88571 S/020/61/136/001/019/037 Derivatives of Silanes With Hydrocarbon Bridges B016/B055 Between the Si Atoms. The Polymerization of 1,1-Dimethyl Silicocyclopentane

of AlCl₃ or AlBr₃ to a specific polymerization reaction (A):
$$(CH_3)_2 Si(CH_2)_4 \xrightarrow{Al_2 X_6} [(CH_3)_2 Si(CH_2)_4] \cdot Al_2 X_6 \longrightarrow$$

 $\longrightarrow [-(cH_3)_2 si(cH_2)_4 -] \cdot Al_2 x_6 \longrightarrow -[si(cH_3)_2 cH_2 cH_2 cH_2 cH_2] n - + Al_2 x_6 (A)$ This reaction is very rapid if the silane and the catalyst are heated for a short time. The authors verified the structure of this product by synthesizing it from corresponding fragments (B). Infrared spectroscopy proved these two products to be identical. Differences between the spectra of these two polymers and that of the monomer are explained by the spacial position of the carbon chains (isomerism). The authors thank Yu. P. Yegorov and Ye. D. Lubush for performing the spectroscopic analyses. Finally the authors discuss the polycondensation of 1,4-ditrimethyl disilyl butane. The reaction product was a colorless, rubbery insoluble polymer similar to the polymerization product obtained in reaction (A). There are 1 figure and 6 Soviet references.

Card 2/3

88571

Derivatives of Silanes With Hydrocarbon Bridges S/020/61/136/001/019/037 Between the Si Atoms. The Polymerization of B016/B055 1,1-Dimethyl Silicocyclopentane

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D.

Zelinskiy of the Academy of Sciences USSR)

October 1, 1960 SUBMITTED:

Card 3/3

BELIKOVA, N.A.; KARGIN, V.A.; PLATE, A.F.; PLATE, N.A.; TAYTS, G.S.; LYAMINA, I.N.

Synthesis and polymerization of 2-vinylbicyclo-(2,2,1)-heptane. Neftekhimiia 1 no.2:218-223 Mr-Ap '61. (MIRA 15:2)

1. Moskovskiy gosudarstvennyy universitet im. Lomonosova i Institut organicheskoy khimii AN SSSR im. N.D. Zelinskogo. (Norbornane) (Polymerization)

SEREGIN, E.A.; KOLESOV, V.P.; BELIKOVA, N.A.; SKURATOV, S.M.; PLATE, A.F.

Heat capacity at low temperatures and thermodynamic functions of endo- and exo-2-cyano-bicyclo-(2,2,1)-heptane. Dokl.AN SSSR 145 no.3:580-583 Jl 162. (MIRA 15:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. Predstavleno akademikom B.A.Kazanskim. (Ricycloheptane) (Heat capacity)

Synthesis of endo- and exo-2-methylbicyclo [2,2,1] heptanes.
Steric directivity of the reaction of cyclopentadiene with propylene. Zhur.ob.khim. 32 no.9:2942-2951 S '62. (NIRA 15:9)

1. Moskovskiy gosudarstvennyy universit meni M.V. Lomonosova i Institut neftekhimicheskogo sinteza AN SSSR.

(Cyclopentadiene) (Propene) (Bicycloheptane)

ALEKSANYAN, V.T.; BARINOVA, Z.B.; ZHIZHIN, G.N.; STERIN, Kh.Ye.; BELIKOVA, N.A.; PLATE, A.E.

Vibrational spectra of some endo- and exoderivatives of the series bicyclo(2,2,1)heptane and bicyclo(2,2,1)-2-heptene.
Zhur.strukt.khim. 4 no.1:28-36 Ja-F '63. (MIRA 16:2)

1. Komissiya po spektroskopii AN SSSR i Moskovskiy gosudarstvennyy universitet imeni M.M. Lomonosova.

(Bicycloheptane—Absorption spectra) (Norbornene—Absorption spectra)

Francisco de la companya del companya de la companya del companya de la companya del la companya de la companya	L 15702-65 EPA/EPA(a)-2/EWT(m)/EPF(c)/EFR/EWP(j)/T Pc-4/Paa-4/Pr-4/ Ps-4/Pt-10/P1-4 AEDC/ASD-3/AFFTC/SSD/AFGC/RPL/AEDC(a)/AFWL/ASD(p)-3 BW/WW/JW/JWD/WE/RM
	ACCESSION NR: AP4044076 S/0189/64/000/004/0003/0006 AUTHORS: Goroshko, N.N. M.P.; Skurstov, S.M.; Belikova, N.A.; Plate, A.F.
	TITLE: Heats of combustion of exo-and endo-isomers 2-cyano-bicyclo-(2,2,1)heptane SOURCE: Moscow.Universitet. Vestnik. Seriya. Khimiya, no. 4, 1964,
	TOPIC TAGS: bicycloheptane derivative, cyano bicyclo heptane, endo isomer, exo isomer, heat of combustion, heat of isomerization, enthalpy, plastic crystal
	ABSTRACT: The heats of combustion of the exo and endo isomers and the heat of isomerization (AH exo-endo) of 2-cyano-bicyclo-(2,2,1)-
	heptane were determined in the Moscow State University Thermochemical Laboratory (v termokhimicheskoy laboratoril MGU) study of the thermodynamic properties of bicyclo-(2,2,1)heptane derivatives, of interest because of their high symmetry suitable for forming "plastic Cord 1/2

L 15702-65 ACCESSION NR: AP4044076 crystals". The enthalpy for the exo-isomer, calculated at initial bomb pressure of 1 atm. - ΔH_c^{00} = 1132.44 ± 0.31 Kcal/mol, and for the endo- isomer, $-\Delta H^{250}$ = 1132.98 \pm 0.35 kcal/mol. The heat of isomerization was calculated at 76.80, at which temperature both isomers were liquid. $\Delta H^{76.80}_{exo} = 1130.09 \pm 0.31$ and $\Delta H^{76.80}_{endo}$ exo -- endo heat of isomerization = -0.96 to.44 koal/mol. Orig. art. has: 3 tables. ASSOCIATION: MGU Kafedra fizioheskoy khimii (Moscow State University Department of Physical Chemistry) SUBMITTED: 03Mar64 DATE ACQ: ENCL: 00 SUB CODE: TO, GC NR REF SOV: 004 OTHER: 004 2/2 Card

BELIKOVA, N.A.; PLATE, A.F.; STERIN, Kh.Ye.

Isomerization of endo- and exc-2-methylbicyclo[2,2,1]heptanes in the presence of concentrated sufuric acid. Zhur.ob.khim. 34 no.1:126-132 Ja '64. (MIRA 17:3)

1. Moskovskiy gosudarstvennyy universitet i Komissiya po spektroskopii AN SSSR.

BEREZKIN, V.G.; KRUGLIKOVA, V.S.; BELIKOVA, N.A.

Kinetics of bimolecular chemical reactions as studied by a pulse chromatographic technique. Dokl. AN SSSR 158 no.1:182-185 S-0 *64 (MIRA 17:8)

1. Institut neftekhimicheskogo sinteza AN SSSR i Moskovskiy gosudarstvennyy universitet . Predstavleno akademikom V.N. Kondrtat'yevym.

FREYDLIN, L.Kh.; PLATE, A.F.; ZHUKOVA, I.F.; BELIKOVA, N.A.

Order of the addition of hydrogen to double bonds of 4-vinylcyclohexane-1 on Pt- and Ni-catalysts. Neftekhimia 4 no.3:382-385 My-Je 164. (MIRA 18:2)

1. Institut organicheskoy khimii AN SSSR im. N.D.Zelinskogo i Moskovskiy gosudarstvennyy universitet.

SEREGIN, E.A.; GOROSHKO, N.N.; KOLESOV, V.P.; EELIKOVA, N.A.; SKURATOV, S.M.; PLATE, A.F.

Heat capacity at low temperatures and the thermodynamic functions of endo- and exo-2-methyl-bicyclo-(2,2,1)-heptanes. Dokl. AN SSSR 159 no.6:1381-1384. D'&4 (MIRA 18:1)

BELIKOVA, N.A.; PLATE, A.F.; TABRINA, G.M.; STERIN, Kh.Ye.; LUKASHINA, V.M.; PAKHOMOV, V.P.; BEREZKIN, V.G.

Isomeric transformations of unsaturated hydrocarbons of the bicyclo (2,2,1) heptane series in the presence of calcium amide and an aluminochromium catalyst. Zhur.org.khim. 1 no.3:506-513 Mr *65. (MIRA 18:4)

1. Moskovskiy gosudarstvennyy universitet, Institut neftekhimicheskogo sinteza AN SSSR i Komissiya po spektroskopit AN SSSR.

EWT(m)/EPF(c)/EPR/EWP(j)/T/ Pc-4/Pr-4/Ps-4 WW/RM ACCESSION NR: AP5017011 UR/0204/64/004/006/0819/0823 AUTHOR: Plate, A. F.; Gusar', N. I.; Belikova, N. A.; Sterin, Kh. Ye. TITLE: Hydrogenolysis and pyrolysis of bicyclo-(3,2,0)-heptane' SOURCE: Neftekhimiya, v. 4, no. 6, 1964, 819-823 TOPIC TAGS: heptane, hydrogenation, pyrolysis, catalysis, cyclic group ABSTRACT: Hydrogenolysis of bicyclo=(3,2,0)-heptane on platinized charcoal begins at 1000 and goes almost to completion at 1500, forming ethylcyclopentane (49%), cycloheptane (44%), and trans-1,2-dimethylcyclopentane (7%). In the presence of nickel-on-kieselguhr, complete hydrogenolysis of bicyclo-(3,2,0)-heptane takes place at 110, resulting in the formation of ethylcyclopentane (50%), cyclopentane (20%), and trans-1,2-dimethyl-cyclopentane (28%). The carrier, kieselguhr, does not catalyze the conversion of bicyclo-(3,2,0)-heptane. Formation of the trans-isomer of 1,2-dimethylcyclopentane was explained by conversion of the cis-isomer originally formed, at the reaction temperature. In a study of the behavior of bicyclo-(3,2,0)-heptane under conditions of catalytic isomerization on platinized charcoal (in the absence of hydrogen), the hydrocarbon remained stable up to 2500, and cleavage of the cyclobutane Card /2

	L 51812-65	
	ACCESSION MR; AP5017011	
	ring occurred to an extent of only 14% at 350°. In the absence of a catalyst, pyrolysis does not begin at temperatures below 450°; at 500°, bicyclo-(3,2,0)-heptane is 15% decemposed, while at 550° the decomposition goes to completion. The pyrolysis products at 500°, after hydro-	
	n-heptane. The pyrolyzate obtained at 550° represented a complex mixtures after hydrogenation, n-pentane, lisopentane, cyclopentane, n-heptane,	
	twans_1 O_dimathylovalahentana, athylcyclopentano, a lee ulomavat com-	
	pounds, and the initial bicyclo-(3,2,0)-heptane were found; the gas formed	
	pounds, and the lattice big and all the and an admirture of mathana	
	in the decomposition contained 80% ethylene and an admixture or methade	
	in the decomposition contained 80% ethylene and an admixture of methane and hydrogen. Orig. art. has: 2 formulas, 3 tables.	
	and hydrogen. Orig. art. has: 2 formulas, 3 tables. ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lozonosova (Moscow	
1	and hydrogen. Orig. art. has: 2 formules, 3 tables.	
	and hydrogen. Orig. art. has: 2 formulas, 3 tables. ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University); Komissiya po spektroskepii AN SSSR (Spectroscopy Cosmission.	
	and hydrogen. Orig. art. has: 2 formulas, 3 tables. ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University); Komissiya po spektroskepii AN SSSR (Spectroscopy Commission, AN SSSR)	
	and hydrogen. Orig. art. has: 2 formulas, 3 tables. ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University); Komissiya po spektroskepii AN SSSR (Spectroscopy Commission, AN SSSR) SURMITTED: 12Jun64 ENCL: CO SUB CODE: CC. GC	

PLATE, A.F.; RELIKOVA, N.A.; BOBYLEVA, A.A.; GUSAR', N.I.; VITT, S.V.

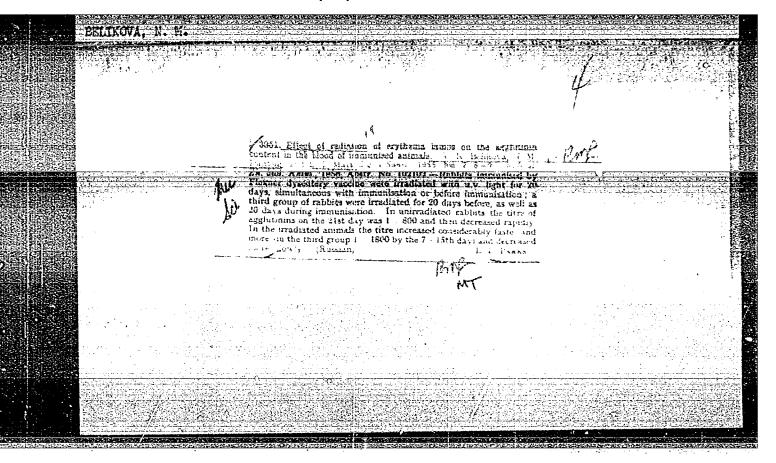
Isomerization of bicyclic CoH16 hydrocarbons in the presence of AlCl3. Dokl. ANSSER 1(3 no.41902-905 Ag '65.

(MIRA 18:8)

1. Moskovskiy gosudarstvennyy universitet i Institut elementoorganicheskikh soyedineniy AN SSCR. Submitted January 16, 1965.

- 1. BELIKOVA, N. L.
- 2. USSR (600)
- 4. Beans
- 7. Polyembryony in kidney beans. Biul. MOIP. Otd. biol. 57, no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.



AUTHORS:

Shilov, V. N., Belikova, N. N., Yershova, 20-119-2-38/60

TITLE:

On the Annlicability of the Melting Method for

Determination of the Approximate Chemical Company viole of the genozoic Volcanic and a of South Sakhalin (O primenimosti metaga ribertar va dlya opredeleniya priblizitel tray a khima ha skago sostera kaynozoyskikh vulkanichesties eror a shango Sakhatina)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 119, No. 1 198

(USSR) .

ABSTRACT:

Only the most recent Canonoic volcanic recks which are rather wide appead in South Satualing them independent bodies; most of them, however, and recognited and form inclusions of different shape in normally deposi to masses.

Here they help to determine the stratigraphic problems correctly of the individual zones. However, a correct analysis

of the volcanio rocks in the case of mass work, in rendered difficult by several reasons. Among other the high calcium content (Labrador disseminations also in the

most acid rocks) lead to great errors, e.g. to the

Carl ! i

On the Applicability of the Melting Method for
Determination of the Approximate Chemical
Composition of the Cenozoic Volcanic Rocks of South
Sakhalin

20-119-2-38/60

determination of dacites as plagioclase basalts. Therefore, the authors suggest a quick but at the same time sufficiently precise method based on the interdependence of the composition of the rocks and the index of refraction of the glass molten from it (refs 3,2) for petrographic mass investigations. In order to be able to examine the applicability of this method 83 complete silicate analyses of volcaries rocks and 4 artificial mixtures were processed. The molting method is described. In order to obtain results which can be compared the spectrographic method (are of alternating current, 20 a, 220 V, for 30 sec) was used. The results of measurings are represented on fig. 1 and 2. It can be seen distinctly from fig.1 that with the increasing silica content in the rocks the refraction index of the glass molten from it decreases and vice versa. The rocks of the alkaline series as well as the altered volcanic and cenotypal representatives of the calc-alkaline series form 3 distinct parallel series in the diagram. The position of

Card 2/4

Cospility of the Melting Method . completion of the Approximate These at Compasition The Volcanic masks of South Senhall be several rocks of the corato spilete forms for which are genetically connected with the coloralization more to decide a 4th independent series. The 4 courses superapolity persons dependence between the silica content and the copy of refraction of the glass molten from it. The beginning of a relatively low accuracy (5%) were shortly distances the conearlier work (ref 2). The accuracy of the two managements of MgO, CaO and $F_2O_3 + FeO$ (fig. 2) is somether where $F_2O_3 + FeO$ Besides, the resulting possibility to and makes the most of the exides, alkalies, alumina and icen can be determined separately by the oner hand in the contract of of variation diagrams also other hyldra Jan to materia, not from the known SiO, content. Adadr. A to the transfer of the same single oxides. In the case of the and the same increases up to 1.5 % for Nid and the kill street of the second (fig. 3). The results of the set- mine is an and may differ. In the case of graces is the mean to the case of graces is the case of graces in the case of graces in the case of graces is the case of graces in the case of grace method should be applied. The Taylor

Fre growing of lity of the Welting Method for the Service of the Manager of . Thereinimition of the April single Chemica Company is of the Canazaic Volcanic, Rache at them. Cakhaile. co be changed under its consideration on apien proportion of their ratios from the appletion of be maintained. Finally, the small content for each to and manganous protoxide is discretion and the care of formation is described (ret i). On the transfer of the is given of the alleged and never a progressive and forces rocks from which slight difference such the series of the melting method can be recommediate for the area of purpose. There are 3 figurez, it is the same to refer the. 1 of which is Soviet. ACCOCIATION: Sakhalinskiy kompleksnyy nauchno-isa a mak tok a in Akademii nauk SSSR (Sakhelin Gorge ve Gelevelle a. . Institute, AS USSR) PRESENTED: July 10, 1957, by D. S. Korandinakla, Memos , A setting Sciences AS USSR July 17, 1957 THE COLOR STREET

USSR/General and Specialized Zoology - Insects.

P.

. Abs Jour

: Ref Zhur - Biol, No 9, 1958, 40119

Author

Belikova, N.P.

Inst Title The Effect of the Conditions of Larvae Development on the

Lenght of Development of Wintering Pupae of the Turnip

Butterfly in dispause (Pieris rapae L. orientalis Obrth.)

in the Primorskoy Region.

Orig Pub

: Vopr. sel'sk. i lesn. kh-va Dal'n. Vostoka, Vyp. 1, 1956,

95-97.

Abstract

The larvae of the turnip butterfly, which pupate not later than the end of August, develop under the conditions of the Primorskoy region without a diapause. But pupation later was accompanied with a diapause. When the butterfly was kept in breeding places outside of the room (under natural conditions) the first butterflies emerged in the latest

cond half of May from those pupae, which pupated the latest

Card 1/2

USSR/General and Specialized Zoology - Insects.

P.

Abs Jour : Ref Zhur - Biol., No 9, 1958, 40119

(15-20 October of the previous year). The author explained the differences in the length of development of the pupac by differences in the conditions (especially temperature) of the development of the larvac. The obtained data permitted first to explain the continuius emergence of the spring generation of butterflies by the various periods of development of the wintering pupae and, secondly to make an assumption about the existence of the butterflies in the Primorskoy region in two varieties: one - that likes the cold weather, appears in the second half of May and pupates later, and the other that likes the warn weather more, emerges in June and pupates earlier. The assumption is confirmed by morphological differences in butterflies of early and late periods of emergence from the pupae. -- G.A. Mazokhin.

Card 2/2

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USSR/Zooparasitology. Ticks and Insects as Disease Vectors. Mites. Water by Dicker

Abs Jour: Ref Zhur-Diol., No 17, 1958, 77025. The transfer of his hor the set of

: Delikova, N. P. Author

tiga da i detamble e k giji ke sala Title : Materials on the Hibernation of Ixodid Ticks in

Animals. Section of Factor Animals of Control of Contro Orig Pub: Tr. Dal'nevost. fil. AN SSSR, Ser. zool., 1956, 3(6), 265-268: Was it is 67% or part of

Alexander - Mark La Varioties Abstract: To study the hibernation of ticks in animals in the environs of the Gornotayezh station of the AS USSR and the Suputin came preserve, 78 wild animals and 15 head of cattle were examined in the winter period. It was established that only a small part of the

population of female and male Dermacentor silvarum

: 1/2 Card

TATARINOVA, L.G.; BELIKOVA, N.P.; KARNAUKHOVA, N.G.

In scientific institutions of Vladivostok. Vop.virus. 4 no.4:511 J1Ag '59.

(MARITIME TERRITORY-TICKS AS CARRIERS OF DISEASES)

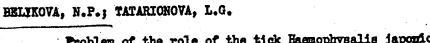
(ENGEPHALITIS)

BELIKOVA, N. P.

"Materials on the Biology and Ecology of Ticks of the Genera Haemaphysalis Japonica Douglast and H. Concinna in Primorskiy Kray."

Tenth Conference on Parsitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Vladivostok Scientific-Research Institute of Epidemiology, Microbiology, and Hygiene



Problem of the role of the tick Haemophysalis japomica fouglasi in circulating the tick encephalitis virus in nature. Med.paras. i paras.bol. 29 no.3:287-288 60. (MIRA 13:12) (TIOKS AS CARRIERS OF DISEASE) (ENCEPHALITIS)

s/020/60/132/06/67/068 B011/B003

AUTHORS:

Belikova, N. P., Tatarinova, L. G.

TITLE:

Spontaneous Infection of Haemaphysalis japonica douglasi N.

With the Virus of Ixodic Encephalitis in Primorskiy kray

1

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 6,

pp. 1462 - 1464

TEXT: It may be seen from publications that the part played by some Ixodidae ticks with respect to focuses of ixodic encephalitis in Haemaphysalis japonica douglasi has not been clarified as yet. It was not possible to isolate a virus from nymphae of this kind from a focus (N. V. Ryzhov and A. V. Kozlova, Ref. 3). For this reason the authors examined this tick with regard to virus, occurrence, and occurrence period. They used pubescent ticks which were collected in a wood of Swiss pines and deciduous trees in Tudo-Vakskoye, Kalininskiy rayon on May 20, 1958. Mice were infected with a 10% suspension prepared from 50 ticks. One mouse was taken ill on the sixth day. Other mice were taken ill after an infection with its brain. A death-rate of 100% was

Card 1/3

Spontaneous Infection of Haemaphysalis japonica S/020/60/132/06/67/068 douglasi N. With the Virus of Ixodic B011/B003 Encephalitis in Primorskiy kray

noted after the fifth experimental repetition. Fig. 1 provides a scheme of the virus isolation. The clinical picture showing convulsions, pareses, and paralyses was characteristic of encephalitis. In the first place, inflammations of the brain matter and meninges were caused in the central nervous system. This was indicative of a meningoencephalitis. The period of incubation was more and more shortened by further repetition of the experiments (from 16 to 5-6 days). The mice perished 24 hours after their illness. The authors proved the antigenic affinity of the strain No. 949 with the virus of ixodic encephalitis. The authors give a percentage of the individual Ixodidae ticks in woods of Swiss pines and deciduous trees of Primorskiy kray. Hence it proceeds that in addition to the main carrier of encephalitis (Ixodes persulcatus) H. japonica douglasi has a considerable share in the ticks' fauna of the plant associations mentioned. The greatest activity is developed by grown-up H.japonica douglasi during April and May, whereas Ix.persulcatus attain a maximum in May - June. The authors did not observe an attack of man by Haemaphysalis concinna in April (Fig. 2). There are 2 figures and 3 Soviet references.

Card 2/3

Spontaneous Infection of Haemaphysalis japonica S/020/60/132/06/67/068 douglasi N. With the Virus of Ixodic B011/B003 Encephalitis in Primorskiy kray

ASSOCIATION: Vladivostokskiy nauchno-issledovatel'skiy institut epidemiologii, mikrobiologii i gigieny (Vladivostok

Scientific Research Institute of Epidemiology, Micro-

biology, and Hygiene)

PRESENTED: February 12, 1960, by Ye. N. Pavlovskiy, Academician

SUBMITTED: February 3, 1960

Card 3/3

	Transmission of the virus of tick-borne encephalitis neumanni D. Dokl. AN SSSR 140 no.3:734-735 S '61.	(LITION 1413)
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		l. Vladivostokskiy nauchno-issledovatel'skiy institut mikrobiologii i gigiyeny. (MARITIME TERRITOKYENCEPHALITIS) (TICKS AS CARRI

SLONOV, M.N., zooparazitolog; Prinimali uchastiye: BELIKOVA, N.P., parazitolog po iksodovym kleshcham; TATARINOVA, L.G., virusolog; KARABANOVA, E.M., laborant; SOTNIKOVA, T.I., laborant

Zooparasitic characteristics of a natural focus of tick-borne encephalitis in the central part of the Maritime Territory.

Trudy VladIEMG no.2:27-32 '62. (MIRA 18:3)

1. Iz Vladivostokskogo nauchno-issledovatel'skogo instituta epidemiologii, mikrobiologii i gigiyeny.

BELIKOVA, N.P., NATSKIY, K.V.

Test of the effect of DDT on replete females and larvae of the Ixodes ticks. Trudy VladIEMG no.2:123-126 '62. (MIRA 18:3)

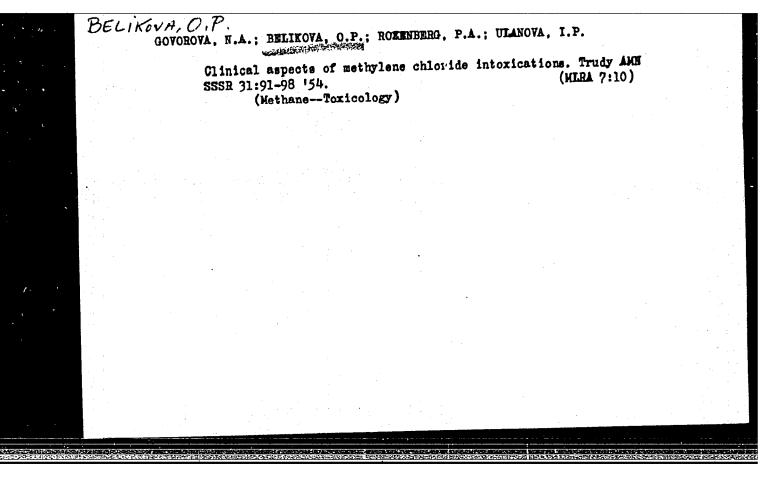
1. Iz Vladivostokskogo nauchno-issledovatel skogo instituta epidemiologii, mikrobiologii i gigiyeny i Primorskoy sanitarno-epidemiologicheskoy stantsii.

BELIKOVA, O. P.

23638.

OSTRYY GEMATOGENNYY OSTEOMIELIT TELA II SHEYNOGO FOZVONKA, OSLOZHNENNYY TROMBOZOM KAVERNOZNYKH SINYSOV. KHIRURGIYA, 1949, No. 7, c. 50-53.

SO: LETOPIS' NO. 31, 1949



ALC.	CLIKOVA, T.	P. 23079	Vave length, tau (duration, from 10-6 to 10-5). Z. A. Trapeznikova prepd the ZnS-Zn phosphor. State that purpose of this work is to verify the assumption concerning the intercombinational transition (³ P ₁ - ¹ S ₀) in the atoms. Submitted by Acad G. S. Landsberg 15 Nov 51.	where conducted. 1, ZnO-Zn, ZnS-Z, -Ag, CuCl-Cu, Cu 2 yellow; blue,	n of the Excited State of Certain Phos- K. V. Shalimova, T. P. Belikova, Phys I bedev, Acad Sci USSR Nauk SSSR" Vol 82, No 5, pp 713-716 "C'nowledge use of M. D. Galanin's "pha ter," with which the measurements of tau	UBSR/Physics - Phosphors 11 Feb 52

USSK/rnysics - Phosphorescence of ZhS-Cu

FD-3285

Card 1/1

Pub. 146 - 44/44

Author

: Belikova, T. P.

Title

: Phosphorescence of crystallophosphor ZnS-Cu during excitation by an

electron beam

Periodical:

Zhur. eksp. i teor. fiz., 29, No 6(12), Dec 1955, 905-906

Abstract

There have been many studies on cathodo-luminescence, but the literature contains practically no works comparing in one and the same specimens the kinetics governing the post-illumination of phosphors during excitation by light and electrons. For the initial stages of post-illumination (about 1/103 second) such a study was carried out (V. A. Arkhangel'skaya, A. M. Bonch-Bruyevich, N. A. Tolstoy, and P. P. Feofilov, ibid., 21 1951), in which work it was shown that the extinguishing occurs nonspecifically relative to the form of excitation and the difference in the observed curves of damping can be explained by the difference in the density of excitation for various forms of excitation (light 365 or 313 mu, or electron beam). In the present communication the writer gives the results of measurements, of the protracted damping of luminescence of ZnS-Cu phosphor (1/104 g/g³) during excitation by an electron beam (energy 2000 volts, current density up to 3 μ A/cm²) and also for the case of excitation by light of wavelength 365 m μ for sake of comparison. He thanks V. L. Levshin, who proposed this subject for study.

Institution: Physical Institute im. P. N. Lebedev, Acad. Sci. USSR

Submitted

July 26, 1955

BELIKOVA, T.P.

USSR/Photochemistry - Radiation Chemistry. Theory of Photographic Process.

B-10

Abs Jour

: Referat Zhur - Khimiya, No 6, 1957, 18653

Author

: T.P. Belikova, M.D. Galanin.

Title

: Photoluminescence Sensibilization by Solvent.

Orig Pub

: Optika i spektroskopiya, 1956, 1, No 2, 168-174

Abstract

: The transfer of excitation energy to the dissolved luminescent substance is observed at the photoluminescence excitation of terphenyl solution in xylene and of anthracene in toluene by the light absorbed in the solvent. The measurement of the absorption indices and luminescence yield confirms that the energy transfer cannot be explained by the reabsorption of solvent luminescence by the dissolved substances. The transfer probability computed from experimental data exceeds the probability expected in accordance with the resonance transfer theory. It is surmised that this is explained by the molecule diffusion during the excited

Card 1/1

- 287 -

state.

Belikova, T. P., Galanin, M. D. AUTHORS: On the Process in the Transfer of Energy in Scintillation-Plastics (O mekhanizme perenosa energii v stsintillyatsionnykh plastmassakh). TITLE:

Izvestiya AN SSSR Seriya Fizicheskaya, 1958, Vol. 22, Nr 1, PERIODICAL: pp. 48-49 (USSR).

Two kinds of plastics with different activator-concentration were in= vestigated here, polystyrene with anthracene and polystyrene with p-ABSTRACT: terphenyl. The luminescence was in the plastics excited by the ultraviolet light in the absorption range of polystyrene. The methods form reference 1 were employed for the determination of the probability of a resonance-transfer and the probability of a transfer by way of radiation (in the case of reabsorption of the luminescence of polystyrene). It became evident that the absolute quantum yield of luminescence in pure polystyrene amounts to $\eta_{\rm p} \approx$ 0,09. This is in agreement with that of reference 2. It is shown that in the range of the investigated concentrations in the case of anthracene the probabi= lity of the transfer by radiation is commensurable with that without it, whereas, in the case of p-terphenyl, the transfer without radia=

48-1-11/20

tion (radiationless transfer) prevails. The probability of transfer to be expected according to theory (references 5 and 6) was calculated Card 1/2

On the Process in the Transfer of Energy in Scintillation-Plastics. 48-1-11/20

from the overlap of the absorption-spectra of luminophores and the lu = minescence-spectrum of polystyrene. The values are in agreement with those of theory, which confirms the induction-resonance character of the radiationless transfer of energy in the plastics. This conclusion does not apply to the case investigated here of a photoexcitation as well as to an excitation with high energy, as the concentration-dependence of the intensity is completely equal in both cases. M. M. Koton placed the plastic-samples investigated at the author's disposal. There are 2 figures, 1 table, and 8 references, 5 of which are Slavic.

ASSOCIATION: Institute for Physics imeni P.N. Lebedev AS USSR

(Fizicheskiy

institut imeni P. N. Lebedeva AN SSSR).

AVAILABLE: Libbary of Congress.

1. Crystals 2. Polystyrene-Luminescence

Card 2/2

AUTHOR:

Ralikova T.P.

SOV/51-6-1-25/30

TITLE:

Luminescence of Long Duration in Crystais of Dibensyl and Diphenylamine During Photo and S-Ray Empiration (Dittel' maya lyuminestsentsiya kristallov dibenzila i difenilamina pri foto- i &-vozbuzhdenii)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol o, Nr 1, pp 117-118 (USSR)

ABSTRACT:

Dibensyl and diphenylamine, which have sufficiently long afterglow at room temperature, were used to study emission of organic crystals excited with photons or fast electrons. The photoluminescence spectra were recorded by means of a spectrograph ISP-51. The phosphorescence spectrum of dibenzyl possesses clear structure and is displaced towards long wavelengths with respect to the total luminescence spectrum. The phosphorescence spectrum of diphenylamine showed no structure but it was also displaced towards longer wavelengths compared with the total luminescence spectrum. Decay of phosphorescence was measured by means of a photomultiplier FEU-19. The photomultiplier signal was fed via a cathode follower to the vertical plates of a special oscillograph by means of which decay could be measured between 0.02 and 50 sec. A mercury lamy SYESD-250 was used as the source of photo-excitation.

Card 1/3

SOV/51-6-1-25/30 Lumines conce of Long Duration in Crystals of Dibensyl and Diphenylamine During Photo and B-Esy Engineeric

Beta-excitation was produced by the use of fast electrons from T1204. In each case a filter OS-11 was placed between a sample and the photomultiplier in order to separate out emission in the yellow-green region. The decay curves recorded by means of the oscillograph were photographed and are shown in Figs 1 and 2. Fig 1 gives the oscillograms of dibentyl and Fig 2 the oscillograms for diphenylamine. In both lighter curves a were obtained after photo-excitation and curves be were obtained after excitation with electrons. For both crystal, curves a and be are identical, i.e. photophosphorescence and cathodophosphorescence useay in the same way. In both crystals the decay law is exponential and the mean excited lifetime t is 0.85 ± 0.02 sec for dibenzyl and 0.35 ± 0.02 sec for diphenylamine. The experiments indicate that recombination processes which occur on excitation with electrons do not affect phosphorescence in the range of

Card 2/3

SOV/51-6-1-25/30 Lumines cence of Long Duration in Crystals of Dibenzyl and Diphonylasine Exercical Photo and 6-Rey Exercication

time intervals used by the author. The results suggest also that on β -excitation and on photo-excitation there is a transition from an excited singlet level to a metastable level and no noticeable direct excitation of the metastable level. Acknowledgments are made to M.D. Galanin who directed this work. There are 2 figures and 5 references, 2 of which are Soviet, 2 English and 1 Swiss.

SUBMITTED: June 18, 1938

Card 3/3

20832

9,4160 (3201,2804 INLY) 9,6150 24,3500 (1137,1138,1395)

S/048/61/025/003/020/047 B104/B214

AUTHORS:

Belikova, T. P. and Galanin, M. D.

TITLE:

Kinetics of the luminescence of ZnS-Cu on excitation with

alpha particles and short light pulses

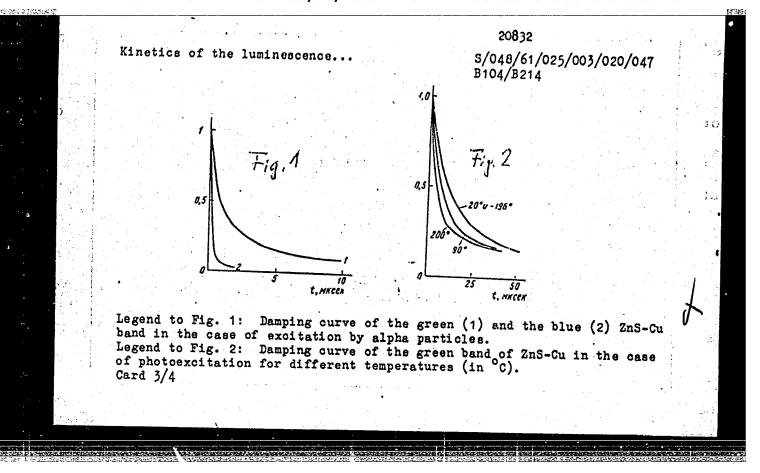
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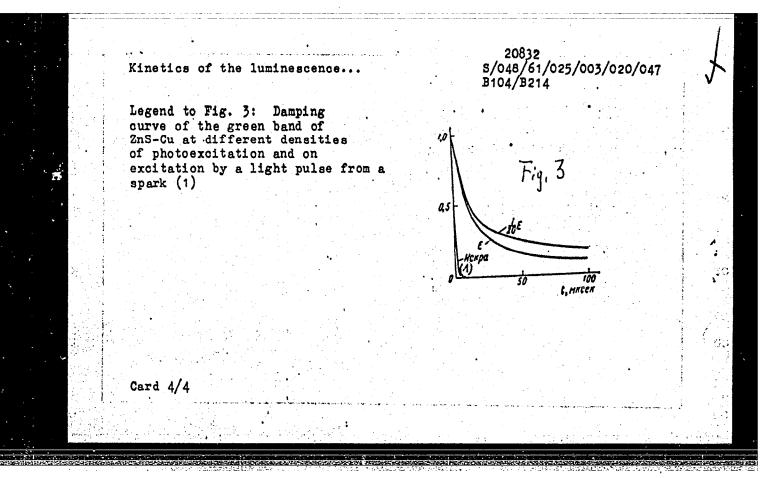
Izvestiya Akademii nauk SSSR. Seriya fizicheskaya,

v. 25, no. 3, 1961, 364-366

TEXT: This paper was read at the Ninth Conference on Luminescence (Crystal Phosphors) held in Kiyev from June 20 to June 25, 1960. The object of the paper is a comparison between the kinetics of alpha scintillations and that of photoluminescence. The duration of the light pulses was 0.5 microsecond, and they were repeated 10 times in a second. A filter for the range between 300 and 400 m μ in the spectrum was used in the case of excitation of the phosphors. The energy amounted to 3 ergs approximately on an area of 0.025 cm². Only the green luminescence band is considered. It is first established that in the case of alpha scintillations the damping curve in the range between -150°C and +200°C depends only slightly on temperature. Further, the observed short

Card 1/4





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AUTHORS:

Belikova, T.P., Galanin, M.D., Sviridenkov, E.A.

Kinetic photoconductivity and luminescence of ZnS-Cu

crystal phosphor with pulsed excitation TITLE:

PERIODICAL: Optika i spektroskopiya, v.13, no.5, 1962, 752-753 It is known that a well defined connection exists between kinetic photoconductivity and kinetic luminescence. is extended to cover the case of pulsed excitation from a spark. A single crystal of ZnS-Cu, Cl, was grown from the gaseous phase (dimensions \sim 2 x 0.3 x 0.01 mm) fixed onto a mica sheet and metallized aluminium electrodes applied. region was chosen to be free from cracks and with a width of 0.3 mm. The dark resistance between the electrodes was $> 10^8 \Omega$ and the applied voltage could be varied from 0.to 250 V. On one beam of a RECO -1 (DESO-1) oscillograph was shown the photocurrent and on the other the output from a photomultiplier measuring the These curves have a very similar luminescence of the crystal. form with a fast initial decay tailing off after about 50 µ sec. With the aid of the following expression derived in a previous Card 1/3

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Kinetic photoconductivity

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paper $I = -\frac{dn}{dt} = \beta nN$

where n and N are the concentration of ionisation centres and electrons in the conduction band, β is the probability of recombination and I is intensity of luminescence; neglecting the effect of the hole processes it is shown that the conductivity $\sigma(t)$ must be proportional to N(t). In addition the change in concentration of the ionisation centres can be obtained by integrating the luminescence decay curves (neglecting quenching): $n(t) + c = \int Idt$.

Hence it follows that there must be a linear dependence between I/o and \(\int \text{Idt.} \) This is verified experimentally. The photoconductivity during pulsed excitation is nearly 5 orders higher than the dark conductivity and does not depend on the field strength (up to 7500 V/cm). In contrast the average conductivity under the action of pulsed excitation and also the dark conductivity increases exponentially with voltage beginning at Card 2/3

Kinetic photoconductivity ...

S/051/62/013/005/016/017 E039/E420

2500 to 3000 V/cm. This is due to an increase in the number of carriers. The dark conductivity up to this voltage remains constant and is equal to 1.3 x $10^{-7}\Omega^{-1}$ cm⁻¹. There are 2 figures.

[Abstractor's note. Abridged translation.]

SUBMITTED: February 24, 1962

Card 3/3

ACCESSION NR: AP4035476

8/0051/64/016/005/0862/0865

AUTHOR: Belikova, T.P.

TITLE: Kinetics of the luminescence of ZnS: Tm crystal phosphor under spark excitation.

SOURCE: Optika i spektroskopiya, v.16, no.5, 1964, 862-865

TOPIC TAGS: luminescence, luminescence research, phosphor, zinc compound, thulium

ABSTRACT: The time variation of the luminescence of rare earth activated crystal phosphors may exhibit certain anomalies connected with the relatively long excited lifetime of the activator. Thus, M.V.Fok (Opt.i spektr.2,129,1957) in experiments with Eu $^{3+}$ activated ThO₂ and ThO₂Th(SO₄) crystal phosphors observed build-up of the luminescence even after cessation of excitation. In the present work there was investigated the afterglow of ZnS:Tm phosphor with 5 x 10⁻⁵ g/g Tm (the phosphor was synthesized by heating at 1150°C in an NH₃ atmosphere). The phosphor was excited by the ultraviolet radiation (300 to 400 mm) from a thyratron stabilized spark between platinum electrodes (V = 6 kV; C = 1500 pf); the light pulses had a duration of about 0.5 microsec; the pulse repetition rate could be varied from 0.1 to 10 flashes

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ACCESSION NR: AP4035476

per sec. The emission was analyzed by a UM-2 monochromator coupled to an FEU-19m photomultiplier. The photomultiplier signal was displayed on the screen of a DESO-1 oscillograph. The emission of ZnS: Tm consists of a group of blue lines (467 to 484 mμ) and a few red lines (645-650 mμ), but present observations were concerned only with the blue group. The luminescence of the phosphor dies down rather rapidly; about 80% of the light sum is emitted within about 150 microsec. The decay is exponential with $\tau = 5 \times 10^{-5}$ sec. The noteworthy feature is that the decay does not begin immediately upon dessation of excitation; instead the luminescence intensity continues to increase for about 10 microsec. The experimental results are presented in the form of curves. The present case, however, differs from that of Fok, cited above, for in this case (in contrast to Fok's) the growth time decreases with increasing excitation density; at the same time the decay time does not change noticeably. Measurements at different temperatures showed parallel variation of T and the average intensity. Some additional measurements were made with the phosphor excited by C-particles. Here it was impossible to observe build-up with the given experimental procedure, but the decay proved to be the same as for the phosphor heated to 100°C. It is inferred that the luminescence build-up is due to recombination luminescence of sensitized ZnS "blue centers", and that the decay is determined by the lifetime of the excited state of Tm3+. "In conclusion, I express my deep grati-

· Card 2/3

ACCESSION NR: AP4035476

tude to M.D.Galanin for guidance in the work and V.V.Antonov-Romanovskiy and M.V. Fok for valuable suggestions in discussing the results of the work." Orig.art.has:

ASSOCIATION: none

SUBMITTED: 20Jul63

DATE ACQ: 22May64

ENCL: OG

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NR REF SOV: 006

OTHER: 000

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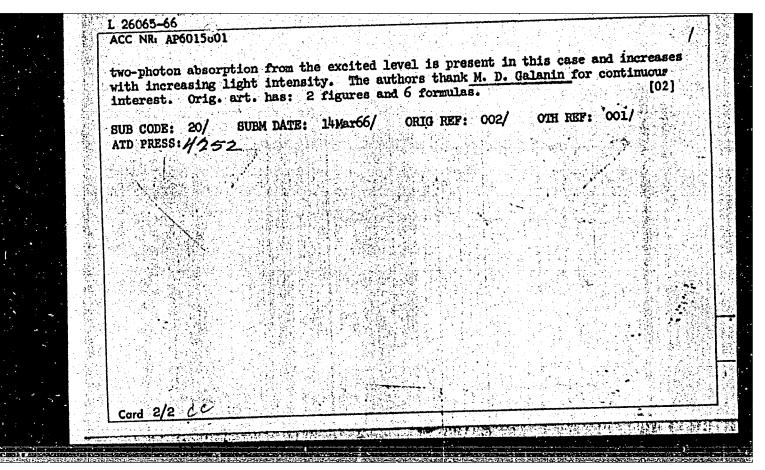
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ACCESSION NR: AP5019595 UR/0386/65/001/006/003	/0040	.]
AUTHOR: Belikova, T. P.; Sviridenkov, E. A.	2	
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TITIE: The effect of a focused ruby leser beam on ruby		
SOURCE: Zhurnal eksperimental'nov i teoretičneskov fiziki. Pis'ma v redaktsivi Prilozheniye, v. 1, no. 6, 1965, 37-40		
rillownentye, v. 1, no. 0, 1507, 51-40		
TOPIC TAGS: ruby, ruby laser, solid state laser, stimulated emission		
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ABSTRACT: An investigation was made of the effect of a ruby laser beam on cube		
shaped ruby crystals with 0.8-cm-long edges placed at the focus of the beam. A chain of annular microfractures with local formations in the center was observed	ed in	1
the ruby cubes along the axis of the laser beam at a power output of 107 w in		j
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L 60981-65 CCESSION NR: AP5019595 Pield. At lower generation power, the excitation was attributed to sorption resulting in excitation from the ² E level to the ² T2 level to the ² E ₀ and the ² A ₀ levels, and radiative transition to leaxation to the ² E ₀ and the ² A ₀ levels, and radiative transition to leaxation to the fact that since the R ₁ line at this temporary that was attributed to the fact that since the R ₁ line at this temporary that it is a shifted by 19 cm ⁻¹ the oscillation wavelength does not cm ⁻¹ and is shifted by 19 cm ⁻¹ the oscillation wavelength of the R ₁ line. Orig. art. has: 3 figures. ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nau Institute, Academy of Sciences, SSSR) Institute, Academy of Sciences, SSSR) ENCL: 00	perature narrows not coincide [CS]	
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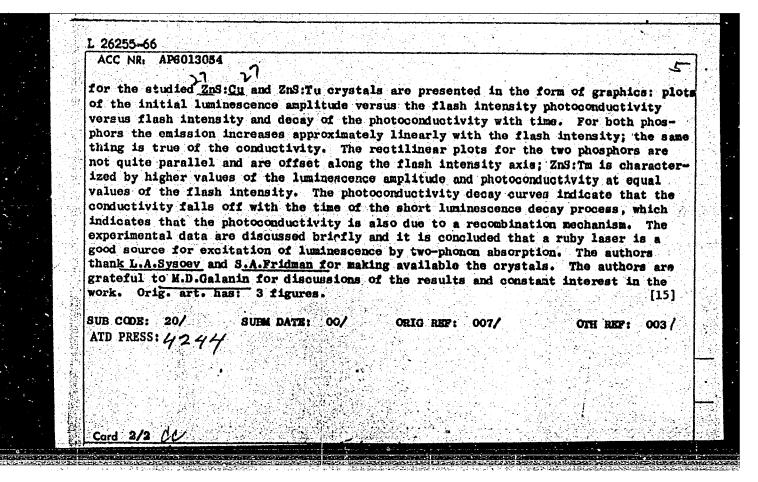
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Effect of a focused beam from a ruby laser on ruby. He is a rade. Zhur. eksper. i tsorat. fiz. 1 no.6:37-40 Je is. (NJEA 19:10)	-	Refect of	_ 1	Lanca Concern	a ruby laser o	ruby.	But y	rad.	
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AUTHOR: Belikova, T. P.; Sviridenkov, E. A. ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences SSSR (Fizicheskiy Bustitut Akademii nauk SSSR) FITIE: Photoconductivity of ruby when strongly irradiated by a ruby laser SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 10, 1966, 394-398 FOPIC TAGS: ruby optic material, ruby laser, photoconductivity, light absorption, photon ABSTRACT: The authors have observed photoconductivity in ruby exposed to strong light (~10 ¹⁰ w/cm²) from a Q-switched ruby laser. The photoconductivity was produced by drilling holes in a ruby sample for electrodes of 2 mm diameter spaced 2 mm apart, to which a voltage of 4 kv was applied. The quantity actually measured was not the photoconductivity directly, but the recharging of the ruby capacitance between the electrodes, resulting from the appearance and motion of carriers in the interelectrode space. The difference between this effect and lasing action is explained. Expressions are given for the density of the electrons produced per second in the conduction band and for the lifetime of the electron in the conduction band. The appearance of the electrons in the conduction band as attributed to the many-photon absorption in the chromium ion and their ionization. It is shown in particular, from an analysis of the dependence of the absorption coefficient on the light intensity, that	CC NR: AP6015801	SOURCE CODE:	UR/0386/66/003/010/0394/0398
PITIE: Photoconductivity of ruby when strongly irradiated by a ruby laser COURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 10, 1966, 394-398 TOPIC TAGS: ruby optic material, ruby laser, photoconductivity, light absorption, photon ABSTRACT: The authors have observed photoconductivity in ruby exposed to strong light (~10 ¹⁰ w/cm²) from a Q-switched ruby laser. The photoconductivity was produced by drilling holes in a ruby sample for electrodes of 2 mm diameter spaced 2 mm apart, to which a voltage of 4 kv was applied. The quantity actually measured was not the photoconductivity directly, but the recharging of the ruby capacitance between the electrodes, resulting from the appearance and motion of carriers in the interelectrode space. The difference between this effect and lasing action is explained. Expressions are given for the density of the electrons produced per second in the conduction band and for the lifetime of the electron in the conduction band. The appearance of the electrons in the conduction band is attributed to the many-photon absorption in the chromium ion and their ionization. It is shown in particular, from an			36
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FOURCE: Zhurnal eksperimental now i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 10, 1966, 394-398 TOPIC TAGS: ruby optic material, ruby laser, photoconductivity, light absorption, photon ABSTRACT: The authors have observed photoconductivity in ruby exposed to strong light (~10 ¹⁰ w/cm²) from a Q-switched ruby laser. The photoconductivity was produced by drilling holes in a ruby sample for electrodes of 2 mm diameter spaced 2 mm apart, to which a voltage of 4 kv was applied. The quantity actually measured was not the photoconductivity directly, but the recharging of the ruby capacitance between the electrodes, resulting from the appearance and motion of carriers in the interelectrode space. The difference between this effect and lasing action is explained. Expressions are given for the density of the electrons produced per second in the conduction band and for the lifetime of the electron in the conduction band. The appearance of the electrons in the conduction band is attributed to the many-photon absorption in the chromium ion and their ionization. It is shown in particular, from an	nstitut Akademii nauk SSSR)		
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ABSTRACT: The authors have observed photoconductivity in ruby exposed to strong light (~10 ¹⁰ w/cm²) from a Q-switched ruby laser. The photoconductivity was produced by drilling holes in a ruby sample for electrodes of 2 mm diameter spaced 2 mm apart, to which a voltage of 4 kv was applied. The quantity actually measured was not the photoconductivity directly, but the recharging of the ruby capacitance between the electrodes, resulting from the appearance and motion of carriers in the interelectrode space. The difference between this effect and lasing action is explained. Expressions are given for the density of the electrons produced per second in the conduction band and for the lifetime of the electron in the conduction band. The appearance of the electrons in the conduction band is attributed to the many-photon absorption in the chromium ion and their ionization. It is shown in particular, from an	OURCE: Zhurnal eksperimental noy i rilozheniye, v. 3, no. 10, 1966, 39	teoreticheskoy fi 4-398	ziki. Pis [*] ma v redaktsiyu.
light (~10 ¹⁰ w/cm²) from a Q-switched ruby laser. The photoconductivity was produced by drilling holes in a ruby sample for electrodes of 2 mm diameter spaced 2 mm apart, to which a voltage of 4 kv was applied. The quantity actually measured was not the photoconductivity directly, but the recharging of the ruby capacitance between the electrodes, resulting from the appearance and motion of carriers in the interelectrode space. The difference between this effect and lasing action is explained. Expressions are given for the density of the electrons produced per second in the conduction band and for the lifetime of the electron in the conduction band. The appearance of the electrons in the conduction band is attributed to the many-photon absorption in the chromium ion and their ionization. It is shown in particular, from an		by laser, photocon	ductivity, light absorption,
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ACC NR: AP7003539

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AUTHOR: Belikovn, T. P.; Sviridenkov, E. A.

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

TITLE: Frequency doubling of light in ruby

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 5, no. 1, 1967, 29-32

TOPIC TAGS: ruby optic material, nonlinear effect, frequency doubling, dipole interaction

ABSTRACT: The authors report observation of emission of wavelength $\lambda = 347$ nm from the region of the focus of a ruby laser in a sample of ruby (which has an inversion center). The observed spectrum consists of two broad bands and a narrow line at double the ruby laser frequency. The radiation was observed both with and without damage to the ruby. The order of magnitude of this emission was estimated from the blackening of the film. 10^{-11} J of light energy is necessary to produce such a blackening in a spot measuring 0.1 mm², and $\sim 10^{-9}$ J is converted into emission with $\lambda = 347$ nm when the incident energy is ~ 1 J. The results are interpreted by estimating the intensities and polarizations for the optical frequency doubling produced by electric dipole and quadrupole and magnetic dipole interaction between the light and the crystal. It is shown that in crystals with an inversion center such as ruby

Card 1/2

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double-frequency radiation cannot be produced by electric dipole interaction only. One possible cause of the double-frequency radiation observed in ruby may therefore be magnetic-dipole and electric-quadrupole interaction between the laser light and the corundum lattice. Another cause may be the distortion of the corundum lattice by chromium ions, which may lead to linear polarization proportional to the degree of lattice distortion and to the chromium concentration. Still another possible cause may be the anti-Stokes Raman scattering of the laser light by the chroumium ions. In this case account must also be taken of the magnetic-dipole and electric-quadrupole interactions. The lack of data on the values of the matrix elements does not make it possible as yet to estimate the contribution of each of these mechanisms to the production of the double-frequency emission in ruby at the intensity observed in the experiment. The disparity between the observed intensity and the estimates of the possible intensity may be due to the anisotropy of the double-frequency emission resulting from interference effects. The authors thank M. D. Galanin for interest in the work. Orig. art. has: 1 figure and 1 formula.

SUB CODE: 20/ SUBM DATE: 300ct66/ ORIG REF: 003/ OTH REF: 003 ATD PRESS: 5112

Card 2/2

KOMAROV, V.S., inzh.; NAZIJIKHANYAN, V.M., inzh.; BELIKOVA, T.V., inzh.

VIRS-2 nonsparking relay with induction pickups.

6 no.8:30 Ag '62.

(Electric relays)

(Electric relays)

CHISTOV, A.D.; BAZARNOVA, G.V.; BEK, N.D.; BELIKOVA, V.I.; BLINOVA, M.Ja.; KABANOVA, P.G.; MAKARCVA, M.D.; PRIPISTSOVA, K.D.; SIMOHOVA, L.F.; TOLKACHEVA, Ye.H.; TYUNYAYEVA, V.V.; ZINCHENKO, V.S., red.izd-va; PAVLOVSKIY, A.A., tekhn.red.

[Foreign trade of the U.S.S.R. for 1918-1940; statistical survey] Vneshniaia torgovlia SSSR za 1918-1940 gg.; statisticheskii obzor. Moskva, Vneshtorgizdat, 1960. 1134 p. (MIRA 13:10)

1. Russia (1923- U.S.S.R.) Glavnoye tamozhennoye upravleniye.
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(Commercial statistics)

BELIKOVA, V. K.

33435. Nekotoryye Gigiyenicheskiye Vorrosy Pri Lyuminestsentnom Osveshchenii. Soobshch. 1. Gigiyena I Sanziariya, 1949, NO. 10, c. 28-30.

SO. Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

BELIKOVA, V.K.

DANTSIG, N. M; HELIKOVA, V. K.

Certain hygienic problems in relation to fluorescent lighting. Gig. Sanit., Moskva no.8:17-20 Aug. 1950.(CIML 20:1)

1. Of the Institute of General and Communal Hygiene of the Academy of Medical Sciences USSR.

BELIKOVA, Y.K.

Photoelectric determination of ultraviolet rays in sunlight. Gig. sanit., Moskva no.6:13-16 June 1952. (CIML 23:2)

1. Of the Institute of General and Communal Hygiene, Academy of Medical Sciences USSR.

BELIKOVA, V.K.; DANTSIG, N.M.; MATS, L.I.

Experimental data on survival time of infected animals irradiated with erythema-producing ultraviolet lamps. Gig. i san. no.11:7-10 N 154. (MIRA 7:12)

THEFTHE OF HOMENLY & COMMINSE PROPERTY AND A LOS

1. Iz Instituta obshchey kommunal noy gigiyeny AMN SSSR.

(ULTRAVIOLET RAYS, effects
on survival time of experimentally infected mice)

(TYPHUS, MURINE, experimental
in mice, eff. of ultraviolet rays on survival time)

BELIKOVA, V. K.

AID P - 2473

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 2/19

Authors : Belikova, V. K., Scientific Worker, Dantsig, N. M.,

Prof., Mats, L. I., Prof.

Title : Effect of the radiation of erythemic lamps on the

agglutinin content of the blood of immunized animals.

Periodical: Gig. i san., 7, 5-7, Jl 1955

Abstract : Describes tests with rabbits and discusses the effect

of ultraviolet rays from erythemic luminescent lamps on the accumulation of agglutinins in the blood of immunized animals, which increases the immunological reaction of the organism against infection. Diagrams.

Institution: Institute of General and Municipal Hygiene, Acad. of

Med. Sci., USSR

Submitted: Dec. 20, 1954

BELIKOVA, V. P.

KARIMOV, Z.K.: BELIKOVA, V.P.

Incidence of dysentery among children in nurseries and at home. Zhur.

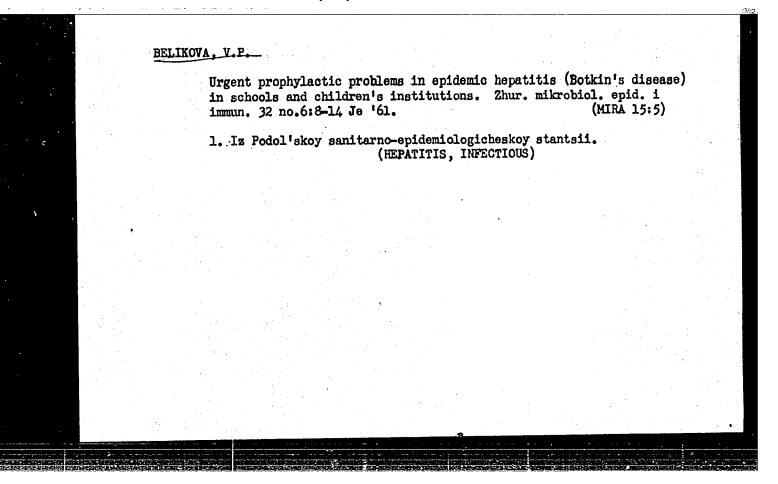
mikrobiol.epid. i immun. 29 no.3:126 Mr '58. (MRA 11:4)

1. Iz kafedry TSentral'noga instituta usovershenstvovaniya Podol'skoy

sanitarno-epidemiologicheskoy stantsii.

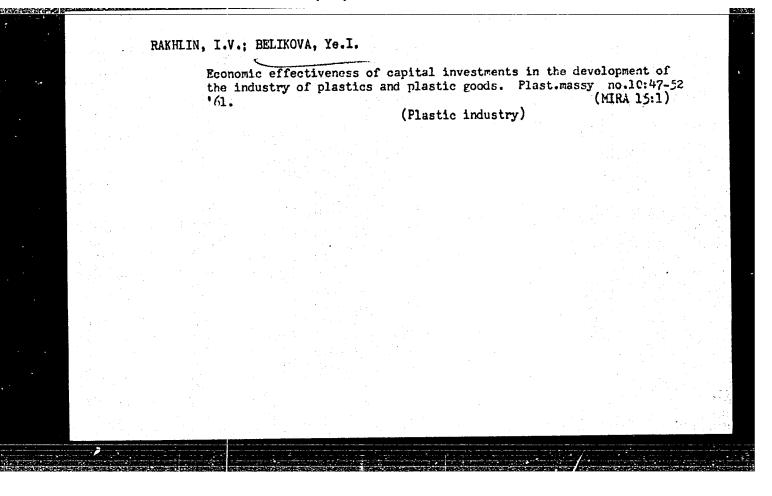
(DYSENTERY)

BELIKOVA, V.P.; KOLOSOV, Ye.N. Epidemiological characteristics of a water-borne outbreak of dysentery and some data on the immunology of dysentery. Zhur. mikrobiol.epid.i immun. 31 nq.9:125-130 S '60. (MIRA 13:11) 1. Iz Sanitarno-epidemiologicheskoy stantsii, Podol'sk. (DYSENTERY) (WATER—MICROBIOLOGY)



GOGOL', L.G.; BELIKOVA, V.P.; SUSHKINA, A.G.; RAYKINA, V.G.; PUGACHEVA, Z.F.

Characteristics of a typhoid fever outbreak at an industrial enterprise. Trudy TSIU 68:35-37 '64. (MIRA 18:5)



BELIKOVA, Ye.M., aspirant

Rare case of a foreign body in the maxillary sinus. Stomatologiia 41 no.5197-98 S-0 '62. (MIRA 16:4)

1. Iz kafedry khirurgicheskoy stomatologii (zav. - prof. A.A.K'yandskiy) I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova.

(MAXILLARY SINUS—FOREIGN BODIES)

BELIKOVA, Ye.M.

Therapeutic use of iodinol in chronic periodontitis. Stomatologiia 43 no.1:30-33 Ja-F*64 (MIRA 17:4)

1. Klinika chelyustno-litsevoy khirurgii i stomatologii (zav. - prof. A.A. K'yandskiy) I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova.

Country : USSR

Category: Cultivated Plants. Grains.

BURGO CO CURTENZA LUCAZA CERTANA

" 5 Jeun. Pahatol., No 11, 1958, 48851

Author : Belikova, Ve. M.

: Leningrad Agricultural Inst. : Spring Wheat Against the Background of the Fourth Inst

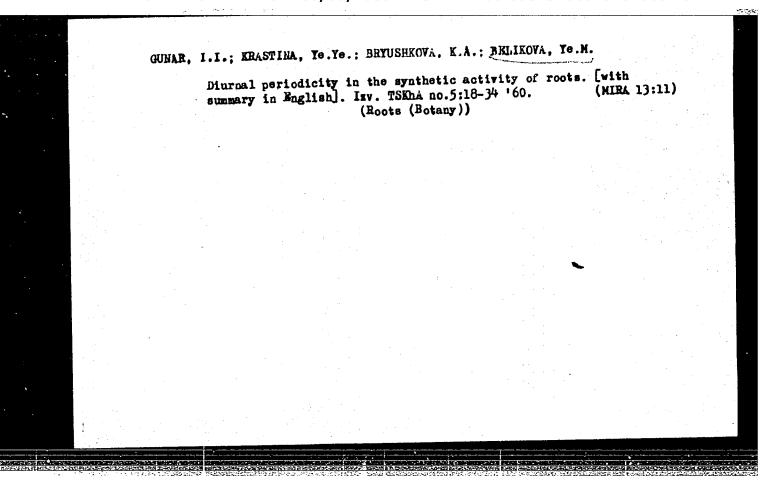
Title Stage.

Orig Pub: Zap. Leningr. s.-kh. in-ta, 1956, vyp. 11, 43-47

Abstract: The fourth stage (discovered by V.A. Novikov) is characterized by the importance, for the plents, of a high intensity of light during the formation of the pollen totrads. In the experiments made at

Leningrad Agricultural Institute, 13 varieties of spring wheat of different origin were subjected to

: 1/2 Card



BELIKOVA, Z.P.

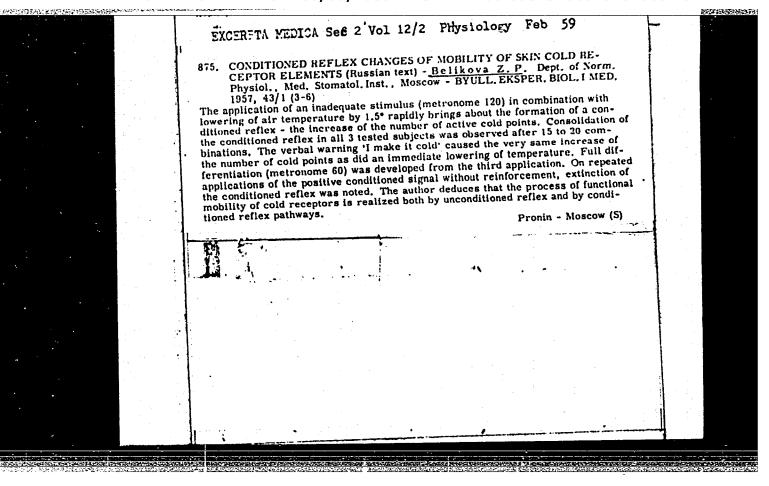
Functional mobility of cold reception of the skin. Vest. vener., Moskva np.2:6-10 Mar-Apr 1953. (CLML 24:3)

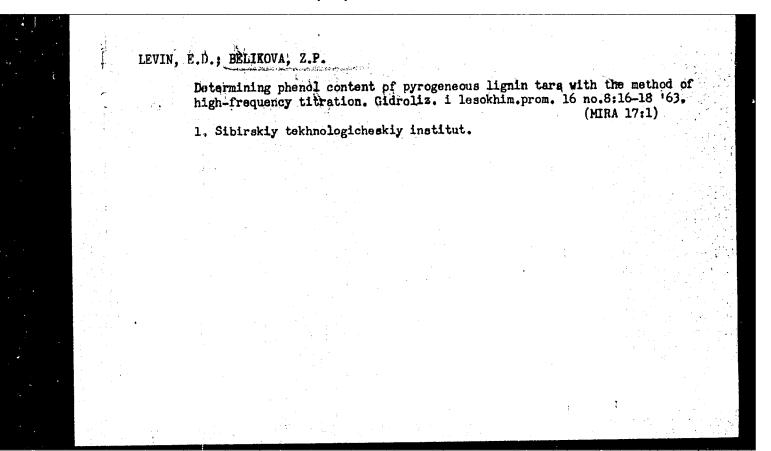
1. Moscow Medical Stomatological Institute (Director -- G. N. Beletskiy; Head of the Department of Normal Physiology -- Prof. P. G. Snyakin).

BELIKOVA, Z. F.

"Dynamics of the Gold Receptors of the Skin and Mucous Membrane of the Oral Cavity." Cand Biol Sci, Moscow Medical Stomatological Inst, Moscow, 1953. (RZhBiol, No 3, Dec 54)

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





	L 64184-65 EWT(m)/EPF(c)/EWP(j)/T/EWA(c) RPL WW/RM ACCESSION RR: AP5021553 UR/0285/65/000/013/0019/0019
	AUTHOR: Belikova, Z. V.; Golubtsov, S. A.; Pomerantseva, H. G.
A STATE AND THE	TITLE: A method for producing organosilicon monomers which contain the 6-(carbo-perfluoro-1,1-dihydrobutoxy)-ethyl group, Class 12, No. 172321
	SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 19
	TOPIC TAGS: organosilicon compound, silicone, fluorinated hydrocarbon, monomer, silane esterification
	ABSTRACT: This Author's Certificate introduces a method for producing organosilicon monomers which contain the β -(carboperfluoro-1,1-dihydrobutoxy)-ethyl group by using chlorosilanes with heating to $70-160^{\circ}$ C. The method is simplified by inter-
	acting the chlorosilanes with perfluoro-1,1-dihydrobutyl acrylate in the presence of a ternary catalyst: tributylamine, tetramethylethylene diamine and copper monochlogide.
	ASSOCIATION: Organizataiya gosudarstvennogo komiteta po khimii (Organization of the State Committee for Chemistry)
	SUBMITTED: 29Apr64 ENCL: 00 SUB CODE: MT, GC NO REF SOV: 000 OTHER: COO

L 18899-63 EWP(j)/EPF(c)/EWT(m)/BDS ASD Pr-li/Pc-li RM/WW/MAY ACCESSION NR: AP3006593 8/0020/63/151/006/1329/1331 AUTHORS: Golubtsov, S. A.; Andrianov, K. A. (Corr. member AN SSSR); Turetskaya, P. A.; Belikova, Z. V.; Trofimova, I. V.; Morozov, N TITLE: Reaction mechanism in the formation of dialkyldichlorosilanes AN SSSR. Doklady*, v. 151, no. 6, 1963, 1329-1331 SOURCE: TOPIC TAGS: dialkyldichlorosilane, dichlorosilane, silane, silicon, chloride, copper chloride, hydration, methyl chloride, alkyl chloride ABSTRACT: Authors showed that during the interaction of alkyl chloride with silica in the presence of copper, dialkyldichlorosilanes are formed. Copper monochloride, which is formed during the reaction of methyl chloride with copper, plays an important part in the synthesis of dialkyldichlorosilanes. The process consists of the adsorption of alkylchloride and its interaction with copper forming CuCl. Copper monochloride reacts with silica forming an intermediate product SiCl2. The removal of CuCl from the reaction zone by means of hydration with hydrogen, results in the discontinuation of Card 1/2

	L 18899-63
	ACCESSION NR: AP3006593
	diethyldichlorosilane formation. Orig. art. has: 1 table, 1 figure and 6 formulas.
	ASSOCIATION: none
	SUBMITTED: 09Apr63 DATE ACQ: 27Sep63 ENCL: 00
0	SUB CODE: CH NO REF SOV: 005, OTHER: 001
	Card 2/2

ACC NR. ABOUNDLY AUTHOR: Golubtsov, S. A.; Korobov, V. V. (Decased); Popkov, K. K.; Trofimova, I. V.; The Stava, R. A.; Andrianov, K. A.; Bolikova, Z. V.; Golosova, R. M.; Oygonblik, A. A. Aristova, V. C. ORG: none TITLE: Reactions of formation of alkyl(aryl)chlorosilanes in a direct interaction between alkyl (aryl) chlorides and silicon. Report No. 6. Role of cuprous chloride in the formation of dialkyldichlorosilanes SOURCE: AN SSSR. Izv. Ser khim, no. 6, 1966, 1009-1016 TOPIC TAGS: silane, chloride, silicon compound, copper compound, CHEMICAL FERCIOL ABSTRACT: A mechanism is proposed for the formation of dimethyl(diothyl)dichlorosilane and mothyl(ethyl)trichlorosilane during the reaction of methyl (ethyl) chloride with silicon on cuprous chloride. The proposed mechanism for the formation of dialkyl-dichlorosilanes is as follows: Card 1/2 UDC: 546.237+542.91+541.124+543.422	ACC MR. AP60240	10	SOURCE CODE: UR/C	062/66/000/005/1009/1016	
Aristova, V. G. ORG: none TITIE: Reactions of formation of alkyl(aryl)chlorosilanes in a direct interaction between alkyl (aryl) chlorides and silicon. Report No. 6. Role of cuprous chloride in the formation of dialkyldichlorosilanes SOURCE: AN SSSR. Izv. Ser khim, no. 6, 1966, 1009-1016 TOPIC TAGS: silane, chloride, silicon compound, copper compound, CHEMICAL FERCIOL ABSTRACT: A mechanism is proposed for the formation of dimethyl(diethyl)dichlorosilane and methyl(ethyl)trichlorosilane during the reaction of methyl (ethyl) chloride with silicon on cuprous chloride. The proposed mechanism for the formation of dialkyl-with silicon on cuprous chloride. The proposed mechanism for the formation of dialkyl-with silicon is as follows:	3		V. (Doceased); Popkov	va, K. K.; Trofimova, I. V.;	
ORG: none TITLE: Reactions of formation of alkyl(aryl)chlorosilanos in a direct interaction botwoen alkyl (aryl) chlorides and silicon. Report No. 6. Role of cuprous chloride in twoen alkyl (aryl) chlorosilanes SOURCE: AN SSSR. Izv. Ser khim, no. 6, 1966, 1009-1016 TOPIC TAGS: silano, chloride, silicon compound, copper compound, CHEMICAL FERCIOL ABSTRACT: A mechanism is proposed for the formation of dimethyl(diethyl)dichlorosilane and methyl(ethyl)trichlorosilane during the reaction of methyl (ethyl) chloride with silicon on cuprous chloride. The proposed mechanism for the formation of dialkyl-with silicon couprous chloride. The proposed mechanism for the formation of dialkyl-witholorosilanes is as follows:	S There Staves R. A.	, Andrianov, K. A.,		59	
tween alkyl (aryl) chlorides and the formation of dialkyldichlorosilanes SOURCE: AN SSSR. Izv. Ser khim, no. 6, 1966, 1009-1016 TOPIC TAGS: silane, chloride, silicon compound, copper compound, CHEMICAL FERCIO.) ABSTRACT: A mechanism is proposed for the formation of dimethyl (diothyl) dichlorosilane and methyl (ethyl) trichlorosilane during the reaction of methyl (ethyl) chloride with silicon on cuprous chloride. The proposed mechanism for the formation of dialkyldichlorosilanes is as follows: UDC: 546.287+542.91+541.124+543.422	ORG: none	•			
TOPIC TAGS: silane, chloride, silicon compound, copper compound, CHEMICAL FERCINED ABSTRACT: A mechanism is proposed for the formation of dimethyl(diethyl)dichlorosil- ane and methyl(ethyl)trichlorosilane during the reaction of methyl (ethyl) chloride with silicon on cuprous chloride. The proposed mechanism for the formation of dialkyl- dichlorosilanes is as follows: UDC: 546.237+542.91+541.124+543.422	1 1	I CUIDLINGS SING CAMA	•••••	in a direct interaction be- ble of cuprous chloride in	
TOPIC TAGS: silane, chloride, silicon compound, copper compound, CHEMICAL FERCINED ABSTRACT: A mechanism is proposed for the formation of dimethyl(diethyl)dichlorosil- ane and methyl(ethyl)trichlorosilane during the reaction of methyl (ethyl) chloride with silicon on cuprous chloride. The proposed mechanism for the formation of dialkyl- dichlorosilanes is as follows: UDC: 546.237+542.91+541.124+543.422	132 0000	Tour Son khim. no	6, 1966, 1009-1016	•	İ
ABSTRACT: A mechanism is proposed for the formation of dimethyl(diethyl)dienlorositane and methyl(ethyl)trichlorositane during the reaction of methyl (ethyl) chloride with silicon on cuprous chloride. The proposed mechanism for the formation of dialkyldichlorositanes is as follows: UDC: 546.237+542.91+541.124+543.422	SOURCE: AN SSSR.	TZA. Del Kurniè no		PERMITAL)
ABSTRACT: A mechanism is proposed for the formation of dimethyl(diethyl)dienlorositane and methyl(ethyl)trichlorositane during the reaction of methyl (ethyl) chloride with silicon on cuprous chloride. The proposed mechanism for the formation of dialkyldichlorositanes is as follows: UDC: 546.237+542.91+541.124+543.422	MODIC TACS: sil	no, chloride, silico	n compound, copper com	pound, CHEMICAL FEACING	1
UDC: 546.237+542.91+541.124+543.422	ABSTRACT: A meet ane and mothyl (et with silicon on	nanism is proposed fo hyl)trichlorosilano puprous chloride. Th	r the formation of dim	ethyl(diethyl)dienteresiz	1 3
	dichtorositanes	to as torrows.		· · · · · · · · · · · · · · · · · · ·	
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			נוניתי בווך טמט ד בור	9.91+541.124+543.422	
	Cord 1/2		0001 540.207154	60/41)	
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ACC NR. AP60240	$RCI + Cu \rightarrow RCI \cdot Cu$	
	$2RCl \cdot Cu \rightarrow 2CuCl + 2R$	
	$Si + 2CuCl \rightarrow SiCl_2 + 2Cu$	
	$SiCl_2 + RCl \cdot Cu \rightarrow RSiCl_2 + CuCl$	
	$RSiCl_2 + RCl \cdot Cu \rightarrow R_2SiCl_2 + CuCl$	
	$Si + 2RCl \xrightarrow{Cu} R_2SiCl_2$	
The formation of	alkyltrichlorosilane is represented as follows:	
	Si + 2CuCl → SiCl ₂ + 2Cu	
	51 20001 - 5:5:5 1	
•	$SiCl_2 + RCl \cdot Cu \rightarrow RSiCl_3 + Cu$	
formed. The for conditions of sy	SiCl. + RCI·Cu - RSiCl. + Cu a obtained confirmed these mechanisms. Thermodynamic calculations of es of the reactions of methyl and othyl chloride with silicon were pe mation of dichlorosilene is thermodynamically quite probable under the nthesis of alkylchlorosilanes. UV spectra of the products formed by the silicon showed a group of bands characteristic	18
the initial stag formed. The for conditions of sy the reaction of of the spectrum	SiCl. + RCl·Cu → RSiCl. + Cu a obtained confirmed these mechanisms. Thermodynamic calculations of es of the reactions of methyl and othyl chloride with silicon were per mation of dichlorosilene is thermodynamically quite probable under the nthesis of alkylchlorosilenes. UV spectra of the products formed by cuprous chloride with silicon showed a group of bands characteristic of SiCl ₂ . Orig. art. has: 2 figures and 5 tables.	18
the initial stag formed. The for conditions of sy the reaction of of the spectrum	SiCl. + RCI·Cu - RSiCl. + Cu a obtained confirmed these mechanisms. Thermodynamic calculations of es of the reactions of methyl and othyl chloride with silicon were pe mation of dichlorosilene is thermodynamically quite probable under the nthesis of alkylchlorosilanes. UV spectra of the products formed by the silicon showed a group of bands characteristic	10

Cand Med Sci

BELIKOVA-ALDAKOVA, V. D.

Dissertation: "Combined Method for Immunization Against Abdominal Typhus." 11/12/50

First Moscow Order of Lenin Medical Inst

SO Vecheryaya Moskva Sum 71

BELIKOVA-ALDAKOVA, V.D., kandidat meditsinskikh nauk (Moskva)

Measures for preventing dysentery in the district. Fel'd.i akush.
no.7:22-26 Jl '55. (HLRA 8:10)
(DYSENTERY, prev. and control
in Bussia)

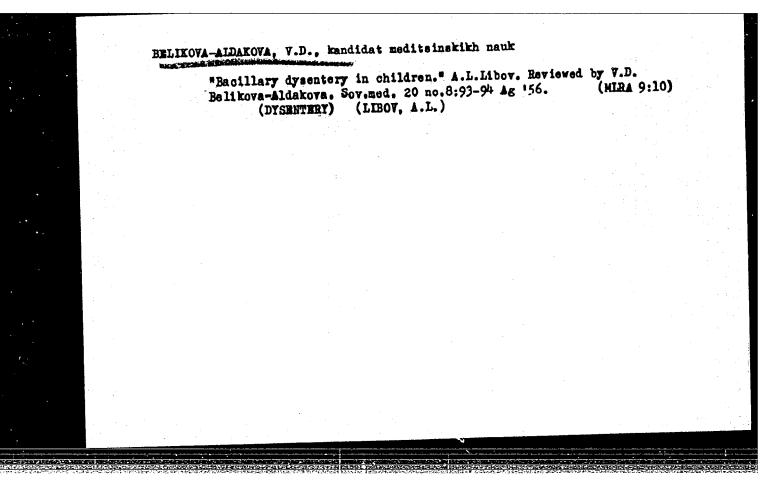
BRLIKOVA. V.D., kandidat meditsinskikh nauk; BLYUMEL', N.F.; MITROFANOVA, Ye.B.; SOLOV'YEVA, N.A.; DOVZHIK, R.M.

Effect of sanitary conditions on dysentorial reinfection in special nurseries. Gig. i san. 21 no.6:48-51 Je '56. (MLRA 9:8)

1. Is kafedry epid. I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

(DYSENTERY, BACILLARY, in infant and child,

reinfect. in nurseries (Rus))



BELIKOVA-ALDAKOVA, V.D., dotsent; DODONOV, V.N., dotsent

"Course in special epidemiology." V.A.Bashenin, Reviewed by V.D.
Belikova-Aldakova, V.N.Dodonov. Sov.med. 20 no.6:92-95 '56.

(EPIDEMIOLOGY)

(RASHENIN, V.A.)

ALDAKOVA, V.D.; FLYUMEL', N.F.; MITHOFAHOVA, Ye.B.; SOLOV'INVA, N.A.

Bpidemiological significance of atypical strains of dysentery bacteria. Zhur.mikrobiel., epidem. i immun. 27 no.3:23 Mr! 56.

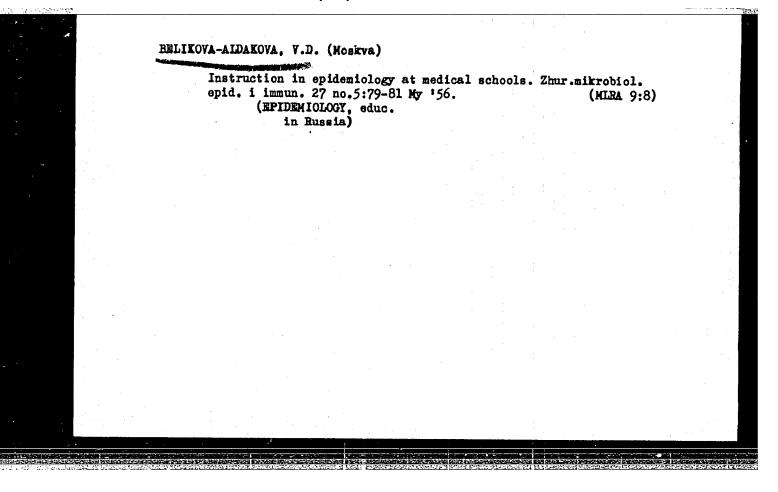
(MIRA 9:7)

1. Is kafedry epidemiologii I Moskovskogo mediteinskogo instituta.

(SHIGELIA,

dysenteriae, atypical strains, epidemiol. significance

(Bus))



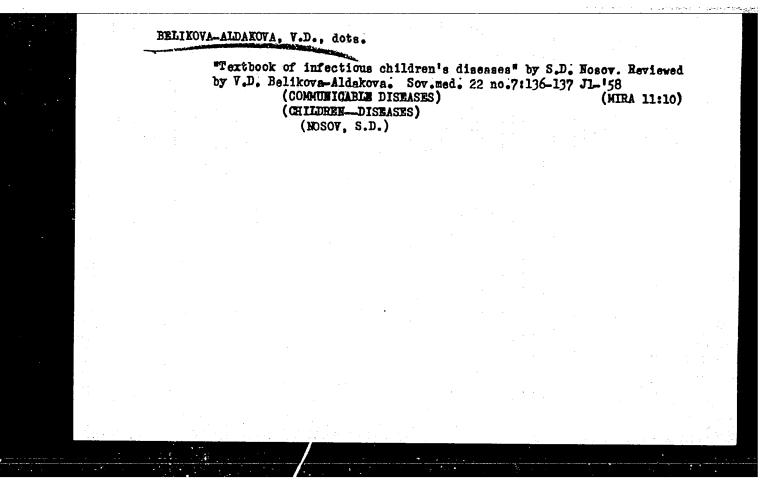
	Measur 43-46	es for the preven S'57 (DIPHTHERIA)	tion of d	iph theria.	Fel'd. i. akush (1	1. 22 no.9: (IRA 11:10)	
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	and the second second						

BELIKOVA-ALDAKOVA, V.D., PERFIL'YEVA, Ye.P.

Some problems in organizing preventive diphtheria inoculations in rural areas. Zdrav.Ros.Fed. 2 no.9:21-24 S'58 (MIRA 11:10)

I. Iz kafedry epidemiologii (zav. - prof. I.I. Yelkin) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(DIPHTHERIA)



BELIKOVA-ALDAKOVA, V.D.; BLYUNGL', N.F.; MITROFANOVA, Ye.V.; SOLOV'YEVA, N.A.

Some data on the nature of atypical strains of Shigella. Zhur.mikrobiol.epid. 1 immun. 30 no.4:94-97 Ap 59.

1. Iz kafudry epidemiologii II Moskovskogo meditsinskogo instituta imeni Sechenova.
(SHINKIIA

atypical strains (Rus))

BELIKOVA-ALDAKOVA, V.D.; DODONOV, V.N. "Preventive inoculation" by A.L. Nikol'skii. Reviewed by V.D. Belikova-Aldakova, V.N. Dodonov. Zhur.mikrobiol.epid. i immun. 30 no.9:150-152

(VACCINATION)

(NIKOL'SKII, A.L.)

(MIRA 12:12)