

VOLODIN, V.Ye.; DERESHKEVICH, Yu.V.; PAKHOMOV, N.M.; PASECHNIK, K.A.;  
BUKHARIN, Ye.V.; MOISEYEVA, Ye.I. Primalni uchastiye: GRISHIN,  
M.Ye., inzh.; PROTOSAVITSKAYA, Ye.A., inzh.; GOFEN, D.A., inzh.;  
VINARSKIY, V.I., inzh.; PLUTENKO, V.P., inzh.. MOSHCHANSKIY, N.A.,  
nauchnyy red.; TYAPKIN, B.G., red.izd-va; GURVICH, E.A., red.izd-va;  
MEDVEDEV, L.Ya., tekhn.red.

[Anticorrosive coatings for engineering structures and apparatus;  
a manual] Antikorroziinnye pokrytiia stroitel'nykh konstruksii  
i apparatury; spravochnoe posobie. Moskva, Gos.izd-vo lit-ry po  
stroit., arkhitekt. i stroit.materialam, 1959. 266 p. (MIRA 12:8)

1. Russia (1917- R.S.F.S.R.) Ministerstvo stroitel'stva. 2. Pro-  
yektno-konstruktorskoye byuro tresta Montazhkhimzashchita (for Volo-  
din, Dereshkevich, Pakhomov, Pasechnik, Bukhatin, Moiseyeva).  
(Protective coatings) (Factories--Equipment and supplies)

PROKOZANOV, A.K.

Tyumen' is a new unique base for the development of the oil and  
gas industries of the country. Gaz. prom. 10 no. 1-4 '65.

(MIRA 18:6)

PROTOZANOV, A.K.

Specialists in agriculture of Tyumen' Province in the struggle  
for the development of animal husbandry. Veterinariia 39 no.68  
21-26 Je '62 (MIRA 18:1)

1. Predsedatel' ispolnitel'nogo komiteta Tyumenskogo oblastnogo  
Soveta deputatov trudyashchikhsya.

PROPSAK, I.Ye.; PRIYMAK, V.A.; RUDAKOV, A.A.; SMOTRICH, A.B.; YUDITSKIY, D.G.

Manufacturing liquid fodder yeast from molasses waste and an  
experiment in feeding cattle. Spirt.prom. 25 no.1:36-38 '59.

(Yeast)

(Feeding and feeding stuffs)

(MIRA 12:2)  
(Molasses)

PROTSAY, F.I., kand. ekon. nauk; ANUZHIN, Yu.S., inzh.

Economizing materials and electric power by using new equipment  
and a new technology of coal mining. Trudy VNIIGidrouglia  
no.4:119-125 '64. (MIRA 18:3)

PIKTSKY, P. I., Izv. Vsesoyuzn. nauch. tsentra, Ser. 5, 1963.

Economic efficiency of agricultural and mining. Izv. Vsesoyuzn. nauch. tsentra, Ser. 5, 1963. (1963, 12 pp.)

1. Vsesoyuzny nauchno-issledovatel'skiy tsentr - Institut fizicheskoy khimii i teorii khimii, Moskva.

PROTSAY, F.

Achievements of the leading sector. Mast. ugl. 7 no.11:6-7 N '58.  
(MIRA 11:12)

1. Zamestitel' nauchal'nika planevoe otdela tresta Ošinnikiugol'.  
(Coal mines and mining)

PROTSAY, F.I., inzh.; KUSHNIR, V.P., inzh.

Selection of efficient operating conditions and productive capacity of hydraulic mines. Trudy VNIIGidrouglia no.2: 104-110 '63. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut dobychi uglya gidravlicheskim sposobom.



PROTSAY, F.I., inzh.; OGIYENKO, A.D., inzh.

Improving the use of turnover funds in converting to hydraulic mining. Izv. vys. ucheb. zav.; gor. zhur. 6 no.3:47-51 '63. (MIRA 16:10)

1. Khar'kovskiy institut gornogo mashinostroyeniya, avtomatiki i vychislitel'noy tekhniki. Rekomendovana kafedroy ekonomiki i organizatsii gornykh predpriyatiy.

PROTSAY, Fedor Ivanovich. Priginal uchastiye OGIYENKO, A.D., inzh.;  
SHELKOV, A.A., otv. red.; MIROSHNICHENKO, V.D., red. izd-va;  
OVSEYENKO, V.G., tekhn. red.

[Economics and production organization in underground hydraulic  
coal mining]Ekonomika i organizatsiia proizvodstva pri podzemnoi  
gidrodobyche uglia. Moskva, Gosgortekhnizdat, 1962. 226 p.

(MIRA 16:1)

(Hydraulic mining)

PROTSAY, F. I., inzh.; YEGOROVA, S. R., inzh.

Staff structure in hydraulic mines. Izv. vys. ucheb. zav.;  
gor. zhur. no.10:113-117 '61. (MIRA 15:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktor-  
skiy institut dobychi uglya gidravlicheskim sposobom.

(Hydraulic mining--Labor productivity)

PROTSAY, F.I.

Work organization eliminating idle hours. Ugol' 34 no.7:46  
J1 '59. (MIRA 12:10)

1. Treat Osinnikiugol'.  
(Kuznetsk Basin--mine management)

PROTSAY, F.I.

A new machine has been tested. Ugol' 34 no.8:64 Ag '59.  
(MIRA 12:12)

1.Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy  
institut dobychi uglya gidravlicheskim sposobom.  
(Coal mining machinery)

MASLOV, V. Ye., kand. tekhn. nauk; MARTINS, B. T., inzh.; PROTSAYLO, M. Ia.,  
inzh.

Burning of coal from the open pit mines of the Kuznetsk Basin  
in furnaces with liquid slag removal. Teploenergetika 11  
no. 1:7-10 Ja '64. (MIRA 17:5)

1. Vostochnyy filial Vsesoyuznogo teploekhnicheskogo  
instituta.

MASLOV, V.Ye., kand.tekhn.nauk; SAL'KOV, P.G., kand.tekhn.nauk; PROTSAYLO, M.Ya., inzh.; SMORGUNOV, M.P., inzh.; KROTOV, V.I., inzh.; OSTROMOV, A.M., inzh.; SHESTAKOV, V.M., inzh.

Experience in burning brown coals in wet-bottom furnaces with shaft-type impact mills. Teploenergetika 10 no.2:15-19 F '63. (MIRA 16:2)

1. Vostochnyy filial Vsesoyuznogo teplotekhnicheskogo instituta, Chelyabinsk, Krasnoyarskenergo i Vsesoyuznyy nauchno-issledovatel'skiy teplotekhnicheskii institut.  
(Boilers) (Furnaces) (Lignite)

MASLOV, V.Ye., kand. tekhn. nauk; PROTSAYLO, M.Ya., inzh.; OSTROUMOV,  
A.M., inzh.

Study of dust currents in the embrasure of a shaft mill  
operating on Kansk-Achinsk lignite. Teploenergetika 11  
no.11:34-39 N '64. (MIRA 17:12)

1. Vostochnyy filial Vsesoyuznogo teplotekhnicheskogo instituta,  
Chelyabinsk, i Krasnoyarskaya TETs-1.







PROTSEDILO, Z.I.; PAVLILOVA, I.G., red.

[Mechanization and electrification of poultry farms;  
bibliographical list of Soviet literature published  
from 1962. to 1964 comprising 230 items] Mekhanizatsiia  
i elektrifikatsiia ptitsevodcheskikh ferm; bibliografi-  
cheskii spisok otechestvennoi literatury za 1962-1964 gg.  
v kolichestve 230 nazvani. Moskva, 1965. 25 p.  
(MIRA 18:10)

1. Moscow. Tsentral'naya nauchnaya sel'skokhozyaystvennaya  
biblioteka. Spravochno-bibliograficheskiy otdel.

LEKAREV, L.G., prof.; PROTSEK, Ye.G., kand.med.nauk

"Medical attendance for the rural population." Reviewed by L.G.  
Lekarev and E.G.Protsek. Sov. zdrav. 21 no.5:89-90 '62. (MIRA 15:5)  
(MEDICINE, RURAL)

PROTSEK, Ye.G. (Vinnitsa)

Characteristics of the mortality rate in Vinnitsa; data of a study for 1951-1955. Sov. zdrav. 19 no.6:63-65 '60. (MIRA 13:9)

1. Iz kafedry organizatsii zdravookhraneniya (zav. - prof. L.G. Lekarev) Vinnitskogo meditsinskogo instituta (dir. - dotsent S.I. Korkhov).

(VINNITSA—MORTALITY)

PROTSEK, Ye.G., Cand Med Sci -- (diss) "Hospital mortality in the therapeutic-prophylactic institutions of the city of Vinnitsa in 1951-51<sup>1</sup> and measures ~~for reduction in order to reduce it~~ *for reducing it.*" Len, 1958. 15 pp  
(Min of Health USSR. Len Med Inst in Acad I.P.Pavlov), 200 copies  
(KL, 24-58, 124)

-107-

-17

SOKOLOVA, N.S., kand.med.nauk; PROTSEK, Ya.G.

"Methodology and system for analyzing the work of the city hospital"  
by G.L.Gomel'skaia, Reviewed by N.S.Sokolova, E.G.Protsek. Sov.  
zdrav. 19 no.12:73 '60. (MIRA 14:3)  
(HOSPITALS) (GOMEL'SKAIA, G.L.)

PROTSEK, Ye. G.

PROTSEK, Ye.G.

Achievements of public health in Vinnitsa during the Soviet regime.  
Sov.zdrav. 16 no.12:50-51 D '57. (MIRA 11:1)

1. Iz kafedry organizatsii zdravookhraneniya i istorii meditsiny  
(zav. - prof. L.G.Lekarev) Vinnitskogo meditsinskogo instituta  
(dir. - dotsent S.I.Korkhov)  
(PUBLIC HEALTH  
in Russia (Rus))



USSR/General Division. History. Classics. Personalities. A-2

Abs Jour : Ref Zhur-Biologiya, No 2, 1958, 4628

Author : Protsenko

Inst :

Title : S. M. Bogdanov-Founder of the Study of the  
Coefficient of Withering

Orig Pub : Nauk. zap. Kiiivs'k. un-t, 1955, 13, No 15, 131-  
139

Abstract : A history of studies conducted by Sergey Mik-  
haylovich Bogdanov (1859-1920), Professor at  
Kiev University on the need of water by germi-  
nating seeds. The article "On the minimum of  
water absorption by germinating seeds (method of  
investigation)" (1885) was published 25 years  
before "the discovery" of the "coefficient" of  
withering" by the American scientist Briggs and  
Shants

Card 1/1

1. PROTSENKO, A., Eng.
2. USSR (600)
4. Acids - Handling and Transportation
7. Pump-siphon for pumping sulfuric acid, Mol. prom., 13, No. 11, 1952.

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

PROTSENKO, A., inzhener.

Device for condensing steam escaping from the separator. Moloch.  
prom. 17 no.6:27-28 '56. (MLRA 9:10)

1. Ukrainskaya nauchno-issledovatel'skaya laboratoriya molochnoy  
promyshlennosti. (Condensers (Steam))

PROTSENKO, A.

"Kupral," a remedy against mold. Moloch. prom. 17 no.6:37 '56.  
(MLRA 9:10)

(Fungicides)

~~PROTSSENKO, A.; VESELOVSKAYA, N.~~  
PROTSSENKO, A.; VESELOVSKAYA, N.

Use of separator-purifiers in the production of butter by the  
continuous method. Moloch.prom. 18 no.3:22-24 '57. (MLRA 10:4)

1. Ukrainskaya nauchno-issledovatel'skaya laboratoriya molochnoy  
promyshlennosti. (Cream separators) (Butter)

PROTSIMKO, A.

Fertilizers and Manures

Spring care of winter crops, Kolkh. prosv. 13, no. 2, 1953.

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

PROISENKO, A.I.

Distribution of scarab beetles (Coleoptera, Scarabaeidae) in  
vertical vegetation zones of the northern slopes of the Talas  
Ala-Tau. Sbor.ent.rab. no.1:80-99 '62. (MIRA 16:2)  
(Talas Ala-Tau—Scarabaeidae)

PROTSENKO, A.I.

New representative of the genus *Amphimallon* Berth (Coleoptera,  
Scarabaeidae) from Kirghizistan. Sbor.ent.rab. no.1:100-104 '62.  
(MIRA 16:2)

(Kirghizistan--Scarabaeidae)



PROTSENKO, A. I.

Vertical zonality in the distribution of scarab beetles  
(Coleoptera, Scarabaeidae) in the Chongkemin basin. Izv. AN  
Kir. SSR. Ser. biol. nauk 4 no.1:125-142 '62. (MIRA 15:10)

(Chongkemin Valley—Scarabaeidae)

PROTSENKO, A.I.

Materials on the biology of ground beetles (Carabidae, Calosoma,  
Taphoxenus). Trudy Inst.sool.i paras.AN Kir.SSR no.4:37-41 '55.  
(MLRA 10:5)

(Alakul'skiy District--Ground beetles)  
(Insects, Injurious and beneficial--Biological control)

USSR / General and Specialized Zoology - Insects.

P

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 20912

Author : ~~Protsenko, A. I.~~  
Inst : Institute of Zoology and Parasitology of AS KirgSSR

Title : The Biology of the June Beetle (*Amphimallon solstitialis mesasiaticus* Medv.) and the Semirechenskiy Beetle (*Polyphylla irrorata* Gebl.) in the Chuya Valley

Orig Pub : Tr. In-ta zool. i parazitol. AN KirgSSR, 1957, vyp 6, 161-172

Abstract : The phenology and stages of development of the Central Asiatic sub-species of the June and Semirechenskiy beetles are described on the basis of 1954-56 studies. The depth at which the larvae of the beetles are found was:

Card 1/3

50

USSR / General and Specialized Zoology - Insects.

P

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 20912

in the spring and early fall 0-20, in the summer 30-40, in the winter 80-100 cm. The larvae injure the beet and transplants in all phases of development, as a result of which the leaves of the rosette all fade on young plants which had no time to become strong (without previous yellowing), the crop is decreased, as is the resistance of the roots against rot after storing. The larvae concentrate on the shoulders of the irrigation network, on virgin soil and deposits, and the larvae of the June beetles also in fields previously sown with alfalfa. The female of the June beetle lays an average of 40-50 eggs (up to 68), and an average each of 10-12 (2-38) in one laying, and the

Card 2/3

USSR / General and Specialized Zoology - Insects. P

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 20912

Semirechenskiy beetle, respectively, 15-20 (up to 32), each 5-10 eggs per laying. The optimum moisture of the ground for egg laying of the June beetle is 20-25% and, for the Semirechenskiy beetle, 5-15% of the absolute weight. -- A. P. Adrianov

Card 3/3

51

PROTSENKO, A.I.

Blister beetles parasitizing in the ovipositors of the Asiatic locust.  
Veterinariia 34 no.5:153-157 My '57. (MIRA 10:6)  
(Kazakhstan--Blister beetles) (Parasites--Locusts)

PROTSENKO, A.I.

~~PROTSENKO, A.I.~~

Importance of ovipositor parasites in the dynamics of numbers of the  
Asiatic locust. Veterinaria 34 no.5:159-164 My '57. (MLRA 10:6)  
(Kazakhstan--Insects, Injurious and beneficial)  
(Parasites--Locusts)

PROTSENKO, A.I.  
PROTSENKO, A.I.

Materials on the fertility of the red-headed blister beetle *Epicauta erythrocephala* Pall. *Veterinaria* 34 no.5:147-151 My '57. (MIRA 10:6)  
(Kazakhstan--Blister beetles)  
(Parasites--Locusts)



PROTSENKO, A.I.

Lamellicorn pests of sugar beets and their economic importance in  
the Chuya Valley. Trudy Inst.zool.i paraz.AN Kir.SSR no.7:  
245-262 '59. (MIRA 13:4)

(Sugar beets--Diseases and pests)  
(Chuya Valley--Beetles)

PROTSENKO, A.I.

A new species of the genus *Pectinichelus* Ball. (Coleoptera,  
Scarabaeidae) from Kirghizistan. Izv. AN Kir. SSR Ser. biol.  
nauk 1 no.4:173-175 '59. (MIRA 13:7)  
(Kirghizistan—Scarabaeidae)

PROTSENKO, A.I.

Materials on the fauna of lamellicorn beetles (Coleoptera,  
Scarabaeidae) in Kirghizistan. Izv. An Kir. SSR. Ser. biol. nauk  
3 no.1:159-184 '61. (MIRA 14:12)  
(KIRGHIZISTAN--SCARABAEIDAE)

VORONIN, M.I., dotsent; GRYAZNOV, V.I., dotsent; KETLER, V.O., dotsent.  
PRASOV, L.Z., dotsent; VOZNESENSKIY, G.D., dotsent, kand.tekhn.nauk.  
ZHABOTINSKAYA, L.A., dotsent, kand.tekhn.nauk; ISAKOV, I.M., dotsent,  
kand.tekhn.nauk; LAZEBNIKOV, Yu.S., dotsent, kand.tekhn.nauk;  
PROTSENKO, A.I., assistant

Manual on the design of railroads. Transp. stroit. 14 no.6:57-59  
Ja '64.

Through the pages of foreign magazines. Ibid.:55-56

(MIRA 18:2)

1. Leningradskiy ordena Lenina institut inzhenerov zheleznodorozhnogo transporta imeni akademika V.N.Obraztsova (for Voronin, Gryaznov, Ketler, Prasov). 2. Novosibirskiy institut inzhenerov zheleznodorozhnogo transporta (for Voznesenskiy, Zhabotinskaya, Isakov, Lazebnikov, Protsenko).

PROTSENKO, A.I., otv. red.; PALIY, V.F., red.; TARVIT-GONTAR', I.A., red.; IBRAIMOVA, K., red.; TARBINSKIY, S.P., red.; PEK, L.V., red.; MARKOV, F.I., red.

[Entomological studies in Kirghizia] Entomologicheskie issledovaniia v Kirgizii. Frunze, "Ilim", 1965. 120 p.  
(MIRA 18:12)

1. Akademiya nauk Kirgizskoy SSR, Frunze.

PROTSENKO, A.I.

A new species of the genus *Onthophagus* Latr. (Coleoptera,  
Scarabaeidae) from Kirghizia. Sbor. ent. rab. no. 2816-19  
162 (MIRA 1787)

PROTSENKO, A.I., inzh.

Graphical method for calculating electric power consumption.  
Trudy NIIZHT 26:67--74 '62. (MIRA 16:8)

(Electric railroads.—Current supply)

PROTSENKO, A.L.

Fruit creamery butter. Khar.prom. no.3:71-72 J1-S '62.  
(MIRA 15:8)  
(Ukraine—Butter)



PROTSENKO, A.L.; VESELOVSKAYA, N.S.; DOLZHANOV, P.B., spetsred.; VASIL'YEVA,  
G.N., red.; KISINA, Ye.I., tekhn.red.

[Zvenigorod butter and cheese factory] Zvenigorodskii maslodel'no-  
syrodel'nyi zavod. Moskva, Pishchepromizdat, 1957. 25 p.

(MIRA 12:3)

(Zvenigorod--Dairy plants--Equipment and supplies)

PROISENKO, A.L. [Protsenko, O.L.]

Effect of the methods of production on the characteristics and  
keeping quality of creamery butter. Khar. prom. no.2:28-31 Ap-Je '65.  
(MIRA 18:5)

PROTSENKO, A.L. [Protsenko, O.L.]

Ways to reduce fat content of buttermilk in the production of  
creamery butter. Khar. prom. no.1:39-41 Ja-Mr '65. (MIRA 18:4)

PROTSENKO, A.M. (Moskva)

Stability of compressed and bent bars in linear creep. Stroi.mekh.  
i rasch.soor. 7 no.5:32-34 '65.

(MIRA 18:10)

KOLOKOLOV, N.M., inzh.; KARELI, L.G., inzh.; PROTSENKO, A.M., inzh.

Making span structures of large bridges on stands. Transp. stroi.  
10 no. 12:22-26 D '60. (MIRA 13:12)  
(Nikolayev--Bridges, Concrete)

L 45461-66 ENT(m)/EWP(t)/ETI JR SOURCE CODE: UR/0089/65/019/004/0383/0384  
ACC NR: AP5026447

29  
B

AUTHOR: Mukhina, G. V.; Protsenko, A. N.; Trukhachev, N. M.

ORG: None.

TITLE: Calculation of fuel burnup<sup>1/2</sup> in a cylindrical reactor with a movable compensating system

SOURCE: Atomnaya energiya, v. 19, no. 4, 1965, 383-384

TOPIC TAGS: nuclear reactor, reactor fuel element, nuclear powered ship

ABSTRACT: An abbreviated version of the authors' original paper is given. The authors describe their mathematical approach to determining the neutron flux distributions and critical parameters affected by the fuel burnup process and the shim-bank movement. A system of basic reactor equations and approximations was derived in the original paper. The parameters were expressed in polynomials with arguments proportional to the integral heat release. The calculations were made for different positions of shim-banks on the basis of their overlapping coincidences with various neutron distribution areas. The results of calculations for the nuclear reactor of the icebreaker "Lenin" are shown (continuous

UDC: 621.039.51

L 4.  
card 1/2

ACC

AP5026447

(curve) in Fig. 1 and compared with the data (plotted dots) obtained experimentally. Orig. art. has: 2 figures.

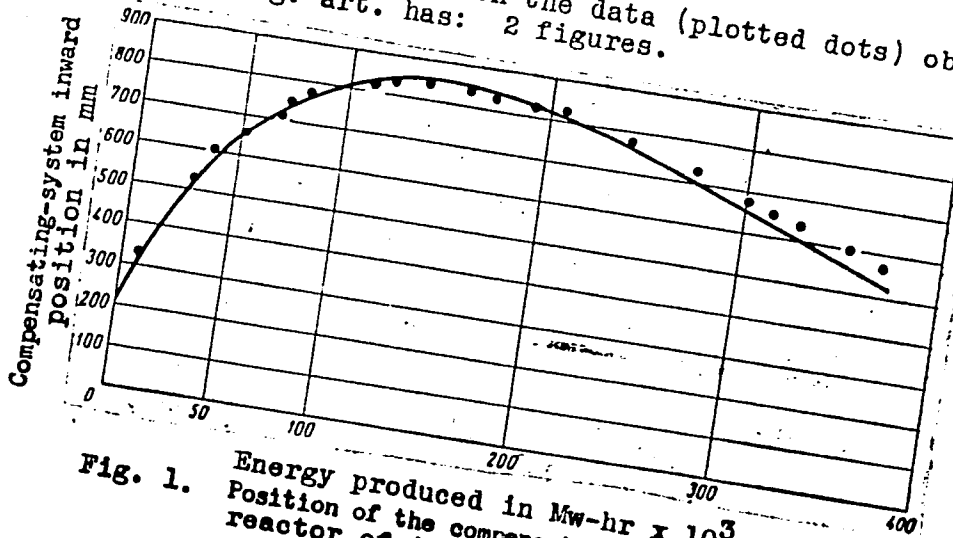


Fig. 1. Energy produced in Mw-hr x 10<sup>3</sup>  
Position of the compensating system in the nuclear reactor of icebreaker "Lenin"

SUB CODE: NP / SUBM DATE: 26May65 / ORIG REF: 004 / OTH REF: 000  
Card 2/2 fv

SATYUK, V.P., kand.biol.nauk; KOZIN, V.M.; VOJKOV, B.V.; PROISENO, A.S.

Use of furylacrylic acid salts as physiologically active substances.  
Khim.prom. [Ukr.] no.2:34 Ap-Je '65. (MIRA 18:6)



PROISENKO, P.I.; PROISENKO, A.V.

Determination of the thermal stability of fused salts. Izv.  
vys. ucheb. zav.; khim. i khim. tekhn. 8 no.1:160-161 '65.  
(MIRA 18:6)

1. Rostovskiy-na-Donu gosudarstvennyy universitat, laboratoriya  
fiziko-khimicheskogo analiza.

PROTSENKO, P.I.; PROTSENKO, A.V.; RAZUMOVSKAYA, O.N.

Internal friction of fused alkali metal nitrites. Zhur.neorg.khim.  
10 no.4:751-754 Ap '65. (MIRA 18:6)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

ZENIN, A.A.; PROTSENKO, A.V.

Regimen of principal ions in the water of the Volga River near  
Volgograd (1957-58). Gidrokhim.mat. 34:32-47 '61. (MIRA 15:2)

1. Gidrokhimicheskiy institut AN SSSR, Novochoerkassk.  
(Volga River--Water--Composition)

ZENIN, A.A.; PROTSENKO, A.V.

Regimen of biogenous and organic substances and the gas composition  
of the water of the Volga River near Volgograd (1957-58).  
Gidrokhim.mat. 34:48-59 '61. (MIRA 15:2)

1. Gidrokhimicheskiy institut AN SSSR, Novocherkassk.  
(Volga River--Water--Composition)

PROTSENKO, P.I.; PROTSENKO, A.V.; TRET'YAKOV, Yu.D.; VENEROVSKAYA, L.N.

Electric conductance of binary molten nitrite-nitrate systems.  
Dokl. AN SSSR 154 no.5:1171-1174 F'64. (MIRA 17:2)

1. Rostovskiy-na-Donu gosudarstvennyy universitet. Predstavleno  
akademikom A.N. Frumkinym.

ZENIN, A.A.; PROTSENKO, A.V.

Discharge of dissolved substances by the Volga River into the  
Caspian Sea. Hidrokhim.mat. 34:60-66 '61. (MIRA 15:2)

1. Hidrokhimicheskiy institut AN SSSR, Novocherkassk.  
(Volga River--Water--Composition)

MEYSENKO, P.I.; CHISHOLINA, R.L.; FRUMENKO, A.V.

System Li, Rb,  $\parallel$   $\text{NO}_2$ ,  $\text{NO}_3$ . Zmur. neorg. khim. 9 no.6:2451-454  
Je '63 (MIRA 17:8)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

PROTSENKO, P.I.; POPOVSKAYA, N.P.; Primalni uchastiye: Dneprovskaya, G.G.;  
PROTSENKO, A.V.

Electric conductivity of the melts of some nitrates and their mixtures.  
Zhur. fiz. khim. 35 no. 4:867-870 Ap '61. (MIRA 14:5)

1. Rostovskiy gosudarstvennyy universitet, Rostov-na-Donu.  
(Nitrates--Electric properties)



L 24193-65 EPA(s)-2/EWT(m)/EPT(n)-2/ENP(t)/ENP(b) Pt-10/Pu-4 IJP(c) JD/JG

ACCESSION NR: AP4047996

S/0073/64/030/010/1051/1054

AUTHOR: Protsenko, P. I.; Protsenko, A. V.

TITLE: Dissociation potentials of molten alkali metal nitrites

6

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 10, 1984, 1051-1054

TOPIC TAGS: alkali metal nitrite, <sup>27</sup>lithium nitrite, <sup>27</sup>sodium nitrite, <sup>27</sup>rubidium nitrite, <sup>27</sup>cesium nitrite, dissociation potential, <sup>27</sup>potassium nitrite

ABSTRACT: The dissociation potential  $E$  of the molten alkali metal nitrites were determined over a wide temperature range using a platinum anode for the Li, Na, Rb and Cs nitrites, a silver anode for  $KNO_2$  and a carbon anode for Li and Na nitrites.  $E$  was lower on the carbon than on the platinum anode, probably due to polarization. The dissociation potential increased from Na to Cs nitrite, but less than for the corresponding nitrates.  $E$  decreased with increasing temperature according to the equation  $E_t = E_{t_0} + \frac{\Delta E}{\Delta t}(t - t_0)$  where  $\frac{\Delta E}{\Delta t}$  is the mean temperature coefficient. The following mechanism was proposed for the electrolysis

Card 1/2

L 24193-65

ACCESSION NR: AP4047996

of the nitrites and secondary processes on the electrodes: on the cathode,  $\text{Me}^+ + e \rightarrow \text{Me}$ , and the secondary reactions,  $6\text{Me} + 2\text{MeNO}_2 \rightarrow 4\text{Me}_2\text{O} + \text{N}_2$  and  $6\text{Me} + \text{N}_2 \rightarrow 2\text{Me}_3\text{N}$ ; and on the carbon anode,  $2\text{NO}_2 - e \rightarrow \text{NO}_3 + \text{NO}$ , and the secondary reactions,  $\text{C} + 2\text{NO} \rightarrow \text{CO}_2 + \text{N}_2$  and  $\text{C} + \text{CO}_2 \rightarrow 2\text{CO}$ . Analyses of the catholytes and anolytes confirmed these reactions, although other oxygen compounds of carbon might also have been formed. Orig. art. has: 2 figures and 4 equations.

ASSOCIATION: Rostovskiy-na-Dony gosudarstvennyy universitet (Rostovsk-on-Don State University)

SUBMITTED: 08Jul63

ENCL: 00

SUB CODE: MM, GC

NR REF SOV: 008

OTHER: 001

Card 2/2

L 48588-65 EPA(s)-2/EWT(m)/EPF(o)/EPF(n)-2/EPR/T/EWP(t)/EWP(b) Pr-4/Pc-4/  
Pt-7/Pc-4 IJP(o) JD/WJ/JG

ACCESSION NR: AP5009945

UR/0078/65/010/004/0751/0754

AUTHOR: Protsenko, P. I.; Protsenko, A. V.; Razumovskaya, O. N.

TITLE: Internal friction in melts of alkali metal nitrites

54  
53  
B

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 4, 1965, 751-754

TOPIC TAGS: fused salt, alkali metal nitrite, melt viscosity, complex ion, internal friction

ABSTRACT: Internal friction in melts of lithium-, sodium-, calcium-, potassium-, rubidium-, and cesium nitrites was studied within the limits of thermal stability. No general quantitative theory of viscosity of fused salts is developed as yet. Knowledge of viscosity of fused salts is of practical importance in nuclear energetics, thermal working of metals, heat transfer, heat resistant lubrication, etc. The viscosity ( $\eta$ ) of melts of alkali metal nitrites was found to be a linear inverse function of temperature. At temperatures approximately five percent above the respective melting points lithium nitrite exhibits the highest viscosity among the melts of alkali metal nitrites. Applicability of the equation  $\eta = A \cdot e^{B/T}$  to

Card 1/2

I 48583-55

ACCESSION NR: AP5009945

melts of alkali metal nitrites is shown and the activation energies of viscous flow ( $\Delta E_{\eta}$ ) are determined. Within the studied temperature range the values of  $\Delta E_{\eta}$  are proportional to the values of activation energy of electrical conductivity ( $\Delta E_{\sigma}$ ). High values of  $\Delta E_{\eta}$  and low ratios of  $\Delta E_{\eta}$  to  $\Delta E_{\sigma}$  indicate formation of relatively stable complex ions in melts of alkali metal nitrites. Orig. art. has: 3 figures, 2 tables.

ASSOCIATION: Rostovskiy-na-Donu gosudarstvenny'y universitet (Rostov State University)

SUBMITTED: 120ct63

ENCL: 00

SUB CODE: GC

NO REF SOV: 006

OTHER: 008

Card 2/2

L 25371-65 EWT(m)/EPF(c)/EPF(n)-2/EPR/ENP(t)/ENP(b) Pr-Li/Ps-Li/Pu-Li LJP(c) JD/JG

ACCESSION NR: AP5006250

S/0149/64/000/005/0034/0038

37  
85  
B

AUTHOR: Protsenko, A. V.; Protsenko, P. I.

TITLE: Some physical and chemical properties of melted samples of the system  $LiNO_2 - LiNO_3$

SOURCE: IVUZ. Tsvetnaya metallurgiya, no. 5, 1964, 34-38

TOPIC TAGS: <sup>27</sup>lithium compound, <sup>27</sup>nitrate, physical chemistry property, chemical compound, electric conductivity

Abstract: Physical and chemical methods are used to study the density, viscosity, and electrical conductivity of molten lithium nitrate and nitrite (thermometry, specific gravities, densities, electrical conductivities, and viscosities). Equipment and methods used have been described in earlier papers. The overall diagram of state of the  $LiNO_2 - LiNO_3$  system was obtained and it was found that its components did not react chemically; rather they formed a continuous series of solid solutions with a minimum at  $186^\circ$ , decomposing at  $145^\circ$ . The dimorphic transformation of lithium nitrate was fixed at  $93^\circ$ . The measured density and calculated molar volumes of the melts indicate that the isotherms for these parameters are additive and parallel.

Card 1/3

L 25371-65

ACCESSION NR: AP5006250

The specific electrical conductivity and viscosity of the system were measured. Conductivity is anomalously low because the lithium ions set up strong force fields favoring stable associations, effectively lowering ion

migration, and hence lowering conductivity. The conductivity isotherms are parallel to the abscissa because the conductivity of the two components is practically identical at the temperatures studied. Viscosity increases in proportion to nitrite content. The activation energy of ion migration and viscous flow were calculated. From the isotherms and from the variation of the activation energies it is concluded that the melts and mixtures of molten lithium nitrite and nitrate consist of simple ions and associated ions having varying degrees of stability and varying composition, depending on the specific ion charges and their quantitative relations. Orig. art. has

1 graph and 1 table.

Card 2/3

ACCESSION NR: AP5006250

ASSOCIATION: Kafedra obshchey i neorganicheskoy khimii, Rostovskiy gosudarstvennyy universitet (Department of General and Inorganic Chemistry, Rostov State University)

SUBMITTED: 11Oct63

ENCL: 00

SUB CODE: 10, 00

NO REF SOV: 007

OTHER: 006

JFRS

Card 3/3

PROTSENKO, P.I.; PROTSENKO, A.V.

Density and molal volumes of alkali nitrite melts. Zhur.fiz.khim.  
38 no.11:2688-2689 N '64. (MIRA 18:2)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.



МУТЯНКО, П.П.; ПРОСМЯКО, А.В.; ПОГОНЯКА, Н.И.

Electroconductivity of fused alkali metal nitrites. *Zhur. neorg. khim.* 9 no.8:1951-1954. As 104. (NINA 17:11)

1. Bostovskiy-na-Donu gosudarstvennyy universitet.

PROTSENKO, A.Ye.; PROTSENKO, Ye.P.

Cause of the disease of apical palm leaves in greenhouses. Izv.  
AN SSSR.Ser.biol. no.6:909-914 N-D '62. (MIRA 16:1)

1. Institute of Microbiology and Main Botanical Garden,  
Academy of Sciences of U.S.S.R., Moscow.  
(PALMS—DISEASES AND PESTS)

PROTSENKO, A.Ye., kand.biolog.nauk

Virus diseases of potatoes. Zashch. rast. ot vred. i bol.  
6 no.8:37-38 Ag '61. (MIRA 15:12)

1. Institut mikrobiologii AN SSSR, g. Moskva.  
(Potatoes—Diseases and pests)  
(Virus diseases of plants)

PROTENSIO, A. E.

Diseases of Grapes in Maritime regions, Spravochnik po Vozrozhdeniuv i razvedeniuv  
Rastenii, no. 3, 1941, pp. 15-16. 44.47 Sp7

SO - SIRA SI 90-53, 15 December 1953

PROTENSKO, A. S.

Red Rot -- Diseases of Ussurian Plum, Saizhgorod, no. 9, 1947, pp. 35-37.  
EO Sa13

SO - SIRA 81 98-53, 15 December 1953

CA

12

Dependence of the yield of cottage cheese on milk fat content. A. Pshchenko and N. Verkhovskaya. *Molokozna* (Dairy), No. 12, 31 (1950). --As a result of an extensive plant-operation study it was shown that the conversion of milk solids into cottage cheese rises with fat content. Increase of fat content from 3.2% to 4.4% gave an economy of 1.24 kg. in the milk consumed per unit of cottage cheese produced. G. M. Kozlovskii

1951

PROTSENKO, A. Ye.

Cand. Biological Sci.

"Infectious Dying of Aurantiaceae (Mal'sekto) and Measures for Preventing It." Sub 26 Dec 51, Inst of Microbiology, Acad Sci USSR.

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

SO: Sum. No. 480, 9 May 55

PROTSENKO, A.Ye.

Electron microscope study of phytopathogenic viruses. *Mikrobiologiya*  
32 no.6:709-713 N-D '53. (MLRA 6:12)

1. Institut mikrobiologii Akademii nauk SSSR, Moscow.  
(Electron microscope) (Virus diseases of plants)



*PROTSENKO, A. Ye.*

PROTSENKO, A. Ye.

Curling of lilac leaves. *Biul. Glav. bot. sada no. 17:95-102 '54.*

(MIRA 8:3)

1. Institut microbiologii Akademii nauk SSSR.  
(Lilac--Diseases and pests)

PROTSENKO, A.Ye.; PROTSENKO, Ye.P.

Causative agent of mosaic of gladiolus. *Biul.Glav.bot.sada*  
no.19:115-117 '54. (MLBA 8:2)

1. Institut mikrobiologii Akademii nauk SSSR. Glavnyy botanicheskiy sad Akademii nauk SSSR.  
(Gladiolus--Diseases and pests)(Mosaic disease)

PROTSENKO, A.Ye.; NESTEROVA, A.M.

Cucumber white mosaic. Trudy Inst.mikrobiol. no.4:213-219  
'55. (MLRA 9:1)

(VIRUSES,

cucumber white mosaic virus)

(VEGETABLES,

cucumber white mosaic virus)

PROTSENKO, A.Ye., kandidat biologicheskikh nauk

Viruses induce many plant diseases. Nauka i zhizn' 22 no.7:11-13  
Jl '55. (MIRA 8:9)

(Virus diseases of plants)

PROTSENKO  
PROTSENKO, A. E.

1944. Virus of orchids under the electron microscope. A. E. Protsenko *Bull. Gl. bot. sad.*, 1955, No. 23, 94-100; *Referat. Zh. Biol.*, 1956, Abstr. No. 70979. — A study of mosaic or orchids (*Cymbidium*, *Cattleya*, and *Odontoglossum* genera). Extracts of the leaf tissue of mosaic orchids of the genus *Cymbidium* were found to contain thread-like coiled particles of dimensions  $560 \times 18$  m $\mu$ . from *Cattleya* similar forms of dimensions  $330 \times 21$  m $\mu$  and straight forms  $300 \times 24$  m $\mu$ , and from *Odontoglossum* straight particles  $280 \times 24$  m $\mu$ . Virus particles from the leaves of *Cymbidium*, *Stanhopea*, *Vanda*, *Cattleya*, and *Cochlosyne* orchids are also described the plants being affected by necrotic spots, and also from the variegatedly petalled flower orchids of the genus *Cattleya*. (Russian)  
B. C. Vickrey

Med

PROTSENKO, A.Ye.

Electronoscopic observation of particles in the sap of plants  
affected by virus diseases. Biofizika 1 no.4:376-378 '56.(MIRA 9:9)

1. Institut mikrobiologii AN SSSR, Moskva.  
(ELECTRON MICROSCOPY) (VIRUS DISEASES)  
(PLANT DISEASES)

PROTSENKO, A.Ye.

Virus and viruslike diseases of plants in the Main Botanical  
Garden. Biul.Glav.bot.sada no.27:98-107 '57. (MLRA 10:5)

1.Institut mikrobiologii Akademii nauk SSSR.  
(Moscow--Virus diseases of plants)

PROSENKO, A.Ye.

Correlation between the viruses of tomato big-bud (*Leptomotropas solani* Ryzkov) and aster yellow (*Leptomotropas callistephi* Ryzkov). [with summary in English]. Vop.virus. 3 no.5:292-296 S-0 '58

(MIRA 11:10)

1. Institut mikrobiologii AN SSSR, Moskva.

(VIRUSES,

*Leptomotropas solani* & *Leptomotrapas callistephi*,  
correlation (Rus))



PROSENKO, A.Ye.

Electron microscopic study of phytopathogenic viruses. Report No.2.  
[with summary in English]. Izv.AN SSSR. Ser.biol.no.4:451-455 J1-Lg '58  
(MIRA 11:8)

1. Institut mikrobiologii Akademii nauk SSSR.  
(ELECTRON MICROSCOPY)  
(POTATOES--DISEASES AND PESTS)  
(VIRUS DISEASES OF PLANTS)

PROTSENKO, A.Ye.

Electron microscopy of phytopathogenic viruses. Report No.1: Aster  
yellows virus [with summary in English]. Mikrobiologiya 27  
no.1:131-132 Ja-F '58. (MIRA 11:4)

1. Institut mikrobiologii AN SSSR, Moskva.

(VIRUSES

aster yellows virus, electron microscopy (Rus)

(MICROSCOPY, ELECTRON

of aster yellows virus (Rus)

17(4)

AUTHORS:

Zavarzina, N. B., Protsenko, A. Ye.

SOV/20-122-5-52/56

TITLE:

On the Lysis of Chlorella Pyrenoidosa Pringh Cultures  
(O lizise kul'tur Chlorella pyrenoidosa Pringh)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 5, pp 936-939  
(USSR)

ABSTRACT:

In mass cultures of protococcus algae (Ref 1) sometimes the lysis of actively growing cultures occurred which was completed within a few hours. N. S. Gayevskaya (Ref 1) is of the opinion that lysis can occur due to an incomplete digestion of the algae in the bowel of animal organisms. The authors are, however, of the opinion that this lysis can occur 1) By the unorganized effect of some ferments of the algae in the mass injury of cells (as Ref 1), 2) By the antagonistic effect of products of the life activity of bacteria formed in the culture of algae, and 3) By a specific agent that lysates an active alga culture. The lysis of Chlorella pyrenoidosa also observed by the authors was seen on a strain from the Muzey kul'tur vodorosley (Museum for Algae Cultures) of Praha University. They were cultivated on a mineral medium. The task of the work was to explain the cause of this lysis. The

Card 1/3

On the Lysis of *Chlorella Pyrenoidosa* Pringh  
Cultures

SOV/20-122-5-52/56

authors found a specific lysating factor. Figure 1 shows a great amount of spherical particles, 30-47  $\mu$  large, which are similar to some viri of higher plants and to the bacteriophages. They could not be found in healthy cultures. A lysate diluted at the ratio 1 : 10 causes negative colonies (taches vierges) in chlorella cultures on agar media (Fig 2). Re-inoculations from such agar places caused a lysis of the cells. The lysating factor can regenerate. The final activity of the lysate depended on the degree of dilution of the inoculated material. Temperatures above 60° inactivate the lysate. The lysating factor has a clear adsorption capability with activated charcoal. It can, however, not pass the "Chamberlain" candle (svecha Shamberlana). Rivanol acridine and some dyes bind various viri and decrease their activity. The lysating factor of the chlorella cultures had a similar behaviour. It is specific for chlorella and cannot lysate other types of algae. The following problems remain unsolved: 1) Is the lysating agent transmitted by bacteria? 2) Are bacteria present in the culture without taking part in the lysis of the chlorella? 3) Does lysis take place in two stages,

Card 2/3

On the Lysis of Chlorella Pyrenoidosa Pringh  
Cultures

SOV/20-122-5-52/56

i. e. first some specific bacteria (not found by the authors)  
are lysated, and the chlorella only subsequently? There are  
2 figures and 2 Soviet references.

ASSOCIATION: Institut mikrobiologii Akademii nauk SSSR (Institute of  
Microbiology of the Academy of Sciences, USSR)

PRESENTED: June 4, 1958, by V. N. Shaposhnikov, Academician

SUBMITTED: May 28, 1958

Card 3/3

PROTSENKO, A.Ye.

Electronoscopy of phytopathogenic viruses. Report No.3:481-483 J1-Ag  
'59. (MIRA 12:12)

1. Institut mikrobiologii AN SSSR, Moskva.  
(MICROSCOPY, ELECTRON)  
(PLANTS)

PROTSSENKO, A.Ye.; SMIRNOVA, V.A.

Effect of potassium deficiency in plants on the accumulation  
of tobacco mosaic viruses in tobacco leaves. Izv. AN SSSR. Ser.  
biol. no.4:590-594 J1-Ag '59. (MIRA 12:9)

1. Institute of Microbiology, Academy of Sciences of the  
U.S.S.R., Moscow.

(PLANTS, EFFECT OF POTASSIUM ON)  
(MOSAIC DISEASE)  
(TOBACCO--DISEASES AND PESTS)

5,5140,5.5130

77765  
SCV/75-15-1-27/29

AUTHORS: Pavlinova, A. V., Korotun, M. V., Protsenko, A. Ye.

TITLE: Some Improvements in the Microcrystalloscopic Detection of Potassium as Triple Potassium-Copper-Lead Nitrite

PERIODICAL: Zhurnal analiticheskoy khimii, 1960, Vol 15, Nr 1, p 124 (USSR)

ABSTRACT: The use of a reagent containing 25 g lead acetate, 6.0 g cupric acetate, and 40 g sodium nitrite per 150 ml of water increases the sensitivity of this reaction for potassium. A drop of the test solution is evaporated to dryness on a glass plate, and a drop of the reagent solution is added. The appearance of the characteristic crystals can still be observed at a 0.0025 M concentration of KCl. Detectable minimum, 0.9  $\gamma$  ; limiting dilution, 1:10,300. There is 1 Soviet reference.

SUBMITTED: October 24, 1958

Card 1/1



ACC NR: AP6024649

SOURCE CODE: UR/0216/66/000/004/0554/0567

AUTHOR: Protsenko, A. Ye.

ORG: Microbiology Institute, AN SSSR (Institut mikrobiologii AN SSSR)

TITLE: Classification of phytopathogenic viruses

SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 4, 1966,  
554-567

TOPIC TAGS: virus, biological classification, phytopathogenic virus,  
taxonomic group, parasite, *virus*

ABSTRACT:

In accordance with international practices, the following criteria have been established for the classification of phytopathogenic viruses: 1) Morphology—Similar forms have been found to be genetically closer; 2) inactivation temperature; 3) finite dilution of infectious fluid; 4) Transmissibility—a. by insects biologically, b. by insects mechanically, and, c. mechanically without insects; 5) symptoms of infected host; 6) antigenic properties; and, 7) range of susceptible hosts. It is believed that the various viruses have a phylogenetic origin, having evolved from

Card 1/2

UDC: 576.858.8

ACC NR: AP6024649

free-living forms and taking on a parasitic mode of life.  
A classification of the class "ribonucleoproteinales" with  
examples is given. [WA-50; CBE No. 11]

SUB CODE: 06/ SUBM DATE: 19Apr65/ ORIG REF: 012/ OTH REF: 006/  
AD-RESS: [WA-50; CBE No. 11]

Card 2/2

PROTSENKO, A.Ye.; LEGUNKOVA, R.M.

Electron microscopy of wheat streak mosaic virus. Vop. virus. 10  
no.1:23-26 Ja-F '65. (MIRA 18:5)

1. Institut mikrobiologii AN SSSR, Moskva.

PROTSENKO, A.Ye., kand. biolog. nauk

Founder of virology. Zashch. rast. ot vred. 1 bol. 9 no.12:2-3  
'64. (MIRA 18:4)