

Резюме, А. К.

СМАДЕН, А. С.; ПЕТРОВ, А. К.

исследования эффективности обработки шихты
электрошлаком в индукционных печах
гидрометаллургии

report submitted for the 5th Physical Chemical Conference on
Steel Production.

MOSCOW 80 100 428

S 1111/10.11/011 111011

AUTHORS: Voynov, S. G., Candidate of Technical Sciences; Korniyenkov
A. N., Engineer; Petrov, A. K., Engineer; Bokshitskiy, Ya. M.
Engineer; Markelov, A. I., Engineer; Shalimov, A. G., Candidate
of Technical Sciences; Kosoy, L. F., Engineer; Shekht
mov, O. M., Engineer; Khazin, G. A., Engineer

TITLE: The Refining¹ of Alloy Steels by Molten Synthetic Slags

PERIODICAL: Stal', 1960, No. 7, pp. 611 - 618

TEXT: Experiments of refining alloy steels by molten slags in the ladle were made to improve this process. 315 experimental castings were carried out in 10-t and 20-t basic arc furnaces with ball bearing, structural and stainless steels. The slag was prepared in a 10-t arc furnace (with a 2500 kva transformer) from a mixture of 95 kg lime and 80 kg commercial grade alum earth; the synthetic slag poured into the ladle was about 5 - 6% of the metal weight. Two kinds of slags were used, one for ball bearing steel (A = A) and one for structural and stainless steel (B = B) with the following composition (the nominators indicate the values before the denominators after the treatment of the metal)

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S/34/60/00/19/00/199

The Refining of Alloy Steels by Molten Synthetic Slags

Slag	CaO	Al ₂ O ₃	SiO ₂	MnO	FeO
A	$\frac{53.3}{49.5}$	$\frac{44.4}{42.2}$	$\frac{1.42}{1.34}$	$\frac{1.42}{1.46}$	$\frac{0.18}{0.21}$
B	$\frac{53.6}{50.4}$	$\frac{42.8}{41.5}$	$\frac{1.31}{1.32}$	$\frac{1.46}{1.83}$	$\frac{0.18}{0.23}$



The temperature of the slag varied between 1,650°C and 1,750°C. The electric power used in preparing the slag was 150 kwh per ton of steel, this value, however, will not be higher than 90 kwh/ton when using furnaces specially designed for this purpose. The electrode consumption in the smelting furnace amounted to 1.3 kg/ton steel. In the experiments the following steel types were used: 111X15 (ShKh15), 12X13 (ShKh13SG), 12X13 (ShKh13SG), 30X70A (KhGSA), 30X70A (30KhGSNA), 40X10A (40KhNMA) and 17A-18A (in 20-t electric furnaces) and 38X10A (38KhMYuA), 35X10A (35KhYuA), 18X10A (18KhNVA), 12X14A (12Kh2N4A), 12X13A (12Kh13A), 12X13 (SKh3), 12X13 (Kh13) and 12X13 (Kh13) (in 10-t electric furnaces). Several modifications of refining are described under basic and chamotte slag with different amounts of ferrisilicon and aluminum; with and without decarburization of the metal and with varying dura

Card 2/4

L 15010-66 EWT(m)/EWP(j) RM
ACC NR: AP6001642

SOURCE CODE: UR/0051/65/019/006/0904/0912

AUTHOR: Sechkarev, A. V.; Petrov, A. K.

ORG: none

TITLE: A comparative study of the vibrational spectra for several aromatic acids in gaseous and condensed states

SOURCE: Optika i spektroskopiya, v. 19, no. 6, 1965, 904-912

TOPIC TAGS: vibration spectrum, aromatic hydrocarbon, ~~phase transition~~, Raman spectrum, IR spectrum, absorption spectrum, spectral line, temperature dependence

ABSTRACT: The Raman and infrared absorption spectra of benzoic acid and *o*- and *m*-toluic acids are studied in the gaseous, liquid (at various temperatures) and crystalline states. Temperature-phase changes in various spectral regions are studied. It is found that several lines are invariant during temperature-phase transitions. The frequencies of these lines are fairly close in all three passes: ~ 1600 , ~ 1500 , ~ 700 cm^{-1} (infrared spectra) and ~ 1600 , ~ 1000 , ~ 600 cm^{-1} (Raman spectra). Lines are observed at frequencies below 1600 cm^{-1} which are redistributed with respect to

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ACC NR: AP6001642

intensity during phase transition. There is usually an increase in the intensity of the low frequency component with a noticeable frequency shift. The most characteristic redistributions are tabulated. Other temperature-phase changes associated with the dissociation of dimers are observed. These experimental data are used as a basis for a quantitative evaluation of some association parameters. Curves are given showing the intensity ratio for bands of the monomer and dimer, as well as the dimer-monomer equilibrium constant as a function of temperature in a melt of benzoic acid. These curves show that the hydrogen bond has no noticeable effect on the electro-optics of the molecular vibrations. An expression is derived for the dimer-monomer equilibrium constant. An analysis of the experimentally determined temperature dependence of the dimer-monomer equilibrium constant for benzoic acid shows a linear relationship. Data on the temperature dependence of vibrational spectra in the middle frequency region may be useful for a quantitative study of the hydrogen bond. These temperature-phase changes in the vibrational spectra of carboxylic acids are completely regular and just as typical for dimer association as the widely known changes in the C=O and O-H regions for stretching vibrations. Orig. art. has: 4 figures, 1 table, 4 formulas.

SUB CODE: 07.20/ SUBM DATE: 16Jun64/ ORIG REF: 010/ OTH REF: 016

Card 2/2

PETROV, A.K., kand.tekhn.nauk

Production of fiberboard using the dry method in Czechoslovakia.
Der. prom. 14 no.1:30-32 Ja '65.

(MIRA 18:4)

KOIN, V.I.N.; METEL, A.F.; KUDAROVA, G.I.; YAFROSON, G.G.

Asymmetrically substituted chlorobenzene derivatives by the method of
nuclear magnetic resonance and infrared spectroscopy. Zh. fiz. khim.,
khim. 20 no. 4:330-337, 1954. (MIRA 2:1)

1. Institut khimicheskoy fiziki i goreniya i Novosibirskiy
Institut khimicheskoy khimii Sibirskogo otdeleniya AN SSSR.

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PETROV, A.K., dotsent

Materials on the weight gain of cattle in postnatal development.
Sbor. nauch. trud. Ivan. sel'khoz. Inst. no.19:167-182 '62.
(MIRA 17:1)

1. Kafedra anatomii i fiziologii sel'skokhozyaystvennykh
zhivotnykh (zav. - dotsent A.K. Petrov) Ivanovskogo sel'-
skokhozyaystvennogo instituta.

PETROV, A.K., kand.tekhn.nauk

High-frequency heating in gluing pieces of great length. (MIRA 12:1)
12 no.10:5-7 0 '63.

1. Moskovskiy lesotekhnicheskij institut.

PETROV, A.K.

Problems of soil erosion control as demonstrated at the
Exhibition of Achievements of the National Economy of
the U. S. S. R. Zemledelie 24 no.10:77-84 0 '62.
(MIRA 15:11)

(Moscow—Exhibitions)

(Soil conservation—Exhibitions)

PETROV, Aleksandr Konstantinovich; SURIN, Sergey Filippovich;
KOVALEV, A.M., inzh., ved. red.; APIRIN, B.S., inzh.,
red.; PONOMAREV, V.A., tekhn. red.

[Using the stretching method in high-speed countersinking
and hole reaming with hard-alloy tools] Skerostnoe zenkerova-
nie i razvertyvanie otverstii tverdosplovnym instrumentom me-
todom "na rastiazhenie." Moskva, Filial Vses. in-ta nauchn.
i tekhn. informatsii, 1958. 15 p. (Peredovoi nauchno-tekhnii-
cheskii i proizvodstvennyi opyt. Tema 10. No.M-58-34/8)
(MIRA 16:3)

(Drilling and boring)

PETROV, Aleksandr Konstantinovich; SURIN, Sergey Filippovich;
SHELKOV, N.I., inzh., ved. red.; IVANOV, P.F., inzh., red.;
SOROKINA, T.M., tekhn. red.

[Highly efficient method for jig boring deep blind holes in cylinders with subsequent reaming] Vysokoproizvoditel'nyi metod kombinirovannogo rastachivaniia glukhikh glubokikh otverstii tsilindrov s posleduiushchim razvertyvaniem. Moskva, Filial Vses.in-ta nauchn. i tekhn.informatsii, 1958. 16 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 10, No.M-58-153/28) (Drilling and boring) (MIRA 16:2)

USPENSKIY, V.A.; RADCHENKO, O.A.; GLEBOVSKAYA, Ye.A.; SHISHKOVA, A.P.;
MEL'TSANSKAYA, T.N.; INDENBOM, F.B.; Prinsipali uchastiye:
KOLOTOVA, L.F., khimik; CHAGINA, T.P., tekhnik; MASHINA, T.E.,
laborant; VIKULINA, M.N., laborant; POLOVNIKOVA, I.A., fizik;
PETROV, A.K., tekhnik; PONOMAREV, B.P., laborant; KHYAMYALYAYNIN,
L.B., laborant; KLOCHKOV, B.N., laborant; RAGINA, G.M., vedushchiy
red.; SAFRONOVA, I.M., tekhn.red.

[Basic processes of the transformation of bitumens in nature
and the problems of their classification] Osnovnye puti pre-
obrazovaniia bitumov v prirode i voprosy ikh klassifikatsii.
Leningrad, Gos.nauchno-tekhn.izd-vo nefi.i gorno-toplivnoi
lit-ry Leningr.otd-nie, 1961. 314 p. (Leningrad. Vsesoiuznyi
nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy,
no.185). (MIRA 15:4)

(Bitumen--Geology)

VOINOV, S.G.; KOSOY, L.F.; SHUMOV, M.M.; SHALIMOV, A.G.; CHEKHOMOV, O.M.;
ANDREYEV, T.B.; APANAS'YEV, S.G.; KALINNIKOV, Ye.S.; Primali
uchastiye: KORNEYENKOV, A.N.; GURSKIY, G.V.; BOKSHITSKIY, Ya.M.;
PETROV, A.K.; MOKHIR, Ye.D.; KOLYASNIKOVA, R.I.; KHASIN, G.A.;
DANILIN, V.P.; PLEKHANOV, P.S.; MAZUN, A.I.; MARKIN, A.A.

Refining converter steel in the ladle with liquid synthetic slag.
Stal' 22 no.3:226-232 Mr '62. (MIRA 15:3)
(Steel—Metallurgy)

PETROV, A. K., metodist

Control of soil erosion. Zemledelie 23 no.9-64.
U.S.S.R. (MIRA 14)

1. Pavilion "Zemledel'ya" na Vystavke dostizheniy narodnogo
dolzynstva.
(Soil conservation)

VOINOV, S.G., kand.tekhn.nauk; KORNEYENKOV, A.N., inzh.; PETROV, A.K.;
BOKSHITSKIY, Ya.M.; MARKELOV, A.I.; SHALIMOV, A.G., kand.tekhn.
nauk; KOSOY, L.F., inzh.; CHEKHOMOV, O.M.; KHASIN, G.A.

Refining of alloyed steels by molten synthetic slags. Stal' 20
no. 7:611-618 J1 '60. (MIRA 14:5)
(Steel--Electrometallurgy)

PETROV, A.K., inzh.

Setting time for wood gluing with carbamide glues. Der.prom.
10 no.10:11-12 0 '61. (MIRA 14:9)

1. Moskovskiy lesotekhnicheskii institut.
(Gluing) (Urea)

Экспериментальное исследование
дефектов

AUTHOR: Malinov, A. I.; Petrov, A. E.

TITLE: Study of the efficiency of treating metal defects with synthetic lime-alumina slag

ABSTRACT: Referativnyy zhurnal, Metallurgiya, No. 11, 1961, pp. 41-42, 107. (V. Sp. "Fiziko-khim. osnovy proizvodstva", Moscow, Metallurgizdat, 1961, 107-110.)

TEXT: Experimental results are given on the treatment of 10 industrial (10 - 40 ton) heats of structural and ball-bearing steels using lime-alumina slag. The slag was melted in a reduction furnace whose bottom and sides were made of carbon bricks; the slag composition (in %) was CaO 54-56, Al₂O₃ 14-15, SiO₂ 2-3. The metal was treated by letting it out of the furnace at a slightly higher into a ladle with the synthetic slag; the quantity of the latter in the ladle was 1.5-2.0 of the metal, by weight. In the electric furnace the metal was neither deoxidized nor desulfurized. As a result of the synthetic slag treatment a considerable desulfurization of the metal occurred; the sulfur content was reduced by 1.5 - 2.0% in one minute; about half of the heats of steel III-X (in kWh)

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Study of the efficacy of treating ...

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A. O. A. I.

were obtained with a sulfur content of 0.001-0.002%. The percentage of the metal by sulfide impurities was reduced by a factor of almost two, and the content and size of oxide impurities were also reduced. As a result of this treatment by synthetic slugs a considerable improvement in the mechanical properties and a sharp drop in their anisotropy was attained.

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Author's note: ...

KHASIN, G.A.; MENUSHENKOV, P.P.; PETROV, A.K.; OKHRIMOVICH, B.P.; DAVIDYUK,
V.N.; FILATOV, S.K.; VASIL'YEV, P.V.; LOKTIONOV, M.V.; GUREVICH, Yu.G.

New method of mold coating with petrolatum. Metallurg 5 no.5:21-24
My '60. (MIRA 14:3)

1. Zlatoustovskiy metallurgicheskiy zavod i Chelyabinskiy
politekhnikheskiy institut.
(Ingot molds) (Petrolatum)

LOPATIN, S.F., starshiy laborant; FETROV, A.K., dotsent

foreleg muscles of elks and cattle. Sbor. nauch. trud. Ivan.
sel'khoz. inst. no. 16:219-226 '58. (MIRA 13:11)

1. Kafedra anatomii i fiziologii sel'skokhozyaystvennykh
zhivotnykh Ivanovskogo sel'skokhozyaystvennogo instituta
(for Lopatin).
(Elk) (Cattle) (Extremities (Anatomy))

PETROV, A.K¹.dotsent

Changes in the body build of elks and cattle during ontogenesis.
Sbor.nauch.trud. Ivan.sel'khoz.inst. no.16:171-203 '58.
(MIRA 13:11)

1. Kafedra anatomii i fiziologii zhivotnykh Ivanovskogo
sel'skokhozyaystvennogo instituta.
(Cattle--Anatomy) (Elk)

PETROV, A.K., dotsent

Regular features in the increase of the live weight of elk
and cattle. Sbor.nauch.trud. Ivan.sel'khoz.inst. no.16:204-
210 '58. (MIRA 13:11)

1. Kafedra anatcmii i fiziologii zhivotnykh Ivanovskogo
sel'skokhozyaystvennogo instituta.
(Elk) (Cattle)

VISHNEVSKAYA, M.D., assistant; PETROV, A.K., dotsent

Anatomical characteristics of the gastrointestinal tract in
elks. Sbor.nauch.trud. Ivan.sel'khoz.inst. no.16:211-218
'58. (MirA 13:11)

1. Kafedra anatomii i fiziologii sel'skokhozyaystvennykh
zhivotnykh Ivanovskogo sel'skokhozyaystvennogo instituta (for
Vishnevskaya).

(Elk) (Stomach) (Intestines)

PETROV, A.K.

Characteristics of individual development of the heart of moose.
Zool. zhur. 40 no.3:447-453 Mr '61. (MIRA 14:3)

1. Department of Anatomy and Physiology, Ivanova Agricultural
Institute.
(Moose) (Heart)

KUZNETSOV, N.A.; PETROV, A.K.

"Agriculture" pavilion. Zemledelie 8 no.9:73-80 S '60.
(MIRA 13:8)

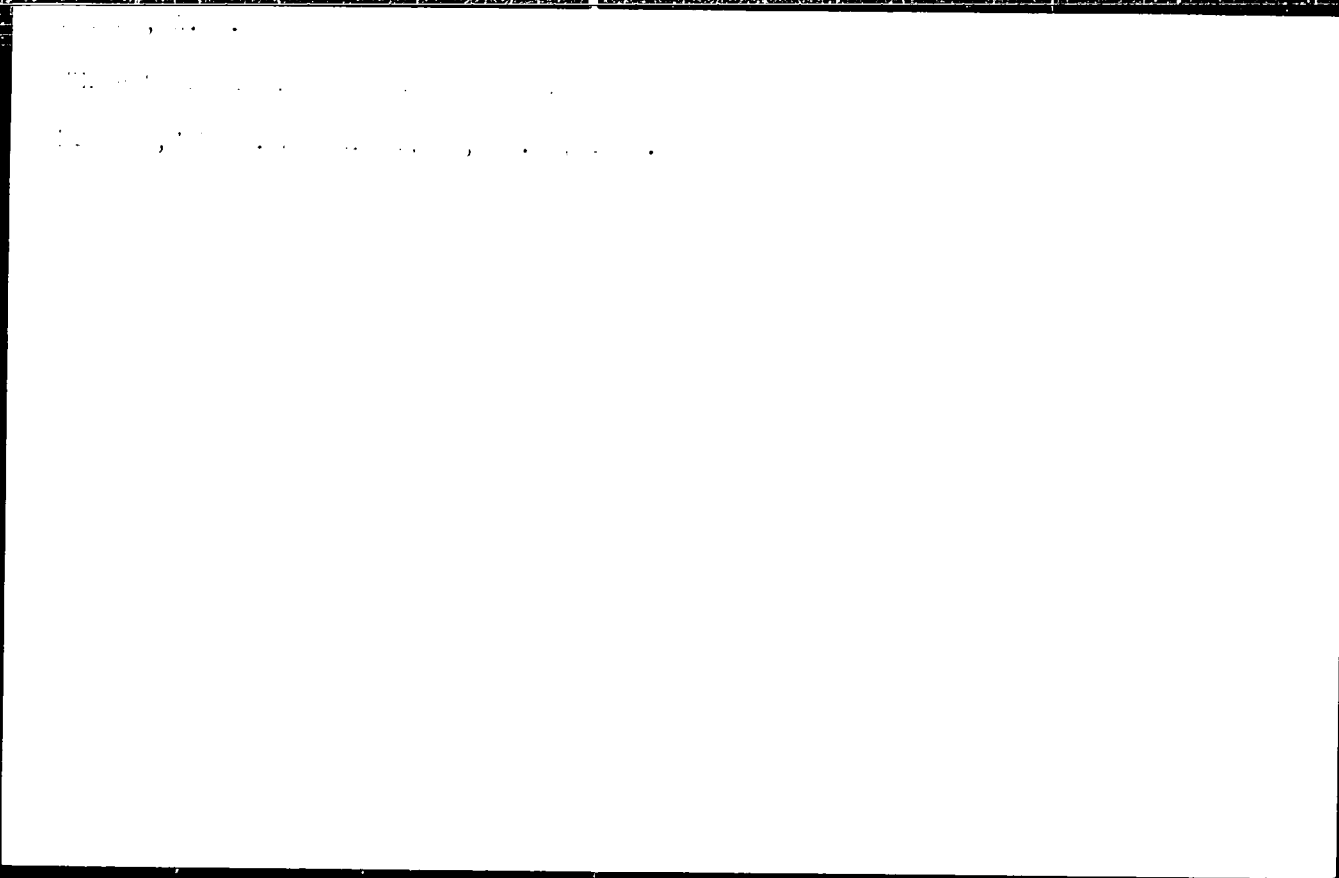
1. Direktor pavil'ona "Zemledeliye" Vystavki dostizheniy
Narodnogo khozyaystva (for Kuznetsov). 2. Glavnyy metodist
pavil'ona "Zemledeliye" Vystavki dostizheniy Narodnogo
khozyaystva (for Petrov).
(Moscow--Agricultural exhibitions)

PETROV, A. L.

Effect of blood transfusion on renal function. Sovet. vrach. sborn.
No. 18, 1949. . 12-4

1. Third Surgical Department GIDUV (Acting Head--Prof. N. I. Blinov).

GLML 19, 5, Nov., 1950



188T77

USSR/Medicine - Blood Transfusion Mar 51

"Transfusion of Blood and Solutions as a Remedy for Traumatic Anuria," A. L. Petrov, Chair of Secondary Surg. State Order of Lenin Inst for Advanced Training of Physicians

"Vest Khirurgii" Vol LXXI, No 4, pp 21-24

Blood transfusions are excellent means for restoring urine secretion, interrupted at time of operation or as result of trauma, and for preventing anuria. Dropwise transfusion is most effective against anuria in some cases. Much better results are obtained by combination of dropwise blood transfusion and infusion of anti-

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USSR/Medicine - Blood Transfusion Mar 51
(contd)

shock solns (al. glucose) in restoring kidney function. Good results are achieved if the blood and the soln are administered no faster than 15-20 ml per min. At higher rates of infusion, shock may be produced. In connection with this work, a number of patients who received transfusions of incompatible blood was observed. This group was being treated by this means for trophic ulcers of the shins. In the majority of cases, these patients developed anuria as result of hemolytic shock (spasms of renal vessels).

188T77

PETROV, A. L.

1964, 1965.

"Function of the
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Survey of scientific
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Б. 1987, 11: 7-10, 11: 11-12, 12: 13-14.

Gastrointestinal disease in a zebu, and the effect of
Izv. Vet. inst. zhar. parazit. 1987, 11: 13-14, 15.

PETROV, A.L. (Leningrad, ul. Saltykova-Shehedrina, d. 48, kv. 22)

Posttransfusion complications following transfusion of Rh-positive blood. Vest.khir. 75 no.3:112-113 Ap '55. (MLRA 8:7)

1. Iz kafedry II khirurgii (zav.-prof. N.N.Smarin) Gosudarstvennoe ordena Lenina usovershenstvovaniya vrachey im. S.M.Kirova

(Rh FACTORS,

incompatible blood transfusion, compl.)

(BLOOD TRANSFUSION,

Rh incompatibility)

PETROV, A.L., doktor meditsinskikh nauk (Leningrad, ul. Saltykova-Shchedrina,
48, kv. 22)

Symptoms of anuria in mechanical trauma and acute abdomen. Vest.khir.
78 no.1:90-93 Ja '57. (MLRA 10:3)

1. Iz 2-y kafedry khirurgii (zav. - prof. G.A.Gomzyakov) Lenin-
gradskogo ordena Lenina instituta usovershenstvovaniya vrachey im.
S.M.Kirova.

(ANURIA, etiol. and pathogen.
trauma & acute abdomen, contraindic. for surg.)

(ABDOMEN, ACUTE, compl.
anuria, contraindic. for surg.)

(WOUNDS, AND INJURIES, compl.
same)

PETROV, A.L., prof.

On the 60th birthday of Professor Nikolai Il'ich Blinov. Vest.khir.
83 no.9:151-152 S '59. (MIRA 13:2)
(BIOGRAPHIES)

VSEVOLOZHKAYA, Ye.V.; ... Ye.; ...

Dibutyltetrachlorophthalate as a stationary phase in the
gas-liquid chromatography of hydrocarbons. *Neftekhimiya* 4
no.1:142-150 Ja-F'64 (XIF 1116)

1. Institut geologii i razrabotki gornykh iskopayemykh
Gosudarstvennogo komiteta SSSR po khimii.

BAGRIY, Ye.I.; PETROV, Al.A.

Effect of the substitution degree of cyclohexane ring on the liquid phase dehydrogenation rate of high molecular weight hydrocarbons. Izv. AN SSSR. Ser. khim. no.11:2060-2061 1969. (MIRA 12:1)

1. Institut neftekhimicheskogo sinteza AN SSSR i Institut geologii i razrabotki koryuchikh iskopayemykh.

TETERINA, M.P.; PETROV, A.I.A.

C - H stretching vibrations of alkanes, aromatic and phenylcycloane hydrocarbons. Neftekhimiia 3 no.4:451-455 J1-Ag '63. (MIRA 14:11)

1. Institut neftekhimicheskogo sinteza AN SSSR imeni A.V. Topchiyeva i Institut geologii i razrabotki goryuchikh iskopayemykh Gosudarstvennogo komiteta po toplivnoy promyshlennosti pri Gosplane SSSR.

TETERINA, M.P.; PETROV, A.I.A.

Infrared absorption spectra of mixed high-molecular hydrocarbons. Report No. 1: Spectra of C₂₄ mono-, di- and tri-cyclohexylalkanes. Neftekhimia 1 no.3:309-316 My-Je '61.
(MIRA 16:11)

1. Institut neftekhimicheskogo sinteza AN SSSR.

CHIMANKI, N.A.; CHIMANKI, A.A.

1. Stravinskii, Dmitrii Ivanovich. *Op. 10, No. 1, "The Fire of the Angels"*.
and *Op. 10, No. 2, "The Fire of the Angels"*. My. 10. 10. 10.
MIRA (1911)

2. *Op. 10, No. 1, "The Fire of the Angels"*. AN. 10. 10.

PETROV, A.I.A.; BATALIN, O.Ye.; MIKHNOVSKAYA, A.A.; BEDOV, Ya.A.; KASAV-
CHENKO, I.I.; PUSTIL'NIKOVA, S.D.

"Dispersion coefficients" of high-boiling hydrocarbons of a
mixed structure. *Neftekhimiya*, no.6:924-927 N-D 63. (MIRA 17:3)

1. Institut geologii i razrabotki koryshekhn iskopayemykh zemel'nykh
vennogo komiteta SSSR po toplivnoy promyslnosti i Leningradskiy
gosudarstvennyy universitet im. A.A.Zhdanova.

ACCESSION NR: AP4044551

S/0204/64/004/004/0521/0529

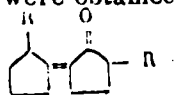
AUTHOR: Stukanova, L. N., Zhdanova, N. V., Yepishev, Vi. I., Petrov, Al. A

TITLE: Synthesis and properties of hydrocarbons of the dicyclopentyl series

SOURCE: Neftekhimiya, v. 4, no. 4, 1964, 521-529

TOPIC TAGS: hydrocarbon, dicyclopentyl, self-condensation, ketone, alkylation, aldehyde, 2-alkylcyclopentanone, 2-alkyl-5-(2-alkylcyclopentylidene)-cyclopentanone

ABSTRACT: Thirteen homologs of dicyclopentyl, with 11-24 C atoms, were synthesized with special regard to the polysubstituted dicyclopentyls, the presence of which in crude oils is very probable. For the synthesis of dicyclopentyl derivatives, the well-known self-condensation of cyclopentanone was used resulting in 2-cyclopentylidene-cyclopentanone. From this ketone a series of homologs of dicyclopentyl with different radicals having 1-14 C atoms were obtained. Then, by self-condensation of 2-alkylcyclopentanones, ketones of the type

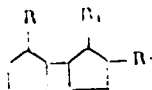
(where $R = C_1H_3, C_2H_5, C_3H_7$).

were obtained, which were converted directly or by the Grignard reaction to hydrocarbons

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ACCESSION NR: AP4044551

of the type:



The 2-alkylcyclopentanones necessary for the reaction were obtained by alkylation of cyclopentanone with aldehydes (propionic, butyric and enanthic). The properties and names of the synthesized hydrocarbons are tabulated. The Grignard reaction was carried out with both unsaturated ketones and a saturated ketone-cyclopentylcyclopentanone. With unsaturated ketones, the yield of tertiary alcohols was much higher. The chromatogram of 1-methyl-2-cyclopentylcyclopentane, obtained by the reaction of methyl-magnesium iodide with both unsaturated and saturated ketones, is given. In both cases, the identical mixture of trans and cis-1-methyl-2-cyclopentylcyclopentanes were obtained. Initial products for the preparation of 1-tetradecyl-2-cyclopentylcyclopentane were cyclopentylidenecyclopentanone (b.p. 127-128C/17 mm Hg, $n_D^{20} = 1.5210$, 99% ketone) and tetradecyl bromide (b.p. 178-179C/22 Hg, $n_D^{20} = 1.4596$). The yield was 38%. 1-methyl-1-ethyl- and 1-hexyl-2-cyclopentylcyclopentanes were prepared in an analogous manner in yields of 25.18 and 10%, respectively. The preparation of 2-alkylcyclopentanones by alkylation of cyclopentanone with aldehydes is more advantageous and gives better results than the

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ACCESSION NR: AP4044551

earlier method involving alkylation of the sodium derivative of carbethoxycyclopentanone by alkyl halides with subsequent ring opening and cyclization of the alkyl adipic acids. The alkylation with enanthol, yielding 2-heptylcyclopentanone; and the alkaline self-condensation of 2-butylcyclopentanone are given as model reactions. The properties of the heptyl-, propyl- and butyl-cyclopentylidene cyclopentanones are tabulated, and self-condensation of alkylpentanones is described in detail. The chemical pathway of the preparation of hydrocarbons of the type 1-alkyl-3-(2-alkylcyclopentyl)-cyclopentane is given, and the preparation of 1-propyl-2-(3,4-dimethylcyclohexyl)-3-(2-propylcyclopentyl)-cyclopentane is described in detail. A fraction boiling at 174-175C was obtained from the resulting product by fractional distillation. Orig. art. has: 2 figures, 3 tables and 2 chemical equations.

ASSOCIATION: Institut geologii i razrabotki goryuchikh iskopayomy*kh (Institute of Geology and the Development of Fossil Fuels)

SUBMITTED: 20Dec63

ENCL: 00

SUB CODE: OC

NO REF SOV: 004

OTHER: 010

Card 13/3

SANIN, P.I.; BAGRIN, Ye.I.; PATKOV, A.A.; NIETSKAYA, Ye.A.; DOLILINA, A.I.

Исследования по синтезу новых полимерных материалов.
Вып. 1. М.: ХИМДЕЛ, 1963. 176 с.

1. Институт нефтехимии и синтеза АН СССР. А.Т. Шипилова
и Институт химии и разработки полимеров АН УССР.

D'YAKOVA, T.V.; PETROV, A.I.A.; POLAK, L.S.; CHERNYAK, N.Ya.

Mass spectra of isomeric tetradecanes. Neftekhimija 3 no.2:
169-172 Mr-Ap '63. (MIRA 16:5)

1. Institut neftekhimicheskogo sinteza AN SSSR imeni A.V.Topchlyeva.
(Tetradecane--Spectra)

L 62085-65 EFF(c)/ENT(m) Pr-4 RM

ACCESSION NR: AP5016836

UR/0204/65/005/003/0313/0319

547.626+547.514.71:542.952.1:547.659.1

AUTHORS: Delone, I. O.; Stukanova, L. E.; Petrov, Al. A.TITLE: Isomerization of bicyclic naphthenes with isolated rings in the compounds of decalin seriesSOURCE: Kaftakhimiya, v. 5, no. 3, 1965, 313-319

TOPIC TAGS: hydrocarbon, isomeric transition, polycyclic compound, cyclic hydrocarbon, naphthenic ring, naphthalene/ KhV-1 chromatograph

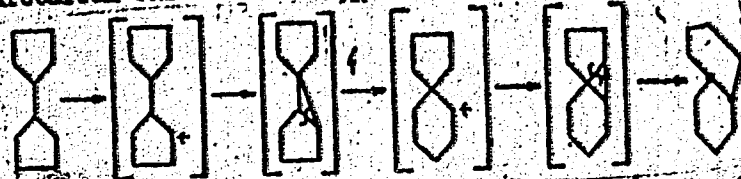
ABSTRACT: Kinetics and the mechanism of decalin formation were studied on bicyclic five- and six-member naphthenes of different structures and molecular masses (dicyclopentyl, cyclohexycyclopentane, and dicyclohexyl). Isomerization with $AlBr_3$ was conducted in a rocking vessel at 30°C. A 7% solution of $AlBr_3$ in n-nonane acted as a catalyst. The progress was studied by periodic sampling and by gas-fluid analysis in a KhV-1 chromatograph. The chromatogram of dicyclopentyl isomerization products, shown in Fig. 1 on the Enclosure, revealed that cis-decalin was the primary reaction product whose subsequent isomerization into trans-decalin was caused by its thermal instability at the experimental temperatures. The velocity

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ACCESSION NR: AP5016836

constant was calculated using the equation $k = (2.3/t) \cdot \log(1/x)$, where x is the initial hydrocarbon concentration. The process developed according to the scheme:



Methyl decalins were the end products of this reaction (their chromatograms are included). Special experiments with their dehydration showed that a mixture of alpha- and beta-methyldecalins was formed early in the reaction, and that more stable trans-methyldecalin was also formed. The diacyclohexyl isomerisation produced 70% of ethylnaphthalene with the prevalence of beta-ethylnaphthalene. Orig. art. has: 3 tables and 5 figures.

ASSOCIATION: Institut geologii i razrabotki goryuchikh iskopaemykh (Institute of Geology and Exploitation of Mineral Fuels)

SUBMITTED: 25Apr64

ENCL: 01

SUB CODE: 02, Ge

NO REF SOV: 008

OTHER: 001

Card 2/3

L 62085-65

ACCESSION NR: AP3016836

ENCLOSURE: 01

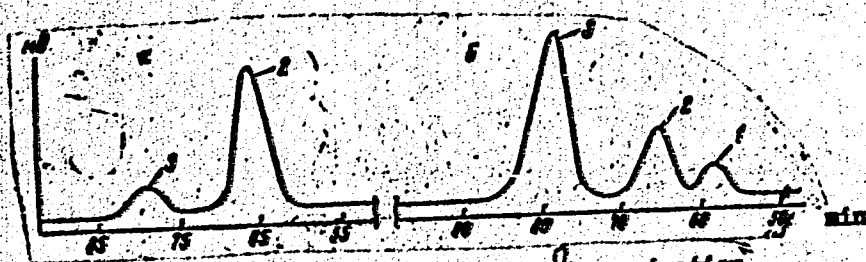


Fig. 1. Chromatogram of dicyclopentyl isomerization products. a- 10 min. reaction; b - 60 min. reaction; 1- trans-decalin; 2- dicyclopentyl; 3- cis-decalin

Card

3/3

SUBJECT, Given Names

Country:

Academic Degrees:

Affiliation:

Source:

Data:

GPO 9816*

PETROV, Al.A.; SANIN, P.I.; TSEBILINA, A.L.; BAGRIY, Ye.I.;
YEPISHEV, V.I.

Synthesis and properties of C_{24} cyclic hydrocarbons. Neftte-
khimiia 3 no. 4:465-471. Fl-Ag '63. (MIRA 15:11)

BAURIY, Ye. I., CA. [unclear] [unclear] A.

Brother [unclear] of [unclear] [unclear] [unclear].
Neftekhimika 3 no. 4456-464 JL-Ag 162. (MIRA 1971)

1. Institut khimicheskogo sredstva IN KSP imen A V
Topolovskogo Institut geologii i razvedki goryuchikh
iskopayemiy [unclear] [unclear] [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear] [unclear].

PETROV, A.L.

Use of anti-edema and anti-inflammation therapy in occlusion of
the anastomosis after resection of the stomach. Vest. khir. 24
no.5:93-95 My '60. (MIA 13:12)
(STOMACH--SURG.RY)

PETROV, A.M., gornyy inzhener (g.Stalino)

About A.G.Gusev's article "Organizing a mining cycle."

Ugol' 30 no.6:44-45 Je '55.

(MIRA 8:8)

(Coal mines and mining)

Petrov, A. I.
Institute of Biology, Yakut Affiliate, AS SSSR.
On the classification of natural pastures in the Yakutias
of Yakutia

Izv. Vsesoyuzn. nauch. ts. zap. 1967, fl. AS SSSR, 1967, vyp. 3, 157-166.

On the basis of the generalization of published data and of the results of the surveys of their own, the Institute of Biology, Yakut Affiliate, AS SSSR presents an outline of the groupings of the natural pastures in Yakut SSR. The following types of pastures are distinguished: 1) those transformed into steppes, 2) those on saline soils, 3) dry valley pastures, 4) swamped pastures, 5) pastures on the timber cut and burned-out areas, 6) forest pastures, 7) in brushwood, 8) hay-mowing aftermath. The following is re-

1/2

PETROV, A.M., uchitel'

Experiments with plants in studying the fundamentals of Darwinism.
Biol. v shkole no.5:45-59 S-0 '58. (MIRA 11:11)

1. Shkola No.38, Leningrad.
(Botany--Study and teaching)

1. 221-56/MSPKhP

TSALIMAN, L.B., inzhener; CHESNUNOV, A.S., kandidat tekhnicheskikh nauk; PETROV, A.M., inzhener; GILLER, Ye.M., inzhener; KOVAL'CHUK, M.P., inzhener, redaktor; PASTUKOVA, V.V., redaktor izdatel'stva; LAOUTIKOVA, I.M., tekhnicheskij redaktor

Instructions for making steel structures of low-alloy steel, type NL2 (I221-56/MSPKhP). Instruktsiia po izgotovleniiu stal'nykh konstrukttsii iz niskolegirovannoi stali mark. NL2 (I 221-56/MSPKhP). Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekt., 1957. 29 p. (CIA 10 11)

1. Tsentral'naya nauchno-issledovatel'skaya laboratoriya stal'nykh sooruzheniy Gosudarstvennogo projektogo instituta po yezhstal'no-konstrukttsii Minmetallurgicheskoy SSSR (for TSALIMAN, L.B., Petrov, Giller). 2. Rossiya (U.S.S.R.) - U.S.S.P. (U.S.S.P.) Ministerstvo stroitel'stva predpriyatij metallurgicheskoy i khimicheskoy promyshlennosti. Tekhnicheskoye upravleniye. 3. Otdel normativnykh dokumentov Tekhnicheskogo upravleniya Ministerstva stroitel'stva predpriyatij metallurgicheskoy i khimicheskoy promyshlennosti SSSR (for KOVAL'CHUK)

(Steel alloys) (Building)

PISITSYN, M.Ye., kand.tekhn.nauk; BOL'SHAKOV, K.P., kand.tekhn.nauk;
CHESNOKOV, A.S., kand.tekhn.nauk; BAT', A.A., inzhener;
PETROV, A.M., inzhener.

Increasing the vibration strength of welded structural components
made of NL 2 low-alloy steel. Stroi.prom. 35 no.7:21-26 J1 '57.
(MIRA 10:10)

(Steel, Structural)

BABAYANTS, R.A., professor; BATMANOVA, G.Ya., kand.med.nauk; VOLKOVA, N.V.,
kand.med.nauk; KRYANOV, N.V., kand.med.nauk; LYKOVA, A.S., kand.
med.nauk; MASLOVNIKOVA, T.K., kand.med.nauk; KUDAYKO, I.A., kand.
med.nauk; TOMILINA, K.A., kand.med.nauk; SHISTOVSKIY, S.P., kand.
med.nauk; KIRPICHNIKOV, M.P., sanitarnyy vrach; MAKHINENKO, A.I.,
sanitarnyy vrach; OSOPEPKOV, A.A., sanitarnyy vrach; PETROV, A.M.,
sanitarnyy vrach; KOSHALI, M.A., sanitarnyy vrach; SHEPILIN, O.P.,
sanitarnyy vrach.

Sewage irrigation: problems and sanitation of natural waters. Sig.
1 san. SP no.9:1987-1988. (MIRA 1:11.)

1. Zaved yustitsey kafedroy Oshchey Gigiyey Leningradskoy
sanitarno-gigiyenicheskoy meditsinskoy instituta, nauchnyy
korrespondent A.M. BABAYANTS)

(WATER SUPPLY WATER POLLUTION)

sanitary protection of water reservoirs in view of sewage
water irrigation)

(LITERATURE)

same.

PETROV, A.M.

Содержание и структура информации по состоянию на 1985 г. (1985 г.)
Содержание: 1. Страны Европы. 2. Страны Азии. 3. Страны Африки. 4. Страны Латинской Америки.

1. Страны Европы. Новостное издание по управлению вывези.

SOV/111-58-4-29/74
AUTHORS: Petrov, A.V., Safety Engineer at the USSR; Mogilevskiy, A.I.,
Employee Responsible for Safety Engineering

TITLE: Critique and Bibliography (Kritika i bibliografiya,
PERIODICAL: Vestnik svyazi, 1978, Nr. 3, pp 34-35 (USSR)

ABSTRACT: This is a review of the book "Pravila tekhniki bezopas-
nosti pri rabotakh na vozdushnykh liniyakh svyazi i liniyakh
radiotranslyatsionnykh setey" (Rules for Safety Engineering
for Work on Air Communication Lines and Lines of the
Radio Relay Network).

1. Communication systems--Safety measures
2. Literature

Card 1/1

PETROV, A.M.

Simple laboratory automatic 24-hour measuring hopper for small concentrations of carbon monoxide. Lab.delo 5 no.6:50-51 N-D '59.

(MIRA 13:3)

1. Iz k afedry obshchey gigiyeny (zaveduyushchiy - chlen-korrespondent AMN SSSR prof. R.A. Babayants) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

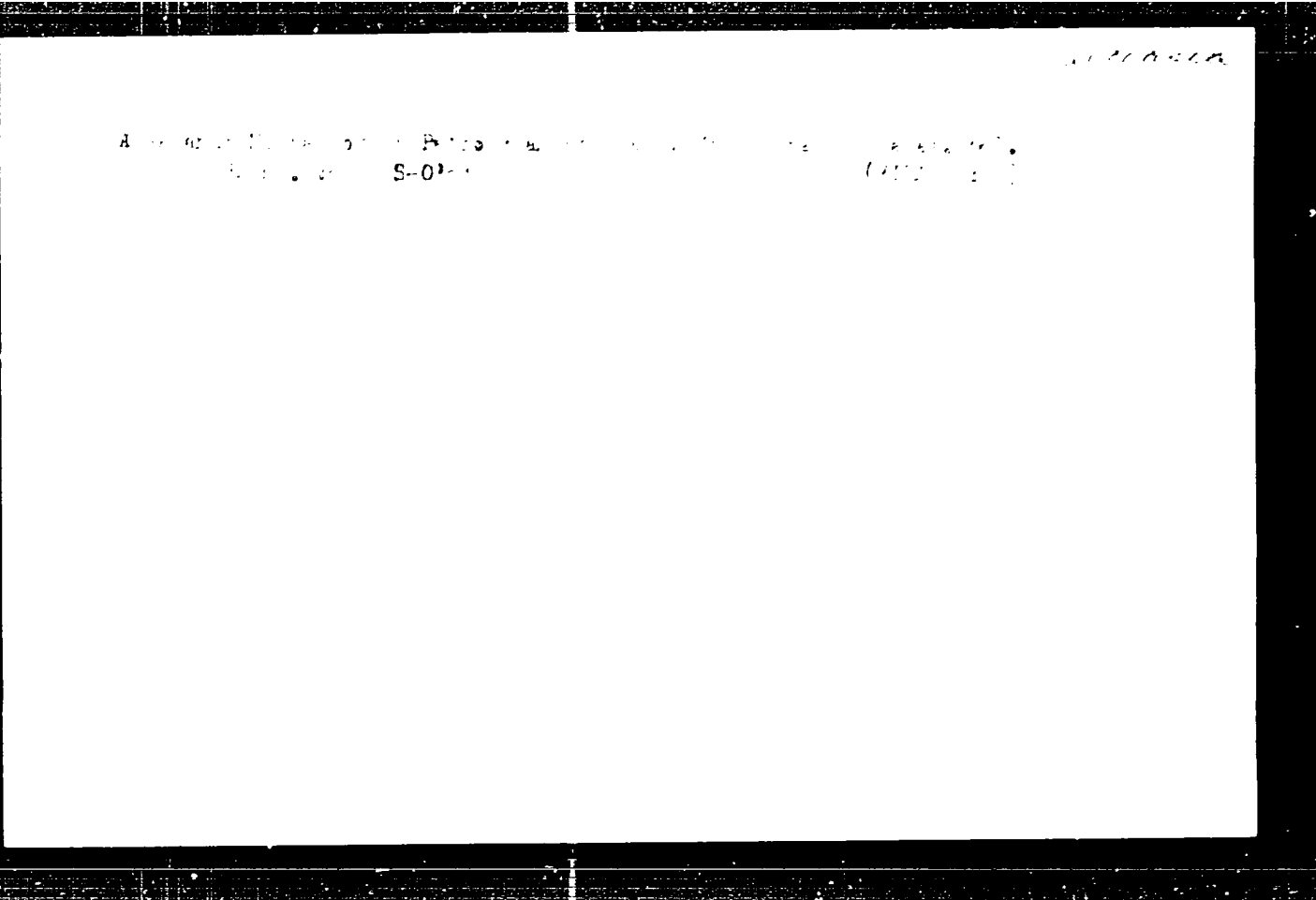
(LABORATORIES--APARATUS AND SUPPLIES)

PETROV, A. M.; LUKASHENKO, N. P.

Role of cats in the epidemiology of echinococcosis and alveo-
coccosis. Med. paraz. i paraz. bol. no. 2:223-228 '62.
(MIRA 15:7)

1. Iz Vsesoyuznogo instituta gel'mintologii imeni akad. K. I.
Skryabina (dir. - prof. V. S. Yershov) i Instituta meditsinskoy
parazitologii i tropicheskoy meditsiny imeni Ye. I. Martsinovskogo
(dir. - prof. P. G. Sergiyev) Ministerstva zdravookhraneniya
SSSR.

(CATS AS CARRIERS OF DISEASE) (TAPEWORMS)

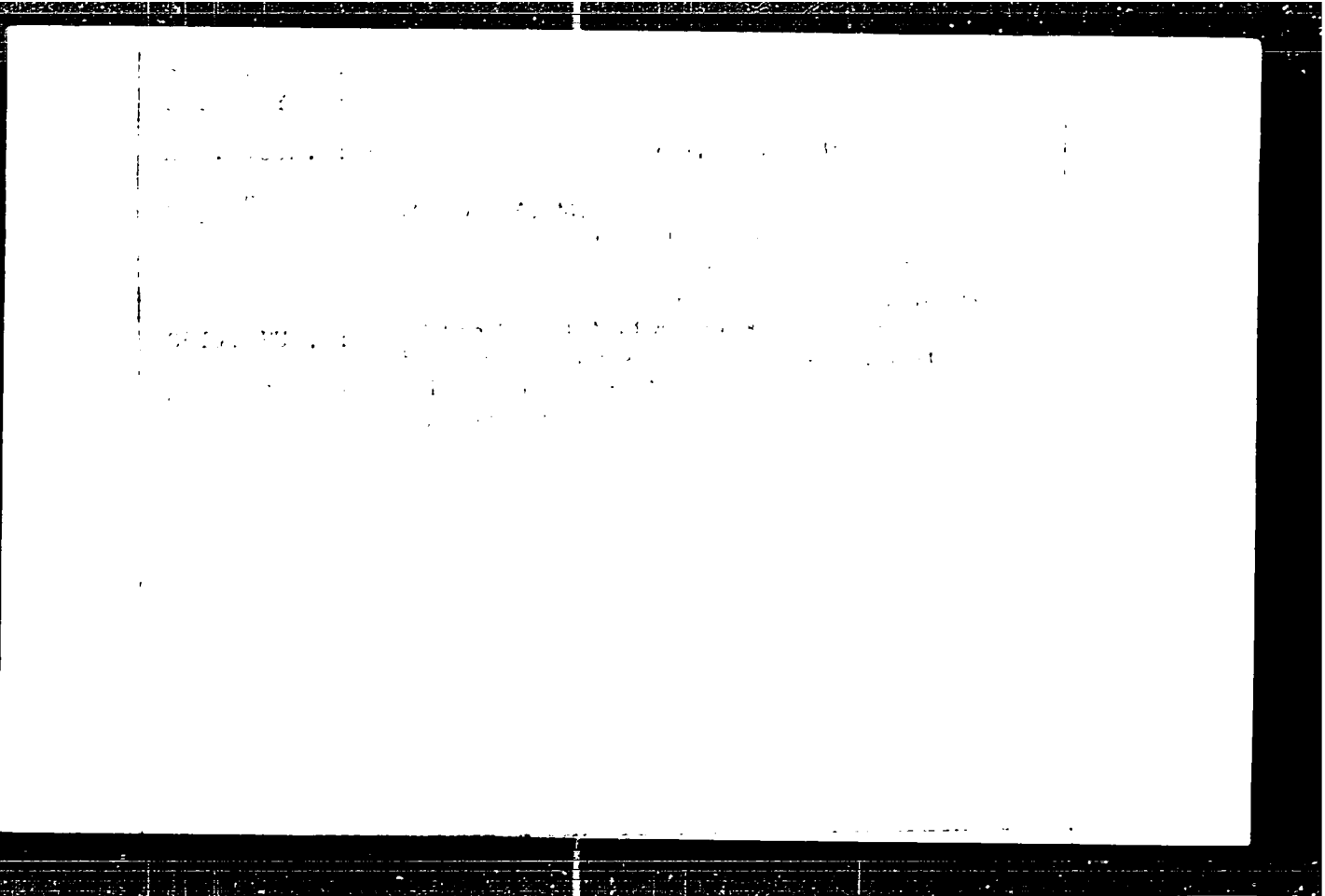


GUSHANSKAYA, L.Kh., red.; PARAMONOV, A.A., red.; ~~PETROV, A.M., red.;~~
POD*YAPOL'SKAYA, V.P., red.; SPASSKIY, A.A., red.; SHIKHOBALOVA,
M.P., red.; IVASHKIN, V.M., red. izd-vo.; POLYAKOVA, T.V., tekhn. red.

[Papers on helminthology; on the 80th birthday of Academician
K.I.Skriabin] Raboty po gel'mintologii; k 80-letiu akademika
K.I.Skriabina. Moskva, Izd-vo Akad. nauk SSSR, 1958. 415 p.

(MIRA 11:12)

1. Vsesoyuznoye obshchestvo gel'mintologov.
(WORMS, INTESTINAL AND PARASITIC)



YERSHOV, V.S., otv.red.; GNEDINA, M.P., red.; PETROV, A.M., red.;
POD*YAPOL'SKAYA, V.P., red.; SHUMAKOVICH, Ye.Ye., red.;
KARTASHEVA, N.M., red.; ANTONOVA, N.M., khudozh.-tekh.n.red.

[Works on helminthology; on Academician K.I.Skriabin's 80th
birthday] Raboty po gel'mintologii; k 80-letiu akademika
K.I.Skriabina. Moskva, Izd-vo M-va sel'.khoz.SSR. No.1.
1959. 217 p. (MIRA 13:4)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni
V.I.Lenina.

(Worms, Intestinal and parasitic)

PETROV, A.M., inzh.; LUKASHEVA, T.T., inzh.

Granular composition of products obtained by the use of jaw
crushers, cone, short-shaft cone, and rotary crushers in the pro-
cessing of carbonate rocks. Sbor. trud. NIIZHelezobetona no.8:
36-44 '63 (MIRA 18:1)

SECRET, etc.

... ..
... ..

PETROV, A.M., prof. [deceased]

Summing up the results of the studies on control measures
against helminthiases of fur-bearing animals on fur farms of
the U.S.S.R. Trudy VIKI 11:139-150 1952. (MIR, 1951)

PETROV, A.M. [deceased]; BAYANOV, M.G.

Helminths of squirrels of Eastern Siberia. Nauch. dokl. vys.
shkoly; biol. nauki no.2:18-21 '65. (MIRA 18:5)

1. Rekomendovana kafedroy zoologii i darvinizma Bashkirskogo
gosudarstvennogo universiteta.

1915, ...
A.I. ...
M. ...
Aleksandr ...
nauki i tekhn. ...
retirement; ...

(Name ...
...
...
...)

SUBBOTINA, A.I.; YEFIMOVA, Ye.S.; PETROV, A.M.

Radiometric determination of the peak areas of yield curves obtained
in the chromatographic separation of Ag^+ and Cd^{2+} . Trudy po khim.
khim.tekh. no.1:53-55 '63. (MIRA 17:12)

SUBBOTINA, A.I.; YEFIMOVA, Ye.S.; PETROV, A.M.

Chromatographic separation of silver and cadmium. Trudy po khim. i
khim.tekh. no.1:106-109 '63. (MIRA 17:12)

SUBBOTINA, A.I.; PETROV, A.M.; KUBATKINA, G.I.

Chromatographic concentration of radioisotopes and various substances
in dilute solutions. Report No.2. Trudy po khim.i khim.tekh. no.1:110-
113 '63. (MIRA 17:12)

CHEBNOBUKOV, N.G.; PETROV, A.M.

Chromatography for separation of air filter from the...
ion exchangers of Soviet manufacture. Study to...
114-117 '63. (MIRA 17:1)

SUBBOTINA, A.I.; ARKHANGEL'SKAYA, Ye.A.; PETROV, A.M.

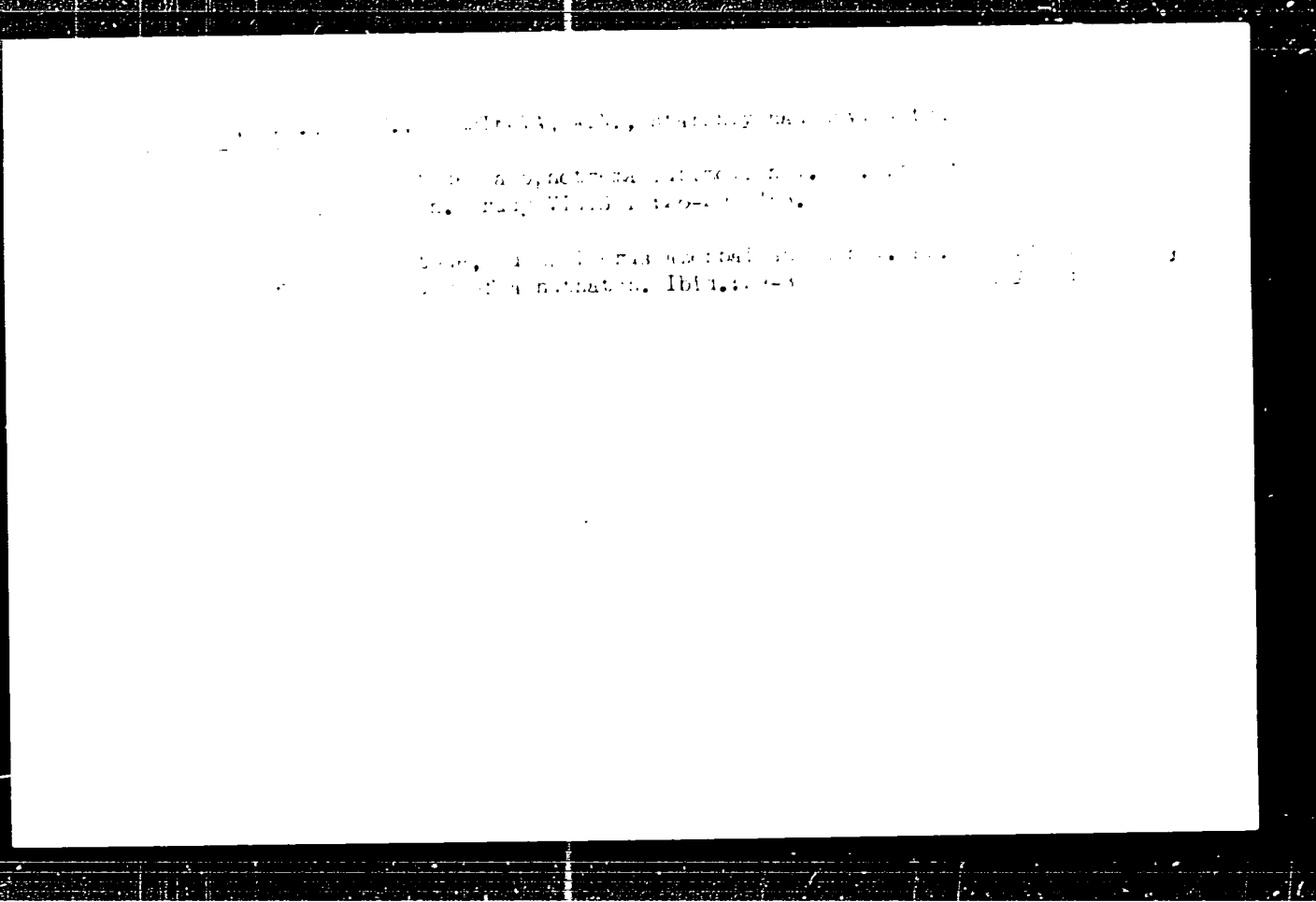
Chromatographic separation of sulfate and carbonate ions. Zhurnal
khim. i khim. tekhn. no. 1:118-120 '63. LITERA 17:12

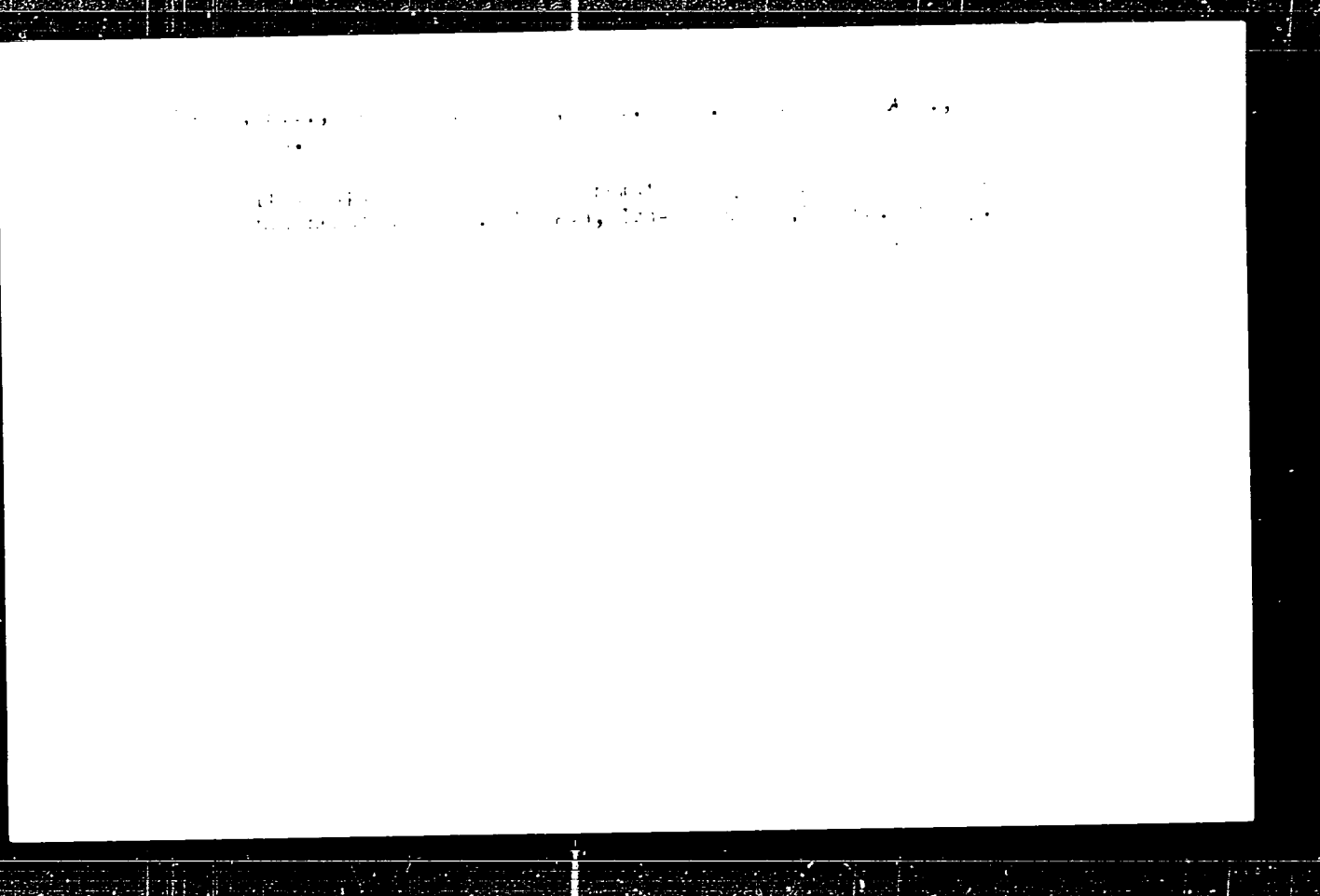
GENKIN, August Emmanuilovich; VARLANOV, I.A., retirement; PETROV,
A.L., retirement; BOCHAROVA, Y.E., red.

[Equipment of chemical plants: sbornikovarie klina] beskimi
zav. nov. Moskva, Vysshain shkola, 1966. 327 p.
(MIRA 18:5)

... ..

... ..





PETROV, A.M.

Improving the reliability of the MShenP-54 regulating millivolt-
meter. Priboestroenie no. 7:39 11 163. (MIRA 16:9)

PETROV, A.M., inzh.

Reinforcing welded joints in structures under a weight. Prod.
stroil. 40 no.8:38-42 Ag '63. (MIRA 16:2)
(Welding)

KONSTANTINVA, M.P.; MYAKININ, Ye.V.; PETROV, A.M.; ROMANOV, A.M.

Angular distribution of protons from (α, p) reactions induced by
13-15 Mev. α particles. Zhur. eksp. i teor. fiz. 43 no.2:388-393
Ag '62. (MIRA 10:2)

1. Fiziko-tekhnicheskij institut imeni A.P.Ioffe AN SSSR.
(Nuclear reactions) (Alpha rays) (Protons)

LIKHACHEV, N.V., prof.; AGRINSKIY, N.I., prof.; SYURIN, V.N., prof.;
SPESIVTSEVA, N.A., prof.; KOLOBOLOTSKIY, G.V., prof.;
ZOLOTAREV, N.A., prof.; KHYAZHKOV, V.P., prof.; KOLESOV,
S.G., prof.; BABICH, M.A., prof.; ~~PETROV, A.M.~~, prof.; ZOTOV,
A.P., prof.; DOROFEYEV, K.A., prof.; POLYKOVSKIY, M.D., prof.;
SOLOMKIN, P.S., prof.; ORLOV, Ye.S., prof.; KOTOV, V.T., prof.;
TRILENKO, P.A., prof.; LYUBASHENKO, S.Ya., prof.; USACHEVA,
I.G., red.; YARNYKH, A.M., red.; BAIRD, A.I., tekhn. red.

[Veterinary laboratory practice] Veterinarnaya laboratornaya
praktika. Moskva, Sel'khozizdat. Vol. [General microbiological
methods of investigation] Obshchie mikrobiologicheskie metody is-
sledovaniia. 1963. 566 p. Vol.2. [Biochemical, chemico-
toxicological, and veterinary hygienic methods of investigation]
Biokhimicheskie, khimiko-toksikologicheskie i zoogigienicheskie
metody issledovaniia. 1963. 431 p. (MIRA 16:8)
(Veterinary laboratories)

BEL'SKIY, S.A.; MAKININ, Ye.V.; PETROV, A.M.; ROMANOV, A.M.; YUR'YEV, V.V.

Energy transfer to the wall of the discharge chamber of a
"Alpha" apparatus. Zhur.tekh.fiz. 33 no. 2:212-213 P '63.
(MIRA 16:5)
(Electric discharges through gases)

CHEBNOKOV, A.S., kand.tekhn.nauk; PETROV, A.M., inzh.

Changes in weld zone metal properties during the argon-arc welding
of ABT1, AMg6, B92, and ATSM alloys. Svar. proizvod. no. 110-18
Mr '63. (MIRA 16:3)

1. Gosudarstvennyy proyektnyy institut po proyektirovaniyu,
issledovaniyu i ispytaniyu stal'nykh konstruktsiy i mostov.
(Aluminum alloys--Welding) (Thermal stresses)

PETROV, A.M., uchitel' (Leningrad)

Student help to fisheries. Biol. v shkole no.5:64-66 S-C '62.
(MIRA 16:2)

(Fish culture)

(Student activities)

PETROV, A. M.

"Epizootology and Epidemiology of Scrinococciasis in the Light of
the Latest Scientific Information"

from Bor'bas Bolaznyarni, Obschchimi Dlya Cheloveka i Zhivotnykh (Zoonzy)
Moscow 1961.

PETROV, A.M., inzh.

Improving the process of treating a quantity of sand and gravel
at the Drovninskaya and Vyazemskaya plants. Sbor. trud.
NII Zhelezobetona no.7:54-70 '62. (MIRA 16:1)
(Sand and gravel plants)

S/057/63/033/002/C12/023
B108/B186

AUTHORS: Bel'skiy, S. A., Lyubimov, Ye. V., Retrov, A. A.,
Romanov, A. M., and Gur'yev, V. V.

TITLE: The energy transfer to the wall of the discharge chamber in
the "Alpha" machine

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 33, no. 2, 1963, 212 - 213

TEXT: The energy was measured with integral-type semiconductor and wire
bolometers connected to a measuring bridge. The vacuum in the discharge
plasma was $5 \cdot 10^{-5}$ - $2 \cdot 10^{-5}$ mm Hg. The energy measured by the detectors
rises monotonically with the voltage at the discharge capacitor battery.
This dependence is slightly less than in accordance with a square law.
Experiments with scintillation and boron counters and with a $CaSO_4$ -an
thermo-luminophor showed that the energy transferred to the wall by short-
wave electromagnetic radiation is not more than 10% of the plasma energy.
A larger part of energy lost to the walls must be due to other processes
(neutral particles; ZhTF, 30, 12, 1419, 1960).

SUBMITTED: April 9, 1962
Card 1/1

PETROV, A.M.; BAYANOV, M.G.

Syphacia (*Symphatineria*) *toschevi* sp. n., a new nematode from
the intestines of a squirrel. Zool.zhur. 41 no.7:1103-1106
Jl '62. (MIRA 15:11)

1. U.S.S.R. Institute of Helminthology, Moscow and Agricultural
Institute, Irkutsk.
(Parasites—Squirrels) (Nematoda)

PETROV, A.M.

Angular distribution of α -particles from the reaction Li^7
(p, α) He^4 . Zhur. eksp. i teor. fiz. 43 no.1:66-69. 1962.
(MIRA 15:9)

1. Leningradskiy fiziko-tekhnicheskii institut AN SSSR.
(Nuclear reactions) (Alpha rays)

FLYUYEV, G.M., kand. tekhn. nauk; YUNITSKAYA, Ye.I., starshiy inzh.;
RYAPOVA, E.Ya.; Prinsipal'nyy sobesedye: PETROV, A.M.; SHISHKIN, V.P.;
KNAUS, G.M.; KUSKOVA, E.A.; STEPANOVA, I.G.; KALINKIN, V.P.;
BOBKOVA, M.P.; SAKHAROV, V.P.; KROLOV, M.P.; LUKASHOVA, E.I.;
SAVKIN, F.S.

Grain-size distribution of the material produced by crushing
Sbor. trud. NIIZhelezobetona no. 197-86. 1986. (MIRA 1986)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut zhelezobeton-
nykh izdelii, stroitel'nykh i nerudnykh materialov (for Krolov,
Shishkin, Knauz, Kusakova, Stepanova, Kalinkin, Bobkova, Sakharov,
Krolov, Lukashova, Savkin).

(Stone, Crushed)

LYUBASHENKO, Sergey Yakovlevich, prof.; PETROV, Aleksandr Mikhaylovich,
prof.; BESKHLEBNOV, Yu.A., red.; DEYEVA, V.I., tekhn. red.

[Diseases of fur-bearing animals] Bolezni puštrykh zverei. Mo-
skva, Sel'khozizdat, 1962. 214 p. (CIA 1:11)
(Fur-bearing animals--Diseases and pests)

PETROV, A.M., prof., doktor veterinarnykh nauk

Application of chenopodium oil in veterinary helminthological
practice. Trudy VIGI# 6:240-245 '59. (MIRA 15:5
(Veterinary helminthology)
(Chenopodium oil)

AMENITSKAYA, N.V.; BATALOV, A.P.; GLAZOV, V.M.; KORSHUNOV, I.A., prof.;
KUTSEPII, V.F.; KOVTOLOVA, N.F.; SULOVA, A.A.; PETROV, A.M.;
SMAFIYEV, A.I.

[Problems in radiochemistry] Sbornik zadach po radiokhimii.
[By] N.V. Amenitskaia i dr. Pod red. I.A. Korshunova. Gor'ki, Gor'kovskii gos. univ. im. I.I. L'vachevskogo, 1969. 111 p.
(MIA 19:11)

.. Prepodavateli Khimicheskogo fakul'teta Gor'kovskogo gosudarstvennogo universiteta im. N.I. Lobachevskogo (for all)
(radiochemistry)