defs 4-10). In the last of the deuteration of the deuteration of the deuteration of the countries for the deuteration of the deuteration of the countries of the c

34rd 1/3

阿姆斯科斯 建基本的 医

2C+ 12-1- -

On Blocken Spectra of Aromatic Hydrocarbons and their Jouterand Paris. I to

calculation of the number of replaced hydrogen atoms H i ... coloculo. The last column of Table 1 shows that the new only a little from the total number of hydrogen weeks in solecule in question. The following hydrocarbons were is the benzene, tourene, m-xylene, n-xyrene, mesitylene, durene, . . maphthalene, gionanthrene, diphenyl. The constants, such that boiling reinal and fractive index, of the original and for some substances are given in Table 2. Using polarized light the obtained the siection spectra of the crystals listed in Ix ... (oon in destorates and non-amitorated forms, measurements at 200K and the results are slown in Figs 1-7. The specific produced by discorption are due, firstly to changes in the outrant of molecules, and secondly to thanges in the crystal strangers. first produce spectral shifts towards the short wavelength by the product of the contract of t 100-200 cu⁻¹ and a decrease of frequencies of the holouthar district the ty a factor of 1.04-1.15. The crystal structure changes a control the polarization ratios for the absorption bands and in the case of spacing between strongly polarized bands. A.L. Libernan (Inclined). Ordinate Chemistry, Academy of Sciences of the U.S.S.R., propulse from Con zone and alm librationes. A.I. Shavenshteyn and Ye.A. Itraile and

Jard 2, 5

SOV/51-5-2-3/26

On Electron Spectra of Aromatic Hydrocarbons and their Deuterated Derivatives at 20°K

(Physic O-Chemical Institute imeni Karpov) prepared deuterated compounds. V.L. Broude, M.I. Onopriyenko, O.S. Pakhomova and A.F. Prikhot'ke (Institute of Physics, Academy of Science of the Ukrainian S.S.R.) obtained and interpreted the electron spectra. The authors thank Yu. Antonchik for density measurements of the deuterated hydrocarbons and P. Manochkina for help in deuteration of the hydrocarbons. There are 7 figures, 2 tables and 16 references, 14 of which are Soviet, 1 American and 1 English.

ASSOCIATION: Institut fiziki AN UkrSSR; Fiziko-khimicheskiy institut im. Karpova (Institute of Physics, Academy of Sciences of the Ukrainian S.S.R.; Physico -Chemical Institute imeni Karpov)

SURLITTED: July 16, 1957

1. Hydrocarbons-d--Spectrographic analysis 2. Ultraviolet spectrum Card 3/3 --Applications

SOV/51-5-2-4/26

Brodin, M.S., Pakhomova, C.S. and Prikhotiko, A.F. ATITHORS:

Absorption of Light by Stilbene Crystals at 200K (Pogloshchemiye sveta TITLE:

kristallami stil'bena pri 20°K)

Card 1/2

FERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Nr 2, pp 123-127 (USSA)

The authors obtained and analysed the absorption spectrum of crystalline stilbene at 200K. The crystals were prepared by ABSTRACT:

sublimation and were attached to quartz glass plates. The spectra were photographed in polarized light using an ISP-22 quartz spectrograph. A hydrogen lamp with a "uviol" window or a krypton

lamp GSVD-120 were used as light sources. Iron spectrum was used for calibration. A FEU-18 photomultiplier was used as the receiver. Photographs of the two polarized components of the absorption spectrum (at 20°K) of a stilbene monocrystal, 0.2 p thick, are shown in Fig 1. Fig 2 gives the absorption curve of a stilbene crystal at 20.40K for vibrations parallel to the N_p axis. Fig 3 gives the absorption spectra of a stilbene crystal (curve 1) and a solid solution of stilbens in tolane (curve 2) at 20°K (vibrations

parallel to the Ng axis). The authors make the following deductions from Fig 3. (1) The intensity of the first (purely electronic, band,

as compared with the other bands, is considerably greater in the

Absorption of Light by Stilbene Crystals at 200K

SOV, 5 .- 5-2-4/26

crystal spectrum than the intensity of the corresponding band in the solid solution spectrum. (2, 770 cm vibration frequency is present in the pure crystal spectrum. The same vibration has a frequency of 745 cm⁻¹ in the solid solution of stilbene in dibenzyl but it is absent in the solid solution of stilbene in tolane. (3) The bands corresponding to the harmonics of the 1590 cm-1 vibrations are stronger than the fundamental bands in the $N_{\rm g}$ -component of the pure crystal spectrum, but they are weaker in the solid solution spectra. The authors used crystals in optical contact with quartz plates or layers produced by melting between two quartz plates. In both cases cooling to the liquid-hydrogen temperature produced considerable mechanical strain due to the difference between the thermal expansion coefficients of quartz and stilbane. Such strains affect polarization of separate bands and their spectral position. The vibrational structure, however, is practically unaffected but the purely electronic bands are altered considerably and this has to be allowed for in making of any deductions There are 3 figures and 5 Soviet references.

Card 2/2

ASSOCIATION: Institut fiziki, AN UkrSSR, g. Kiyev (Institute of Physics, Academy of Sciences of the Ukrainian S.S.R., ...yev) 1. Stilbene crystals -- Preparation

SUBLITTED:

September 14. 1957 2. Single crystais--Spectrographic analysis

EWT(1)/EWT(=)/EWP(t)/EWP(b) IJP(c) JD/WW/GG ACC NR: AP6001644 SOURCE CODE: UR/0051/65/019/006/0916/0922 53. 129 AUTHOR: Prikhot'ko, A. F.; Pakhomova, O. S. ORG: none 21,44,55 TITLE: Absorption of light by alpha-oxygen in the 34,000-41,000 cm-1 region at 4°K SOURCE: Optika i spektroskopiya, v. 19, no. 6, 1965, 916-922 TOPIC TAGS: absorption spectrum, oxygen, cryogenics, molecular physics, LIGHT ABSORPTION ABSTRACT: The absorption spectra of crystalline oxygen were photographed by using layers of condensate produced by cooling a stream of gas on a collector which was cooled by liquid helium. The collector was a flat quartz window and the cooled layer was located in the vacuum chamber of a cryostat. Quarts spectrographs with low dispersion were used. The light source was a krypton lamp. A comparison of crystal spectra showed that most of the absorption in the 34,000-41,000 cm-1 region is due to excitation of molecules to the 312 state. A transition which is forbidden in the free molecule appears in the spectra of condensed phases as a forced dipole transition. The vibrational levels in the spectra of the crystal and gas are tabulated Card 1/2 UDC: 535.3473 : 546.21

ACC MR: AP6001644 and the positions of the pure electron transitions are calculated. The greatest differences between the crystal and gas spectra are in the fine structure of the members of the principal and subordinate series. Each electron-vibrational gas absorption line in the crystal shows a triplet of narrow lines accompanied by satellites. The absorption intensity in the \$2-\frac{1}{2}\transition of the 02 molecule is extremely low in the gas at normal pressure and is linearly pressure-dependent at low pressures; in the compressed gas, the absorption intensity increases as the square of the pressure; in the crystal, the absorption intensity is extremely high-equivalent absorption layers of gaseous oxygen at normal pressure and crystalline oxygen differ by a factor of 5,000. The mechanism responsible for these phenomena is exchange interaction which is extremely active due to the participation of molecules in the \$\frac{3}{2}\trace state. Orig. art. has: 3 figures, 2 tables. SUB COIE:07,20/ SUBH DATE: O3Aug64/ ORIG REF: 000/ OTH REF: 006

32897

\$/044/61/000/012/053/054 0-11/0222

16.6500

Pakhomova, V. A.

AUTHOR: TITLE:

The graphic determination of partial derivatives of

some functions of several variables

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 12, 1961, 54, abstract 12V326. ("Tr. Novosib. in-ta inzh. zh.-d.

transp.", 1960, vyp. 18, 157-169)

The author refers to his previously published paper TEXT:

(A new method of graphically calculating functions of several variables, U Scientific Reports no. 2, HNN X T(NIIZhT), Novosibirsk, 1958, accor-

ding to which a function of n variables in the form

ding to which a function of
$$x$$
 $\mathbf{v}(\mathbf{x}, \mathbf{y}, \mathbf{z}, \dots, \mathbf{k}, \mathbf{t}) = \mathbf{f}_{\mathbf{z}}(\mathbf{x}) \cdot \mathbf{f}_{\mathbf{z}}(\mathbf{y}) \cdot \mathbf{f}_{\mathbf{z}}(\mathbf{z}) = \mathbf{f}_{\mathbf{n}-1}(\mathbf{k}) \cdot \mathbf{f}_{\mathbf{n}}(\mathbf{t})$

can be represented by n plane curves. Each is a function of one of the variables. The remaining (n-1) variables are given the same constant values. After these curves, the author constructs the curves of the derivatives

 $\frac{9x}{9n}$, $\frac{9\lambda}{9n}$... $\frac{9t}{3n}$

Card 1/2

32897

The graphic determination of partial ... S/044/61/000/012/053/054 and after this he constructs the curves of the second order derivatives.

$$\frac{9 \times 9 \lambda}{9 \times 10^{3}}$$
, $\frac{9 \times 9 \lambda}{9 \times 10^{3}}$

etc. Examples are given. Scale-relations are considered.

[Abstracter's note: Complete translation.]

Card 2/2

KNYAGINICHEV, M.I.; BOLKHOVITINA, Yu.R.; Prinimali uchastiye: MYASOYEDOVA, T.V.; PAKHOMOVA, V.F.

Specific rotation of starch and the products of its decomposition during hydrolysis with solutions of hydrochloric acid and aluminum chloride. Biokhimiia 27 no.1:9-14 Ja-F 162. (MIRA 15:5)

1. Technological Institute of the Refrigeration Industry, Leningrad.
(STARCH) (HYDROCHLORIC ACID) (ALUMINUM CHLORIDE)

PAKHOMOVA, V.I. Antifreeze poisoning during World War II. Farm.i toks.10 no.3. 48-49 My-Je '47. (MLRA 7:2) 1. Iz kafedry sudebnoy meditsiny (zaveduyushchiy - professor I.V.Slepyshkov) Kuybyshevskogo meditsinskogo instituta. (Anti-freeze solutions--Toxicology)

PAKHUMUVA, v. r., master Agric Sci — (diss) "The method of Lefection of winter raye at the Kharimov Dection Station." Kharimov, 1957, 22 pp. (Man Agric UCE. Amarikov Agric Inst im. V. V. Dokuchayev), 120 copies.

(KL, No Au, 1957, p.94)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

PARROTOVA, V.F.

25820. PARROTOVA, T.P. Sementwods'vo ruti Abarddovskoy 1 4. Selektri, i stee trodistvo, 1949, No. 8, s. 7-11

So: Let opic! Zhurneling th Poster, Vol. 46, 2000.

```
PAKHONOVA, V.P.

25820. PAKHOMOVi, V.F. Semenovodstvo rzhi Khar'kovskoy 194. Selektsiya i semenovoistvo, 1949, No 8, S. 7-11.

So: Letopis' Zhurnal'nykh Statey Vol. 34, Moskva 1949
```

YUR'YEV, V.Ya. [IUr"iev, V.IA.], akademik, dvazhdy Geroy Sotsialisticheskogo Truda; PAKHOMOVA, V.P., kand.ekonom.nauk

Winter hardiness of certain rye varieties. Visnyk sil'hosp.nauky 4 no.8:21-24 Ag '61. (MIRA 14:7)

NIKITIN, P.I.; PAKHOMOVA, V.V.; LUNEVA, K.K.

Disinfection and disinfestation of bedding mede from synthetic materials. Zh. mikrobiol. 40 no.7:13-18 J1*63 (MIRA 17:1)

1. Iz Vsesoyuznogo nauchno-issledovatel skogo instituta zheleznodorozhno; gigiyeny Glavnogo sanitarnogo upravleniya Ministerstva putey soobshcheniya.

PAKHOMOVA, Ye. A.

Pakhomova, Ye. A. -- "Investigation of the General Rules for Vulcanization of Bulky Rubber Articles." Cand Tech Sci, Moscow Inst of Fine Chemical Technology, Moscow 1953. (Referativnyy Zhurnal--Khimiya, No 1, Jan 54)

So: SUM 168, 22 July 1954

LAYNER, D.I.; BAZHENOVA, L.A.; AGAFONOVA, A.V., Prinimali uchastiye: PAKHOMOVA, Ye.F., inzh.; KORSUNSKAYA, K.N., inzh.

Effect of various additions on the modification and recrystallization temperature of zinc. Trudy Giprotsvetmetobrabotka no.20:81-96 (MIRA 15:2)

(Zinc-Metallurgy) (Crystallisation)

PAKHOMOVSKIY, V.I. (Yelat'ma Ryazanskoy oblasti)

Organizaing the work of rural medical and obstatrical stations in [medical] attendance for children, Fel'd, i akush. 27 no.4:40-42 Ap '62. (MIRA 15:6)

(CHILDREN--CARE AND HYGIENE)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

			Be and planting
PAKHOMYCHEV, A.I.	DECEASED c1960	1961/	2
			•
	SEE ILC		
			÷.
27.10			
HXCIEVE			

5/051/62/012/005/004/021 E039/E120

Alentsev, M.N. (deceased), and Pakhomycheva, L.A.

The connection between absorption and luminescence spectra and the yield of anti-Stokes luminescence AUTHORS: TITLE:

PERIODICAL: Optika i spektroskopiya, v.12, no.5, 1962, 565-570 The supposition that the luminescent quantum yield

must be constant for all regions of excitation and the conclusion, reached by other workers, that the thermodynamic and statistical laws are not violated by anti-Stokes excitation, are investigated experimentally. The luminescent spectra for an alkaline solution of fluorescein are compared for Stokes ($\lambda = 366 \text{ mmk}$) and anti-Stokes ($\lambda = 546$ and 578) excitation over the range 17600-18000 The ratio of spectral intensities

quantum yield with excitation at $\lambda = 366$ mmk and $\lambda = 546$ and 578 shown to remain constant at a value of 20. nmk is calculated and shown to equal 8.5, confirming the data of previous workers. Absorption and luminescent spectra are compared using the formula:

Card 1/2

J1)(J6	/EPF(c)/EPR/EWP(t)/EWP(b) Pr=4/Ps=4/P1-4 IJP(c) 8/0368/65/002/001/0082/0084
accession ari ap5007548	
	wcheva, L. A.
AUTHOR: Cherepher;	tive on the luminescence spectrum of the luminor
PLPOIT_DIP	\$\$\frac{1}{2}\frac{1}{
SOURCE: Zhurnal prikladnoy spek	troskopii, v. 2, no. 1, 1965, 82-84 tivation, strontium sulfate luminor, cerium tivation, change in the luminescence spectrum and an
ABSTRACT: The authors observed increase in the brightness of the were added. The luminor was exand its luminescence spectra we change occurred even upon addit peared. Although the phenomeno	a sharp change in the luminescence spectrum and an nee luminor SrSO4-Sm when small amounts of cerium nee luminor SrSO4-Sm when small amounts of cerium cited by a mercury light with ultraviolet filter, cited by a mercury light with ultraviolet filter, cited by a mercury light with ultraviolet filter, rephotographed with a spectrograph. A noticeable rephotographed with a spectrograph. A noticeable ion of 10-2 Ce, and additional samarium/lines apion of 10-2 Ce, and additional samarium/lines apion of 10-2 Ce, and additional samarium/lines apion of the luminescence center. It is assumed that of the effect of oxygen/associated with oxidation of the effect of oxygen/associated with oxidation of the effect of oxygen/associated with oxidation of a luminor. In particular, with formation of a luminor. In particular, as of cerium are such as to facilitate transitions