[illegible], [illegible], B.V.

Electrodeposition of cadmium from sulfate solutions with added surface-active agents. Elektrokhimiia 1 no.5:620-625 My '65. (MIRA 18:6)

1. Vsesoyuznyy zaochnyy politekhnicheskiy institut.

[illegible]

Conditions for the production of porous and pore-free [illegible] coatings from acid baths. Zhur. prikl. khim. 38 no.4:827-833 Ap '65. (MIRA 18:6)

BALASHOVA, N.N., CHERNYSHOVA, A.N.

Effect of surface-active substances on the electrodeposition of nickel. Elektrokhimiia 1 no.11:1363-1366 N '65.
(MIRA 18:11)

1. Vsesoyuznyy zaochnyy politekhnicheskiy institut.

BALASHOVA, M.M.

Relation between the CN ion and the surface-active additions.
Elektrokhimiia 1 no.7:872-873 Jl '65. (MIRA 18:10)

1. Vsesoyuznyy zaochnyy politekhnicheskiy institut.

BALASHOVA, N.N.; YEFIMOV, I.A. (Moskva)

Introduction of surface-active agents into solutions of simple electrolytes in order to improve the cathodic deposition of metals. Zhur. fiz. khim. 39 no. 1:135-140 Ja '65
(MIRA 19:1)

1. Vsesoyuznyy zaochnyy politekhnicheskiy institut. Submitted June 1, 1964.

L 38172-66 EWT(m)/EWP(t)/ETI IJP(c) JD/HW/WB

ACC NR: AP6021078 (N) SOURCE CODE: UR/0365/66/002/002/0213/0215

AUTHOR: Smagunova, N. A.; Balashova, N. N.

ORG: Scientific-Research Institite of the Watchmaking Industry (Nauchno-issledovatel'skiy institut chasovoy promyshlennosti)

TITLE: Effect of surface active substances on the porosity and adhesion of nickel coatings

SOURCE: Zashchita metallov, v. 2, no. 2, 1966, 213-215

TOPIC TAGS: nickel plating, electroplating, surface active agent, adhesion, metal porosity, ~~surface property~~, heat treatment, SURFACE TENSION

ABSTRACT: The effect of changing the concentration of surface active substances in rinse solutions during nickel plating was studied. Nickel plating was carried out in an electrolyte containing (g/l): $NiSO_4 7H_2O$--300, H_3BO_3--30, NaF--6, NaCl--15, sodium salt--2.6 to 2.7 and disulfonaphtalenic acid--4. The plating conditions were 0.75 a/dm^2 at pH=5.5-5.9. Prior to nickel plating, samples were rinsed in OP-7 (a surface active product of the reaction of 7 mol of ethylene oxide and a mixture of mono- and dialkylphenols) solutions ranging in composition from 0.1 to 2.5 g/l. The surface tension and the number of bends to flaking of the coating dropped sharply with concentration, leveling off at 1.0 g/l. The number of pores per cm^2 dropped sharply from

UDC: 621.357.7

Card 1/2

L 38172-66
ACC NR: AP6021078

600 to 200 at 1.0 g/l and increased again to 500 at 2.0 g/l. The region of change in surface tension with concentration corresponded to surface active additions in the solution itself, while the leveling off corresponded to behavior in colloidal solutions. The decrease in porosity and the lowering of nickel adhesion was caused by the formation of adsorption layers of a surface active substance on the plating surface. The increase in porosity with further increases in concentration was due to the formation of micelles in the solution, the adsorption of which resulted in thick irregularities in the layer. The influence of temperature and heating time on coating adhesion was significant. The nickel plated samples were heated at 100, 200 and 300°C for periods from 1 to 5 hrs. Little change in porosity was noted although the adhesion improved fourfold by heating 1-1.5 hrs at 300°C or 3 hrs at 250°C. The porosity decreased sharply with an increase in coating thickness from 1 to 5μ. By heat treating, the porosity was improved somewhat as a result of the coalescence of pores; however, the average size of the pores increased. Orig. art. has: 3 figures.

SUB CODE: 11,13/ SUBM DATE: 20Mar65/ ORIG REF: 006/ OTH REF: 001

Card 2/2 vmb

BALASHOVA, N.Z., kandidat khimicheskikh nauk.

Contemporary problems in electrochemistry; a conference in Moscow.
Vest. AN SSSR 27 no.1:107-110 Ja '57. (MLRA 10:4)
(Electrochemistry--Congresses)

BALASHOVA, O. N.

Ca

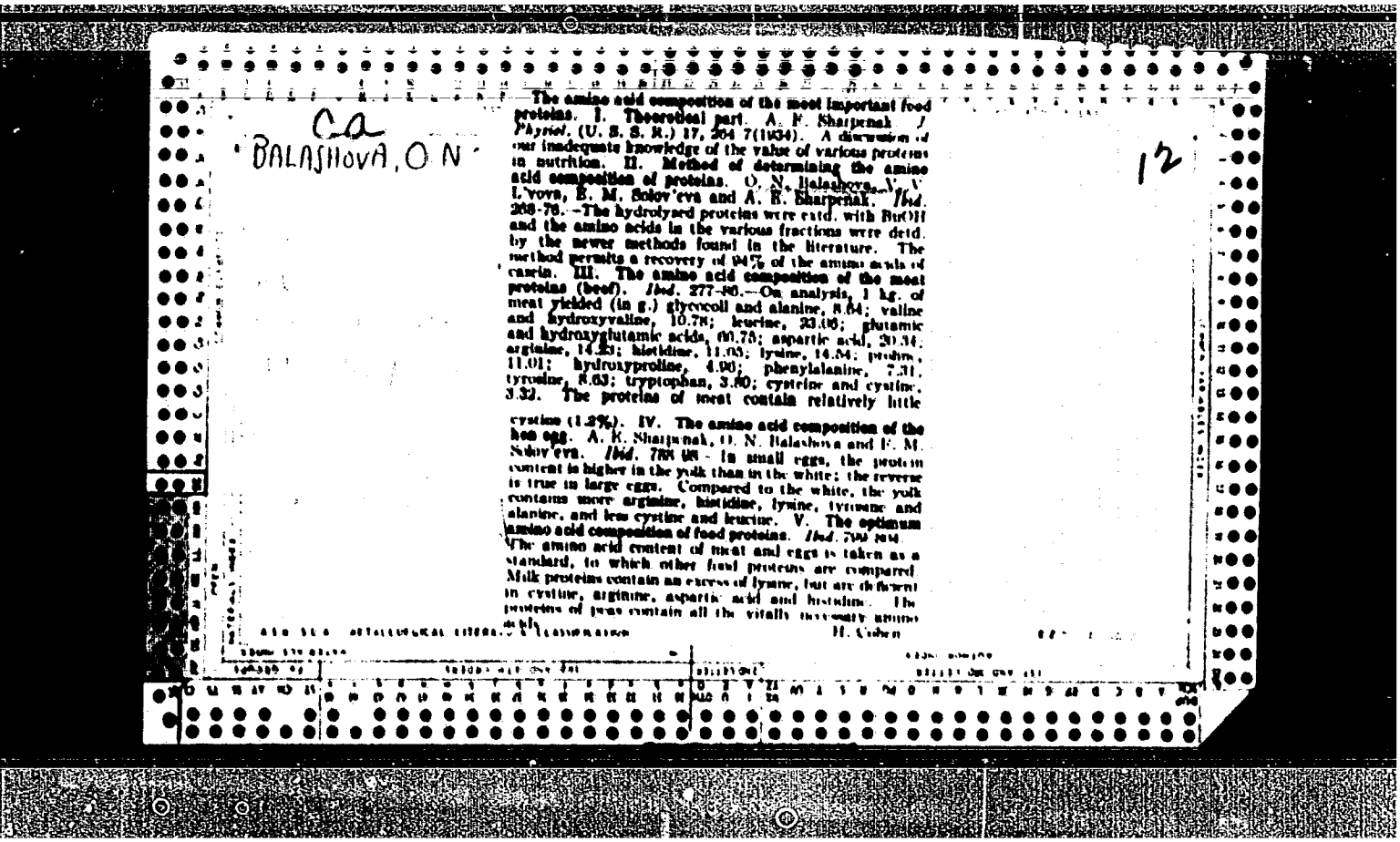
1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

11A

The amino acid constituents of the protein of fish. I. The tyrosine, cystine and tryptophan contents of the protein of sandart flesh. A. R. Sharpenak, O. N. Balashova and Perasovskaya. *Voprosy Pitaniya* 3, No. 6, 57 (1934); *Chem. Zentr.* 1936, I, 1334; cf. *C. A.* 29, 1998[1]. The percentage (referred to the total protein content) of each of these 3 is higher in the flesh of the sandart than in beef. Values obtained were: tyrosine 4.74% (in beef 4.42%), tryptophan 2.23% (beef 1.94) and cystine 1.49% (beef 1.20). M. G. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



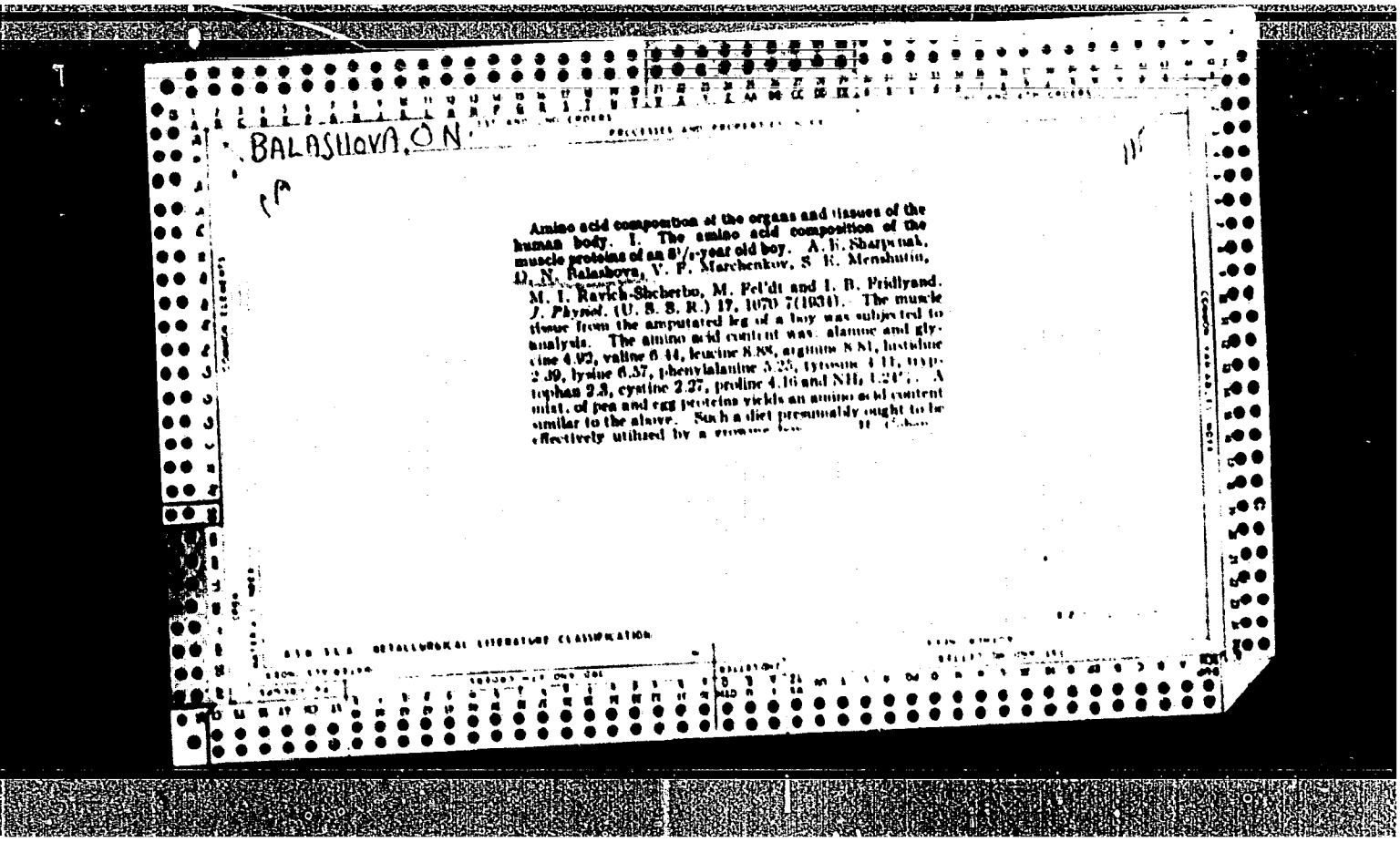
Ca

BALASHOVA, O N

12

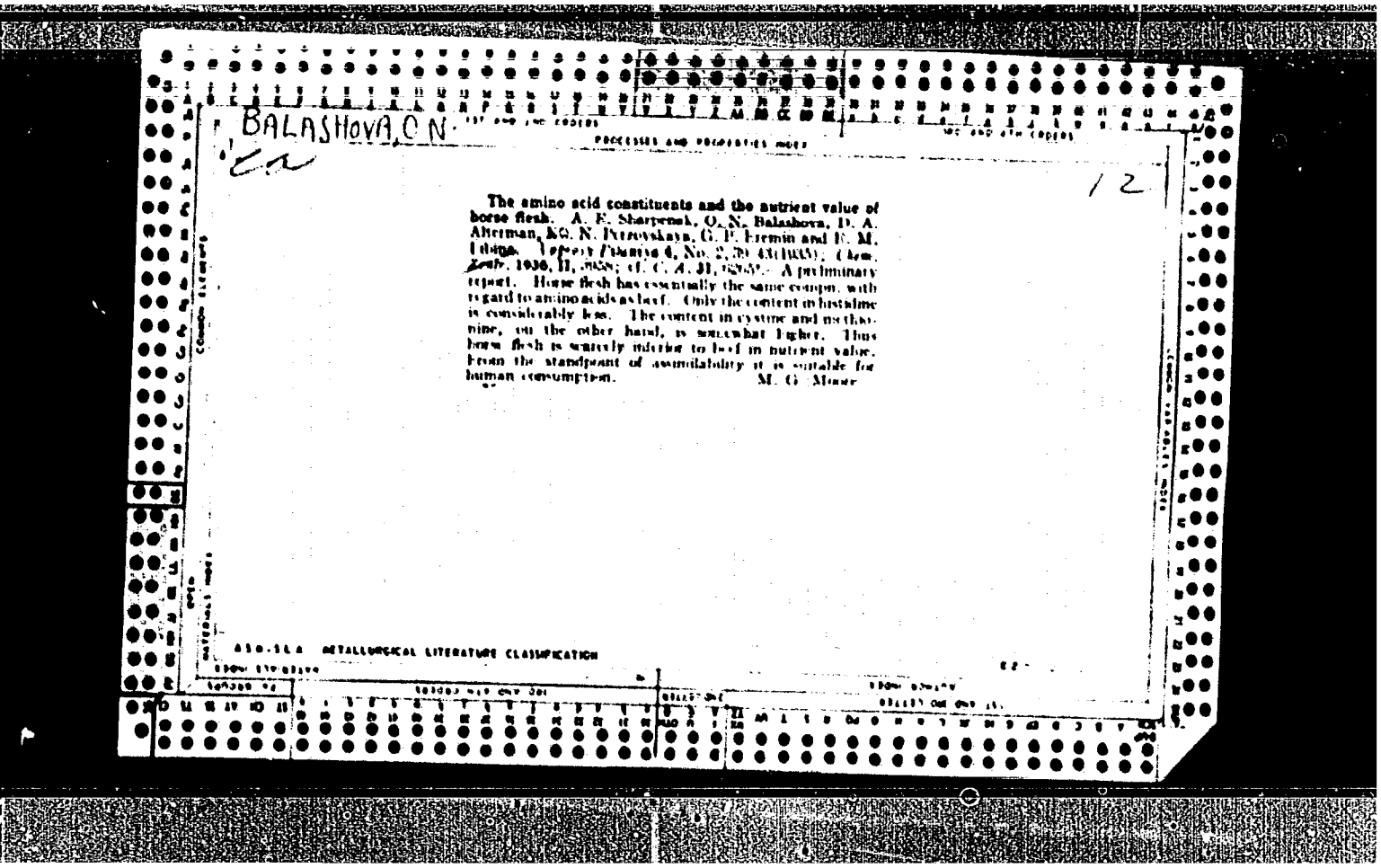
The amino acid composition of the most important food proteins. I. Theoretical part. A. F. Sharpenak. *J. Physiol.* (U. S. S. R.) 17, 264 7(1934). A discussion of our inadequate knowledge of the value of various proteins in nutrition. II. Method of determining the amino acid composition of proteins. O. N. Balashova, V. V. L'vova, E. M. Solov'eva and A. F. Sharpenak. *Ibid.* 268-76.—The hydrolyzed proteins were extd. with BuOH and the amino acids in the various fractions were detd. by the newer methods found in the literature. The method permits a recovery of 94% of the amino acids of casein. III. The amino acid composition of the meat proteins (beef). *Ibid.* 277-86.—On analysis, 1 kg. of meat yielded (in g.) glycocoll and alanine, 8.64; valine and hydroxyvaline, 10.78; leucine, 23.06; glutamic and hydroxyglutamic acids, 60.75; aspartic acid, 20.34; arginine, 14.23; histidine, 11.03; lysine, 16.54; proline, 11.01; hydroxyproline, 4.00; phenylalanine, 7.31; tyrosine, 8.63; tryptophan, 3.80; cystine and cystine, 3.32. The proteins of meat contain relatively little cystine (1.2%). IV. The amino acid composition of the hen egg. A. F. Sharpenak, O. N. Balashova and E. M. Solov'eva. *Ibid.* 788 98 - In small eggs, the protein content is higher in the yolk than in the white; the reverse is true in large eggs. Compared to the white, the yolk contains more arginine, histidine, lysine, tyrosine and alanine, and less cystine and leucine. V. The optimum amino acid composition of food proteins. *Ibid.* 799 804. The amino acid content of meat and eggs is taken as a standard, to which other food proteins are compared. Milk proteins contain an excess of lysine, but are deficient in cystine, arginine, aspartic acid and histidine. The proteins of peas contain all the vitally necessary amino acids.

H. Cohen



BALASHOVA, O N

Amino acid composition of the organs and tissues of the human body. I. The amino acid composition of the muscle proteins of an 8½-year old boy. A. B. Sharyenak, O. N. Balashova, V. F. Marchenkov, S. R. Menshutin, M. I. Ravich-Shcherbo, M. Pel'dt and I. B. Pridlyand. *J. Physiol.* (U. S. S. R.) 17, 1070 7(1934). The muscle tissue from the amputated leg of a boy was subjected to analysis. The amino acid content was: alanine and glycine 4.92, valine 6.44, leucine 8.88, arginine 8.81, histidine 2.39, lysine 6.57, phenylalanine 3.25, tyrosine 4.11, tryptophan 2.3, cystine 2.27, proline 4.16 and NH₂ 1.24%. A mixt. of pea and egg proteins yields an amino acid content similar to the above. Such a diet presumably ought to be effectively utilized by a [illegible]



BALASHOVA, O. N.

12

The amino acid constituents and the nutrient value of horse flesh. A. E. Sharpenak, O. N. Balashova, D. A. Afterman, [illegible] N. Petrovskaya, G. P. Eremin and P. M. [illegible]. [illegible]. Chem. Zentr. 1930, II, [illegible]; cf. C. A. 31, [illegible]. A preliminary report. Horse flesh has essentially the same compn. with regard to amino acids as beef. Only the content in histidine is considerably less. The content in cystine and methionine, on the other hand, is somewhat higher. Thus horse flesh is scarcely inferior to beef in nutrient value. From the standpoint of assimilability it is suitable for human consumption. M. G. Mazur

A50-51A METALLURGICAL LITERATURE CLASSIFICATION

BALASHOVA, O.N.

CA

PROCESSES AND PROPERTIES INDEX

/2

The amino acids of the proteins of pork. A. F. Sherpenak, O. N. Balashova, F. M. Lilman, Kh. N. Petrovskaya and G. P. Eremin. *Voprosy Pitaniya* 6, No. 1, 31-3(1937); *Chimie & industrie* 39, 783.—The proteins of pork contain a larger proportion of tryptophan, cystine, methionine, phenylalanine and lysine than beef; their nutritive value must therefore be higher. A. P.-C.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

BALASHOVA, O.N.

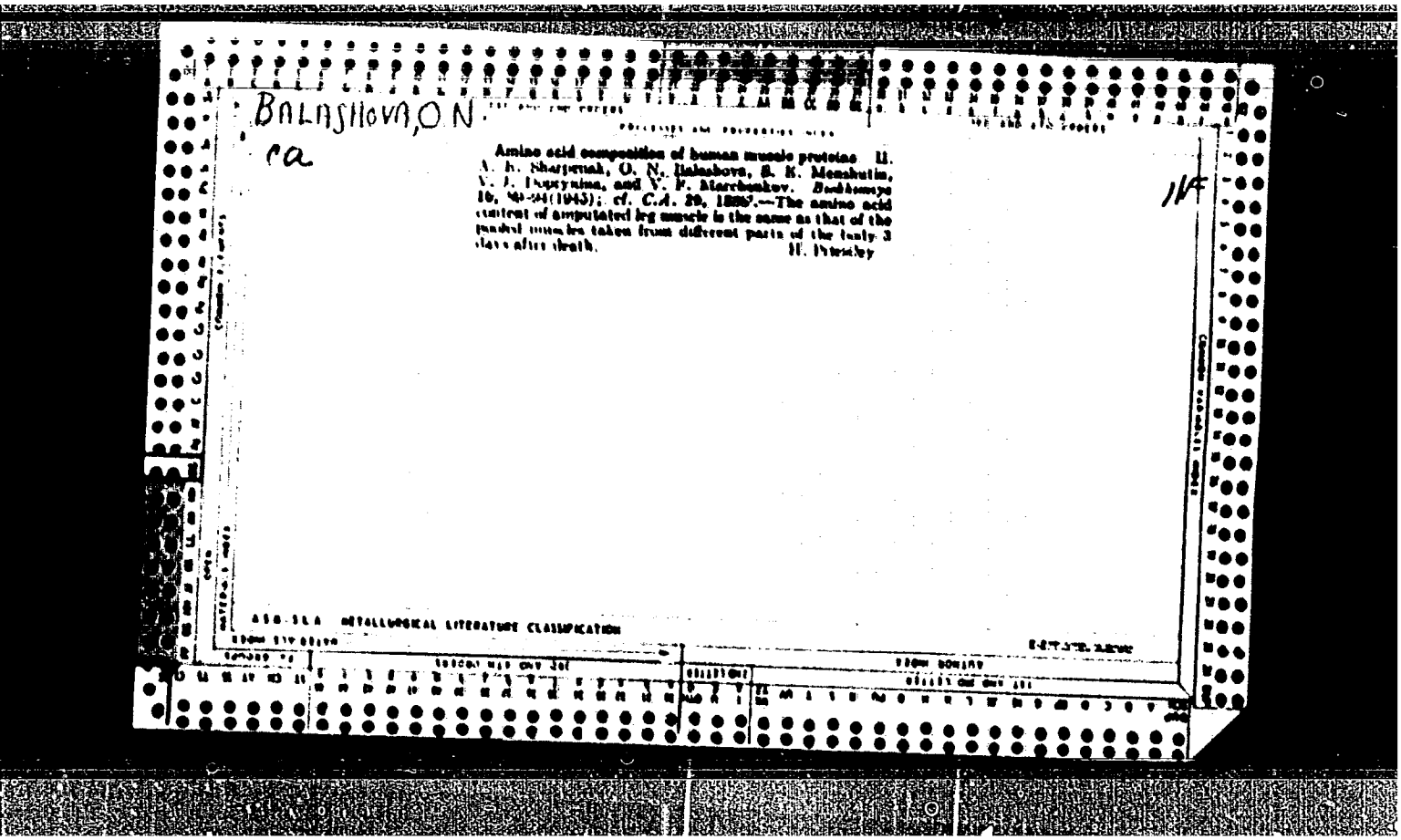
PROCESSES AND PROPERTIES INDEX

CA

12

The amino acids of fish proteins. II. A. K. Shatpenak, O. N. Balashova and I. P. Gur'eva. *Voprosy Pitaniya* 6, No. 1, 34-6(1937); *Chimie & industrie* 39, 505; cf. *C. A.* 31, 6265[9]. —A study of the alanine, valine, leucine, phenylalanine, dicarboxylic acids, diamino acids, and other contents of the protein of *Lucioperca sandra*. Comparison of the results with those found for beef shows that the proteins of *sandra* have at least the same nutritive value as those of beef; they contain appreciably more cystine and methionine than beef. A. P. C.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION



FALASHOVA, O. N.

Sharpenak and O. N. Falashova, 1. "A method of isolating proteins from vegetable products,"--2. "Diamino acid, histidine, tyrosine, tryptophan and cystine content of buckwheat proteins,"--3. "Diamino acid, histidine, tyrosine, tryptophan and cystine content of rice proteins,"--4. "Diamino acid, histidine, tyrosine, tryptophan and cystine content of 30 percent wheat flour proteins,"--5. "Diamino acid, histidine, tyrosine, tryptophan and cystine content of rye flour proteins,"--6. O. N. Falashova and A. I. Taranova, "Arginine, lysine, histidine, tyrosine, tryptophan and cystine content of potato, cabbage and carrot proteins,"-- O. N. Falashova, A. I. Taranova and L. A. Grozhankina, 7. "Arginine lysine, histidine, tyrosine, tryptophan and cystine content of the proteins of the meat and liver of the sheep,"--8. "Diamino acid, histidine, tyrosine, tryptophan and cystine content of codfish proteins," Nauch. trudy in-ta, pitaniya (Akad. med. nauk SSSR), Moscow, 1949, p. 86-112--Bibliog: 23 items

So: U-3566, 16 March 53, (L topis 'Zhurnal 'nykh Statey, No. 13, 1949)

BALASHOVA, O.N.

Changes in the concentration of proteins in the liver and their amino acid composition caused by protein deficiency in the food. Vop.med.khim. 4:161-167 '52. (MIRA 11:4)

1. Kafedra biokhimii II Moskovskogo meditsinskogo instituta imeni I.V.Stalina.

(LIVER) (PROTEIN METABOLISM)

SHARPENAK, A.E.; KARPYCHEVA, V.E.; PALADIEVA, C.E.

Assimilation of calcium and phosphorus from powdered bone. Vop.pit. 16 no.1:56-61 My-Je '57. (MIRA 10:10)

1. Iz kafedry biokhimii (zav. - prof. A.E.Sharpenak) Moskovskogo meditsinskogo stomatologicheskogo instituta.

(CALCIUM, metabolism,
assimilation from food enriched with powdered bone (Rus))
(PHOSPHORUS, metabolism,
same)
(FOOD,
enriched with powdered bone assimilation of calcium & phosphorus from (Rus))
(BONE AND BONES,
powdered in enriched food, assimilation of calcium & phosphorus from (Rus))

BALASHOVA, S.A.; SLOVOKHOTOVA, T.A.; BALANDIN, A.A.

Effect of the structure of saturated hydrocarbons on their activity in the reaction with water vapor on Ni-Cr_2O_3 catalyst. Izv. AN SSSR Ser. khim. no.2:275-281 '65.

(MIRA 18:2)

1. Moskovskiy gosudarstvennyy universitet.

BALASHOVA, S.A.; PATRIKEYEV, V.V.; BALANDIN, A.A.

[illegible] to prepare a chemical model of the action of alcohol dehydrogenase. Izv. AN SSSR. Ser. khim. no.7:1273-1274 '65. (MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

Balashova, S. F.

USSR / Chemical Technology. Chemical Products and Their Application I-27

Wood chemistry products. Cellulose and its manufacture. Paper.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32656

Author : Chistov I.F., Balashova S.F.

Title : Production of Butyl Acetate from Hydrolysis Liquor

Orig Pub: Sb.:V Pomoshch' lesokhimiku. M., 1956, 71-84

Abstract: No abstract.

Card 1/1

YUR'YEV, Yu.K.; MEZENTSOVA, N.N.; BALASHOVA, T.A.

Chemistry of selenophene. Part 8: N-(selenenal-2) - amines, 2-phenyl-4-(selenenal-2)- oxazolone-5, 5-(selenenal-2 - thiazolidone -4- thion-2 selenenal-2-rodanine) and hydrazothiazolynon selenophene-2-aldehyde. zhur. ob. khim. 27 no.9:2536-2541 S '57. (MIRA 11:3)

1.Moskovskiy gosudarstvennyy universitet.
(Selephone)

BALASHOVA, T.D.; SADOV, F.I.

Studying the removal of hydrolized active dyes from dyed cellulose fibers. Report No. 2. Izv. vys. ucheb. zav.; tekh. tekst. prom. no. 6:130-135 '63 (MIRA 17:8)

1. Moskovskiy tekstil'nyy institut.

SADOV, F.I., prof.; BALASHOVA, T.D., aspirantka

Effect of additives on the desorption of hydrolyzed active dyes from dyed cellulose fabrics. Tekst. prom. 24 no.2 58-61 F '64. (MIRA 17:3)

1. Moskovskiy tekstil'nyy institut.

SAPOV, F.I., prof.; BALASHOVA, T.D., aspirantka

Analyzing the process of desorption of hydrolized active dyes from dyed cellulose fibers. Tekst. prom. 24 no.4:61-63 Ap '64. (MIRA 17:6)

1. Moskovskiy tekstil'nyy institut.

LEN'KOV, V.I., doktor veterin. nauk; LEN'KOVA, V.A., kand. veterin. nauk; YAKUBO, Yo.F., mladshiy nauchnyy sotrudnik; BALASHOVA T.G., mladshiy nauchnyy sotrudnik; GERMAN, u.T., mladshiy nauchnyy sotrudnik

Enterotoxemia of calves caused by Clostridium perfringens.
Veterinariia 41 no.1:15-18 Ja '65. (MIRA 18:2)

1. Yuzhno-Kazakhstanskaya nauchno-issledovatel'skaya veterinarnaya stantsiya.

BALASHOVA, T.L.; REL'SKAYA, Yu.R.; SAPRONOV, V.A.; SOKOLOV, V.D.

Compound for the automatic greasing of the inside surface of treads.
Kauch. i rez. 24 no.5:50 My '65. (MIRA 18:9)

1. Dnepropetrovskiy shinnyy zavod.

TYURYAYEV, I. Ya.; BALASHOVA, T.L.

Rate of carbon formation in the vacuum dehydrogenation of isopentane-isoamylene mixture to isoprene. Kin. i kat. 2 no.2:247-251 Mr-Ap '61. (MIRA 14:6)

1. Nauchno-issledovatel'skiy institut monomerov dlya sinteticheskogo kauchuka, Yaroslavl'.
(Isoprene) (Dehydrogenation)

NOVIKOV, I.M.; SAPRONOV, V.A.; ONISHENKO, Z.V.; SIMAKOVA, E.P.; BEL'SKAYA, Yu.R.; BALASHOVA, T.L.; Prinimali uchastiye: KALINICHENKO, V.N.; LITVINENKO, L.A.

Granulation of butadiene-styrene and natural rubber in the Dniepropetrovsk Rubber Tire Plant. Kauch. i rez. 22 no.12: 44-48 D '63. (MIRA 17:9)

1. Dnepropetrovskiy shinnyy zavod (for all except Kalinichenko, Litvinenko). 2. Dnepropetrovskiy filial Nauchno-issledovatel'skogo instituta shinnoy promyshlennosti (for Kalinichenko, Litvinenko).

NIKOLAYEVSKIY, N.M.; BALASHOVA, T.V.

Methodological bases and calculations of specific capital investments in the production of petroleum for fuel. Trudy VNII no.39:3-19 '63. (MIRA 17:10)

VOLKOVA, G.[illegible]; PAL[illegible]KOVA, T.Y.; [illegible]; [illegible], M.M.

Basic assumptions of a method for the determination of economic efficiency in the automatic and remote control of petroleum production. Trudy VNII no.39:[illegible]-138 '63. (MIRA 17:10)

BRENNER, M.N.; BALASHOVA, T.V.; BUCHEVA, V.N.

Effectiveness of capital investments in the oil production industry. Trudy VNII no.26:159-167 '60. (MIRA 13:9)
(Capital investments) (Petroleum industry)

VOLKOVA, G.A.; BALASHOVA, T.V.; BUCHEVA, V.N.; FLESHKO, A.M.

Economic efficiency of remote control methods in oil production.
Trudy VNII no.22:136-149 '59. (MIRA 15:4)
(Oil fields--Electronic equipment) (Remote control)

CHERNUKH, A.M.; BALASHOVA, V.A.

Effect of chlortetracycline and tetracycline on the iron content of the blood serum. Antibiotiki 4 no.4:75-78 Jl-Ag '59. (MIRA 12:11)

1. Laboratoriya patologicheskoy fiziologii Instituta pediatrii AMN SSSR.

(CHLORTETRACYCLINE pharmacol)
(TETRACYCLINE pharmacol)
(IRON blood)

CHERNUKH, A.M., prof.; BALASHOVA, V.A.

Effect of aminazine on the permeability of skin capillaries in various age periods. Farm. i toks. 28 no.1:61-63 Ja-F '65. (MIRA 18:12)

1. Laboratoriya patofiziologii (zav. - prof. N.V.Puchkov) Instituta pediatrii AMN SSSR i otdela khimioterapii (zav. - prof. A.M.Chernykh) Instituta farmakologii i khimioterapii AMN SSSR, Moskva. Submitted January 13, 1964.

VVEDENSKIY, B. A.; BALASHOVA, V. I., Academicians

Section on Scientific Solution of Problems in Electric Communications, Academy of Sciences, USSR. "Calculation of 'Non-Reflecting' Coating' in a Wave Guide." Iz. Ak. Nauk SSSR, Otdel. Tekh. Nauk, No. 7-8, 1945. Submitted 4 Jun 1945.

Report U-1582, 6 Dec 1951.

KHOMUTOV, B.I., kand.tekhn.nauk; ZOLOTAREVA, P.K.; GENING, L.N., inzh.; BALASHOVA, V.K.; VOL'VOVSKAYA, Ye.A., inzh.

Unsaturated fatty acids content of margarine. Masl.-zhir.prom. 28 no.12:15-17 D '62. (MIRA 16:1)

1. Laboratoriya Ministerstva zdravookhraneniya SSSR (for Khomutov, Zolotareva). 2. Moskovskiy margarinovyy zavod (for Gening, Balashova, Vol'vovskaya).
(Oleomargarine) (Acids, Fatty)

LOBANOV, D.I., doktor tekhn. nauk; BRENTS, M.Ya.; ZOLOTOVA, A.I.; BALASHOVA, V.K., inzh.; VOL'VOVSKAYA, Ye.A., inzh.; GENING, L.N., inzh.; POLYAKOVA, L.I., inzh.

Vitaminization of mayonnaise by means of vitamin A acetate. Masl.-zhir. prom. 29 no.5:40-41 My '63. (MIRA 16:7)

1. Institut pitaniya AMN SSSR (for Lobanov, Brents, Zolotova).
2. Moskovskiy margarinovyy zavod (for Balashova, Vol'vovskaya, Gening, Polyakova).
(Vitamins) (Salad dressing)

ISAGULYANTS, V.I.; BALASHOVA, V.V.

Low temperature chlorination of tertiary amylenes extracted from the pentane - amylene cracking fraction. Izv. vys. ucheb. zav.; neft' i gaz no.6:67-72 '58. (MIRA 11:9)

1. Moskovskiy neftyanoy institut im. akad. I.M. Gubkina i Groznenskiy neftyanoy institut.
(Pentene) (Chlorination) (Cracking process)

ISAGULIANTS, V.I.; BALASHOVA, V.V.

Low-temperature chlorination of tertiary amylenes of petroleum origin with benzenesulfonic acid dichloroamide. Izv. vys. ucheb. zav.; neft' i gaz 3 no.12:85-89 '60. (MIRA 14:10)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika I.M. Gubkina, Groznenskiy neftyanoy institut.

(Butene)
(Benzenesulfonic acid)
(Chlorination)

ISAGULYANTS, V.I.; BALASHOVA, V.V.

Low-temperature chlorination of tertiary ethylenic hydrocarbons of petroleum origin having the composition C_4 and C_8. Zhur. prikl. khim. 33 no.12:2762-2768 D '60. (MIRA 14:1)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni I.M. Gubkina i Groznenskiy neftyanoy institut.
(Chlorination) (Diisobutylene)
(Propene)

BALASHOVA, V. V.

Cand Chem Sci - (diss) "Study in the field of the synthesis of several chloro-derivatives of olefins by destructive refining of petroleum raw material, and means for their application." Gorznyy, "Groznyy Workers" Magazine, 1961. 20 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Labor Red Banner Inst of Petrochemical and the Gas Industry imeni I. M. Gubkin); 170 copies; price not given; (KL, 6-61 sup, 197)

25396
S/080/61/034/002/018/025
A057/A129

15 8121

AUTHORS: Isagulyants, V.I., Balashova, V.V.

TITLE: Substituted epichlorohydrines from petroleum raw material

PERIODICAL: Zhurnal Prikladnoy Khimii, v 34, no 2, 1961, 424-430

TEXT: Four new dichlorohydrines were synthesized from chlorallyl compounds by hypochlorination with monochloro-carbamide solution corresponding to a method described by A.Detoeuf (Ref 2: Bull. Soc. Chim. France, 31, 102, 171 (1922)) and M.V. Likhosherstov, S.V. Alekseyev (Ref 3: ZhOKh, 3,8, 927 (1933)). The chloro-allyl compounds were prepared from a pentane-amylene fraction of a low-temperature cracking product (Ref 1: "Trudy vsesoyuznogo soveshchaniya po neftekhimicheskomu sintezu i proizvodstvu novykh vidov motornykh topliv" ("Proceedings of the All-Union Congress on Syntheses in Petroleum Chemistry and Production of New Types of Motor Fuels" , Groznyy (1958)) by a low-temperature chlorination with chloro-

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Substituted epichlorchydrines ...

amide. By dehydrochlorination of the obtained dichlorohydrines 3 new substituted epichlorohydrines were prepared. The present work demonstrates the possibility of preparation of epichlorohydrines from olefines obtained by petroleum cracking. Epichlorohydrine is used for the production of epoxide resins, which are important for the manufacture of various plastics and similar materials. The characteristics of the obtained dichlorohydrines and substituted epichlorohydrines are presented in Tab. 1, 2. Hypochlorination of the chloroallyl compounds was carried out with acidified (H_2SO_4) aqueous solution of monochloro-carbamide using $CuCl_2$ as catalyst and shaking the mixture by keeping the temperature at a maximum of 15-17°C. By shaking with water the dichlorohydrines were separated from impurities, which remained in the oil phase. After saturation with NaCl the dichlorohydrines were extracted with ether. Hypochlorination of 3-chloro-2-methylpropene-1 and 3-chloro-2-ethylpropene-2 yields isomers (I and II in Tab. 1) with the structure of a tertiary alcohol, while in hypochlorination of 3-chloro-2-methylbutene-1 and 1-chloro-2-methylbutene-2 besides tertiary dichlorohydrine (III) primary (IV) and secondary (V) dichlorohydrines are formed, which are apparently abnormal products of

Card 2/6

S/080/61/034/002/018/025
A057/A129

addition of hypochlorous acid. The yield of dichlorohydrines varies from 50 to 64%. It was observed that abnormal chlorination occurring during hypochlorination is a single reaction, since no products of hypochlorination were isolated. This is in agreement with observations by A. Umnova (Ref 6: ZhRFKhO, 42, 1530 (1910)). From dichlorohydrines the substituted epichlorohydrines were prepared with a 80% KOH solution. According to A.A. Petrov (Ref 7: ZhOKh, 15, 931 (1945)) in dehydrochlorination of dihalogenohydrines the oxide is formed mainly by splitting off the halogene in the least hydrogenized carbon atom. Correspondingly the structural formulae were written in Tab. 2. There are 2 tables and 7 references: 6 Soviet-bloc and 1 non-Soviet-bloc.

SUBMITTED: June 2, 1960

Card 3/6

ISAGULYANTS, V.I.; BALASHOVA, V.V.

Epoxide resins on the basis of substituted epichlorohydrins.
Zhur.prikl.khim. 35 no.11:2477-2482 N '62. (MIRA 15:12)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni I.M.Gubkina i Groznenskiy neftyanoy institit.
(Expoxy resins) (Epichlorohydrin)

BALASHOVA, Ye.A.

Morphology, phylogeny and the stratigraphic significance of the Early Ordovician subfamily Ptychopyginae in the Baltic region. Vop. paleont. 4:3-58 '64. (MIRA 17:5)

BALASHOVA, E. A., Mbr. Order Lenin, Leningrad State University.

"Sense Organs in **Trilobites**," Dok. AN, 61, No. 3, 1948.

BALAKHOVA, YE. A.

Goniatites of the Carboniferous in Ber-Chogur

In the coal-bearing deposits of Ber-Chogur ammonoidea have been found for the first time in 1939 in the lower part of the Dzhagana strata, and all belonging to one genus, Initoceras (family Cheiloceratidae). The author describes five species, of which one is new. Consideration of the described species leads the author to the conclusion that the goniatite horizon in the carboniferous of Ber-Chogur is synchronous with the so-called "Gattendorfia stratum"; i.e. it possesses an early Turney age, which is confirmed by other fauna of the same region. Therefore the author draws the boundary of the Devonian and Carboniferous on the base of the lower part of the Dzhangana strata. (RZhGeol, No. 6, 1955) Yezhegod. Vsesa. paleontol. o-va, 1953, 189-202.

SO: Sum No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

BALASHOVA, Ye.A.; BALASHOV, N.G.; MALIVKIN, D.V., akademik.

New find of Upper Famennian fauna in Kazakhstan. Dokl.AN SSSR 92 no.2:413-416 S '53. (MLRA 6:9)

1. Akademiya nauk SSSR (for Malivkin).
(Kazakhstan--Paleontology) (Paleontology--Kazakhstan)

ALIKHOVA, T.N.; BALASHOVA, Ye.A.; BALASHOV, Z.G.; NIKITINA, V.N., redaktor; POPOV, N.D., tekhnicheskiy redaktor.

[Field manual of characteristic fauna groups in the Ordovician and Gothlandian deposits of southern Lithuania] Polevoi atlas kharakternykh kompleksov fauny otlozhenii ordovika i gotlandiia iuzhnoi chasti Litovskoi SSR. Pod red. T.N.Alikhovoi. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geologii i okhrane nedr, 1954. 98 p. (MLRA 8:2)
(Lithuania--Paleontology)

BALASHOVA, Ye.A.; BALASHOV, Z.O.

Data on the study of upper Famennian fauna of Kazakhstan. Vest. Len.un.9 no.1:179-202 Ja '54. (MLRA 9:7)
(Kazakhstan--Paleontology)

BALASHOVA, Ye.A.

Morphology of Trilobites. Vop. paleont. 2:19-35 '55.
(Trilobites) (MIRA 9:2)

BALASHOVA, Ye.A.

Products of Tournaisian deposits in Ber-Chogur (Mugodshar Hills)
Uch.zap.Kan.un. no.189:124-157 '55. (MLRA 8:12)
(Mugodshar Hills--Geology, Stratigraphic)

15-1957-3-2690

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3, p 25 (USSR).

AUTHOR: Balashova, Ye. A.

TITLE: Some Tournaisian Brachiopods From Berchogur (Mugodzhary) /Nekotoryye turneyskiye plechenogiye Berchogura (Mugodzhary)/

PERIODICAL: Uch. zap. LGU, 1956, Nr 209, pp 101-120

ABSTRACT: The author describes 14 species from the families Rhipidomellidae (2 species from the genus Rhipidomella, from the lower part of the Dzhanganinskaya series), Schizophoriidae (3 species from the genus Schizophoria, from the Dzhanganinskaya, Berchogurskaya, and Karabulakskaya series), and Strophomenidae (3 species of Schellwienella, 1 of Schuchertella, 1 of Orthotetes, 2 of Streptorhynchus, and 1 of Leptaena, from the Dzhanganinskaya, Berchogurskaya, and Karabulakskaya svity (series). The richest fauna is found in the Dzhanganinskaya series, which corresponds to the lower part of the lower Tournaisian.

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15-1957-3-2690

Some Tournaisian Brachiopods From Berchogur (Mugodzhary)

The Bechogurskaya series corresponds to the upper part of the lower Tournaisian and the Karabulakskaya series to the upper Tournaisian. The species studied have been recognized in the Carboniferous rocks of the Donets Basin (1), the Moscow basin (3), Kazakhstan (3), the Kuznetsk Basin (1), the Urals (1), the Anglo-Belgium basin (3), and North America (7). The small number of forms in common with the Urals area is explained by the lack of study of brachiopods from the Urals. The paper has two tables and a bibliography with 24 references.

Card 2/2 T. G. S.

BALASHOVA, Ye.A.; BALASHOV, Z.G.

Stratigraphy of Ordovician glauconite and orthoceratite layers in the northeastern part of the Russian Platform. Uch. zap.LGU no.268:127-154 '58. (MIRA 12:6)
(Russian Platform--Geology, Stratigraphic)

BALASHOVA, Ye.A.

Middle and upper Ordovician and lower Silurian trilobites of the eastern Taymyr Peninsula and their stratigraphic significance. Sbor.st.po paleont.i biostrat. no.17:5-40 '59. (MIRA 13:8)
(Taymyr Peninsula--Trilobites)

BALASHOVA, Ye.A.

The new Protophychopyge from the lower Ordovician of the Baltic Sea region. Paleont.zhur. no.4:125-129 '59.
(MIRA 13:6)

1. Leningradskiy gosudarstvennyy universitet imeni. A.A. Zhdanova.
(Leningrad Province--Trilobites)

BALASHOVA, Ye.A.

Middle and upper Ordovician and lower Silurian trilobites of the eastern Taymyr Peninsula and their stratigraphic significance. Sbor.st.po paleont.i biostrat. no.15:27-55 '59. (MIRA 13:4)
(Taymyr Peninsula--Trilobites)

BALASHOVA, Yevrosiniya Antonovna; KUZ'MIN, A.A., red.; ZHUKOVA, Ye.G., tekhn.red.

[Trilobites from middle and upper Ordovician and lower Silurian deposits of the eastern Taymyr] Trilobity srednego i verkhnego ordovika i nizhnego silura Vostochnogo Taimyra. Leningrad, Izd-vo Leningr.univ., 1960. 111 p. (MIRA 14:1)
(Taymyr Peninsula--Trilobites)

MAKSIMOVA, Zlata Aleksandrovna; NALIVKIN, D.V., akademik, glavnyy red.; BUBLICHENKO, N.L., doktor geol.-mineral.nauk, otv.red.; BALASHOVA, Ye.A., kand.geol.-mineral.nauk, red.; ABRKVICH, P.L., red.izd-va; IVANOVA, A.G., tekhn.red.

[Paleontological basis of Paleozoic stratigraphy in the Rudnyy Altai] Paleontologicheskoe obosnovanie stratigrafii paleozoia Rudnogo Altaia. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.7. [Devonian and Carboniferous trilobites of the Rudnyy Altai] Devonskie i kamennougol'nye trilobity Rudnogo Altaia. 1960. 122 p. (MIRA 13:12)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. Altayskiy gorno-metallurgicheskiy nauchno-issledovatel'skiy institut.
(Altai Mountains--Trilobites)

BALASHOVA, Ye.A.

Spiriferidae from Tournaisian deposits of Berchogur (Mugodzhary). Vop.paleont. 3:82-131 '60.
(MIRA 13:6)
(Berchogur region--Brachiopoda, Fossil)

BALASHOVA, Ye.A.

Find of a new trilobite in the glauconite series of the Baltic Sea region. Paleont.zhur. no.3:129-132 '61. (MIRA 15:2)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.
(Baltic Sea region--Trilobites)

BALASHOVA, Ye.A.

Certain tremadoc trilobites in Aktyubinsk Province. Trudy GIN no.18:102-145 '61. (MIRA 14:6)
(Aktyubinsk Province—Trilobites)

BALASHOVA, Ye.A.; BALASHOV, Z.G.

Stratigraphy of Tallina limestone in Leningrad Province. Vest.LGU 16 no.12:42-55 '61. (MIRA 14:6)
(Leningrad Province--Limestone)

BALASHOVA, Ye.A.

First find of Upper Cambrian trilobites in the Russian Platform.
Vest. LGU 18 no.12:126-128 '63. (MIRA 16:8)
(Russian Platform--Trilobites)

ALIKHOVA, T.N.; BALASHOVA, Ye.A.; BALASHOV, Z.G.; SELIVANOVA, V.A.

Establishing a unified geologic time record for the Ordovician of the Russian Platform. Trudy Geol. muz. AN SSSR no.14:20-26 '63. (MIRA 17:11)

BALASHOVA, Ye. G.

KOSMARSKAYA, Yo. N.; BALOSHOVA, Ye G.

Peculiarities of the medulla oblongata blood supply. Vopr. neirokhir. 15 no. 6:50-56 Nov-Dec. 1951. (CIML 21:3)

1. Candidate Biological Sciences Kosmarskaya. 2. Of the Division for the Study of Brain Development (Head -- Prof. B. N. Klosovskiy), Order of the Red Banner of Labor Institute of Pediatrics (Director -- Prof. G. N. Speranskiy, Active Member of the Academy of Medical Sciences USSR.

BALASHOVA, E. G.

Dissertation: "On the Question of the Relationship of Nerve cells to Capillaries in Certain Nuclei of the Brain Stem." Cand Med Sci, Acad Med Sci USSR, 24 Jun 54. (Vechernyaya Moskva, Moscow, 15 Jun 54)

SO: SUM 318, 23 Dec. 1954

BALABKOVA, Ye.G.

Relation between nerve cells and capillaries in the brain in adult animals. Biul.eksp.biol.med. 42 no.7:71-74 Jl '56. (MLRA 9:9)

1. Iz laboratorii izucheniya razvitiya mozga (zav. - chlen-korrespondent AMN SSSR B.N.Klosovskiy) Instituta pediatrii AMN SSSR, Moskva. Predstavlena deyatvitel'nym chlenom AMN SSSR O.M.Speranskim

(BRAIN, anatomy and histology,
nerve cells & capillaries, correlation in adult animals (Rus))
(CAPILLARIES,
brain, relation to nerve cells in adult animals (Rus))

БАЛАШОВА Е.Г.

USSR / General Biology. General Histology B-3

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 261

Author : Balashova, E.G.

Inst : Not Given

Title : Some Data as to the Condition of the Nerve Cells and Capillaries of the Trifacial Nerve Nuclei in the Post-natal Period of Development.

Orig Pub : Byul. eksperim. biol. i meditsiny, 1956, 42, No 8, 66-70

Abstract : The vascular network in the nuclei of the trifacial nerve of 91 cats was studied by silvering according to Kosovsky and injection of the carcass with gelatin. The nerve cells were stained by the Nissl method. In comparing newly-born kittens with grown cats, the number of nerve cells in the grown cats which come in contact with the capillaries was found to increase considerably. The progressive similarity with growth is explained by increase in the thickness of the vascular network in the nuclei of the trifacial nerve, which occurs

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Abs Jour : Ref Zhur - Biol., No 1, 1958, No 261

as a result of new formation of capillaries. The longation of the vascular network in these nuclei ends at two months. The development of individual capillaries can, however, still be seen in 5-month old animals. Two periods of intensive new formation of vessels in the nuclei of the trifacial nerve are noted. In the earlier one the maximum development falls on the 10th day of life; the second is related to the last 5 days of the first month. Vigorous development of capillaries in the 10-day old kitten coincides with opening of the eyes, many parts of which are served by the trifacial nerve. Improvement in the vascularization of its nuclei at the end of the first month is related to the transition of the animal from maternal milk feeding to independent nutrition.

GERASIMENKO, I.I.; KIRAL'CHICH, P.N.; LABENSKIY, A.S.; RALASHOVA, Ye.G.

Solanum aviculare as a source of steroids. Med.prom. 12 no.2:11-18 F '58. (MIRA 11:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh i aromaticheskikh rasteniy i Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.
(NIGHTSHADE) (ALKALOIDS)

BALASHOVA, Ye.G.

Relation of neurons to capillaries in the trigeminal nerve nucleus in mammals and in amphibians [with summary in English]. Arkh.anat. gist. i embr. 35 no.6:58-62 N-D '58. (MIRA 12:1)

1. Otdeleniye izucheniya razvitiya mozga (zav. - chlen-korr. AMN SSSR, prof. B.N. Klosovskiy) ordena Trudovogo Krasnogo Znameni instituta pediatrii. Adres avtora: Moskva, Ustinskiy proyezd, d. 1/2, Institut pediatrii AMN SSSR.

(NERVES, TRIGEMINAL, anat. & histol.
nerve cell-capillary relationship in nuclei (Rus))

BALASHOVA, Ye.G.

Vascularization of the nerve cells in the nuclei of the vestibular nerve. Arkh.anat.gist. i embr. 37 no.9:49-53 S '59. (MIRA 13:1)

1. Otdeleniye uzucheniya razvitiya mozga (zaveduyushchiy - chlen-korrespondent AMN SSSR prof. B.N. Klosovskiy) Instituta pediatrii AMN SSSR. Adres avtora: Moskva, Ustinskiy proyezd, d.1/2, Institut pediatrii.

(VESTIBULAR NERVE blood supply)

KLOSOVSKIY, B.N.; BALASHOVA, Ye.G.

Different structural types of the blood-vascular system of the agama brain. Zool. zhur. 40 no. 2:251-257 F '61. (MIRA 14:2)

1. Institute of Pediatry, Academy of Medical Sciences (Moscow).
(Lizards) (Brain—Blood vessels)

BALASHOVA, Ye.K., MASLOVA, M.N., PANYUKOV, A.N., ROZENGART, V.I.

Functional state of the central nervous system and phosphoprotein metabolism of the brain [with summary in English]. Biokhimiia 23 no.5:674-682 S-O '58 (MIRA 11:11)

1. Sanitarno-khimicheskiy institut Akademii meditsinskikh nauk SSSR, Leningrad.
(PHOSPHATES, metab.
phosphoproteins in brain, eff. of chem. inhib. & irritation in animals (Rus))
(BRAIN, metab.
phosphoproteins, eff. of chem. inhib. & irritation in animals (Rus))

BAIASHOVA, Ye. K.

Characteristics of the distribution of the hydrochloride 2-diethylaminoethylthio ester in the organism 2, 2-diphenyl-2-hydroxyacetic acid. Biul. eksp. biol. i med. 46 no.12:60-65 D '58. (MIRA 12:1)

1. Iz biokhimicheskoy laboratorii (zav. - prof. V. I. Rozengart) Vsesoyuznogo nauchno-issledovatel'skogo sanitarno-khimicheskogo instituta (dir. - S. N. Golikov) Leningrad. Predstavlena deystvitel'nym chlenom AMN SSSR S. V. Anichkovym.

(MANDELIC ACID, rel. cpds.
benzilic acid 2-diethylaminoethyl thioester, metab. (Rus))

L 23121-66 EWT(1) RO

ACC NR: AP5025870 SOURCE CODE: UR/0020/65/164/004/0937/0940

AUTHOR: Rozengart, V. I.; Balashova, Ye. K.

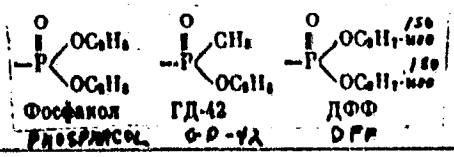
ORG: Institute of Toxicology, Leningrad (Institut toksikologii, Leningrad)

TITLE: The "aging" mechanism of cholinesterase depressed by an organophosphoric inhibitor

SOURCE: AN SSSR. Doklady, V. 164, no. 4, 1965, 937-940

TOPIC TAGS: organic phosphorous compound, systemic toxin, toxicology, enzyme, cell physiology, blood

ABSTRACT: Additional evidence is presented for dealkylation as the possible mechanism of aging, i.e., inability for cholinesterase reactivation. The rate of aging was studied in blood erythrocytes, using the mild dealkylator thiourea and the depressant organophosphorous compounds Phosphacol, GD-42 and DFF differing in the structure of the phosphoryl moiety which binds the enzyme during inactivation.



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L 23121-66

ACC NR: AP5025870 O

For reactivation of the depressed enzyme, 1,1-trimethylene-bis-(4-formyl-pyridine-bromide)dioxime (TMB-4) was applied. Erythrocytes were incubated with the depressant for 30 minutes, then reactivated with TMB-4 and various amounts of thiourea. Freshly depressed enzyme was completely reactivated by TMB-4; if the enzyme had been aged for 3 hours, this persisted with TMB-4 only for the DFF inhibitor. Added thiourea, at a final 0.2 M concentration, depressed reactivability in all cases, i.e., it accelerated aging. This is assumed to result from dealkylation. Thiourea was added to specimens and its effect tested after 5-180 minutes. This was found to be directly related to concentration and duration. It was concluded that these tests confirm the initial assumption and show that cholinesterase aging can be accelerated. Orig. art. has: 2 formulas, 1 table and 1 figure.

SUB CODE: 06, 07/ SUBM DATE: 11Dec64/ SOV REF: 003/ OTH REF: 012

Card 2/2 BLG

BALASHOVA, Yelena Nikolayevna; ZHITOMIRSKAYA, Ol'ga Moiseyevna; SEMENOVA, Ol'ga Aleksandrovna; ZHDANOVA, L.P., red.. V redaktirovanii prinimal uchastiye KOZIK, S.M., VLADIMIROV, O.G., tekhn.red.

[Climatic description of the republics of Central Asia] Klimaticheskoe opisanie respublik Srednei Azii. Leningrad, Gidrometeor.izd-vo, 1960. 240 p. (MIRA 13:8)
(Soviet Central Asia--Climate)

BALASHOVA, Z.

YUDAYEVA, V. (Kiyev); RUBLEVSKIY, A., master-povar (Kiyev); ZIMOGLYAD, D., master-povar (Kiyev); BALASHOVA, Z. (Kiyev); SENDEROV, L. (Kiyev)

Culinary exhibitions in the Ukrainian capital. Obshchestv. pit. no.4:5-8 Ap '58. (MIRA 11:4)

1.Zamestitel' nachal'nika Upravleniya obshchestvennogo pitaniya Ministerstva torgovli USSR (for Yudayeva). 2.Zaveduyushchiy proizvodstvom stolovoy No. 219 (for Rublevskiy). 3. Zavediyushchaya proizvodstvom stolovoy No. 119 (for Zimoglyad). 4. Direktor stolovoy No. 339 for Balashova). 5. Direktor stolovoy No.422 (for Senderov).
(Kiev--Restaurants, lunchrooms, etc.--Exhibitions)

BALASIEWICZ, Dionizy, mgr.

Significance of the Poznan International Fair for Poznan.
Przegl techn 85 no.23 pl 7 Je '64

1. Deputy Chairman, Presidium of Peoples' County Council, Poznan.

KEMULA, Wiktor; CHODKOWSKI, Jerzy; BALASIEWICZ, Michal; KORNACKI, Jacek; RAKOWSKA, Ewa; VINCENZ, Alina

Polarographic investigation of some derivatives of ρ-nitroacetophenone, ρ-nitropropiophenone, and 1-ρ-nitrophenyl-1,3-propanediol. Rocz chemii 33 no.6:1485-1493 '59. (EEAI 9:9)

1. Katedra Chemii Nieorganicznej Uniwersytetu, Warszawa. Zaklad Fizykochemicznych Metod Analitycznych Instytutu Chemii Fizycznej Pol Polskiej Akademii Nauk, Warszawa.
(Polarograph and polarography)
(Nitroacetophenone)
(Nitropropiophenone)
(Nitrophenylpropanediol)

PALASIEWICZ, W.

ZAKRZEWSKI, K.; MALEC, J.; PALASIEWICZ, W.

Phosphorus turnover in leukocytes in vitro. Acta physiol. polon. 8 no.3:577-578 1957.

1. Z Zakladu Biochemii Klinicznej Instytutu Hematologii W Warszawie Kierownik: dp. doc. dr K. Zakrzewski.

(PHOSPHORUS, in blood,
leukocytes, turnover in vitro (Pol))
(LEUKOCYTES, metabolism,
phosphorus turnover in vitro (Pol))

BALASIEWICZ, Wanda; PAWELSKI, Slawomir; WOLOSEWICZ, Halina; ZAKRZEWSKI, Kazimierz

Distribution of radioactive phosphorus in the erythrocytes and bone marrow cells during the course of therapy of polycythemia vera. I. Intra-oral administration of P32. Polski tygod. lek. 16 no.14: 510-514 3 Ap '61.

1. Z Zakladu Biochemii; kierownik: doc. dr med. K. Zakrzewski i z Oddzialu Hematologicznego; kierownik: dr med. S. Pawelski - Instytutu Hematologii; dyrektor: doc. dr med. A. Trojanowski.

(POLYCYTHEMIA VERA radiother)
(PHOSPHORUS radioactive)
(ERYTHROCYTES chem)
(BONE MARROW chem)

BALASIEWICZ, Wanda; GWIAZDOWSKA, Barbara

Sc-46 turnover and the examination of critical organs in connection with it. Nowotwory 12 no.4:349-355 '62.

1. Z Zakladu Izotopowego Instytutu Onkologii w Warszawie Kierownik: prof. dr med. W. Jasinski i z Zakladu Fizyki Kierownik: mgr. ins. J. Malesa Dyrektor: prof. dr med. W. Jasinski.
(SCANCIUM) (RADIOMETRY)

[illegible]YMANT[illegible]KA, Janus[illegible]; T[illegible], [illegible]; BA[illegible], [illegible]

[illegible]udies on [illegible] metab[illegible]. [illegible] med. Wewn[illegible]. 3[illegible] no.6: 739-742 '64

1. 3 Instytutu [illegible] w [illegible] (Kierownik: prof. dr. [illegible]. Jasinsk[illegible]).

Balasiński, W.; and Mrówka, S. On algorithms of arithmetical operations. Bull. Acad. Polon. Sci. Cl. III. 5 (1957), 803–804, LXVIII. (Russian summary)

The expansion of any number ξ which is a result of arithmetical operations with numbers α, β, etc., in terms of powers of $-g$, where g is a positive integer, $\xi=\sum_{i=N}^{\infty} a_i(-g)^{-i}$ (N positive or negative integer) can be computed by making use of the inequalities: if N is odd, $(a_N\neq 0)$ $a_N/(-g)^N+1/[(-g)^N(g+1)]\leq\xi\leq a_N/(-g)^N+1/[(-g)^{N-1}(g+1)]$ and if N is even $a_N/(-g)^N+1/[(-g)^{N-1}(g+1)]\leq\xi\leq a_N/(-g)^N+1/[(-g)^N(g+1)]$. By substituting the original number α, β, etc., into these inequalities, one can find a_N. By repeating the procedure with $\xi_1=\xi-a_N/(-g)^N$, one then finds the next coefficient, etc.. As an application, a division algorithm is worked out for $g=2$ requiring only additions, subtractions and shifting by one position. {Reviewers note: If β and α are both positive or both negative, then the inequalities $r^{(i+1)}\leq 4r_i$ given in the article should be turned around.}

U. Hochstrasser (Lawrence, Kans.).

P/021/61/000/008/001/002
D250/D302

AUTHOR: Balasiński, W., Master Engineer

TITLE: Electronic digital computers

PERIODICAL: Przegląd elektrotechniczny, no. 8, 1961, p 319-323

TEXT: Three laboratory-type electronic computers are presently operative in Poland. The "XYZ" computer (about 800 operations/sec) at the Zakład aparatów matematycznych PAN (Computer Department of the Polish Academy of Sciences), the electronic digital computer "EMC" (about 100 operations/sec) at the Zakład konstrukcji telekomunikacyjnych i radiofonii "ZKTR" (Telecommunications and Radiophony Designing Department) of the Politechnika Warszawska (Warsaw Polytechnik Institute), and the "EMAL 2" computer at the Instytut badań jądrowych (Nuclear Research Institute). Apart from these three computers, the "UMC 1" (a twin of the "EMC"), the prototype of a mass-production model, began operation in May 1961. The "ZAM 2" computer, a relative of the XYZ, will become

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operative in the near future. Still during 1961, Poland will import a Soviet "Ural 2" computer for the Centralny ośrodek obliczeniowy PAN (Main Calculation Center of the Polish Academy of Sciences). It belongs to the category of fast computers for mathematical calculation. Technical data: up to 12,500 additions, up to 2,000 multiplications and up to 1,200 divisions per second on 12 digit numbers. The ferrite storage memory has a capacity of 2,000 digits, the drums 8,000 each, the magnetic tape 100,000 words on a 250 meters disc, printing speed - 20 digits per second. Research on the construction and application of Polish digital computers for data processing is in progress. It is intended to build electronic systems of computers in Poland while exterior equipment will be imported. By 1965 a large digital computer "ZAM 3" comparable to the British "Orion", and "AMC" business machines will be built at the Warsaw Polytechnic Institute. Upon completion of prototypes, the "Elwro" Plant in Wroclaw will start production of the computers. The rest of the article is an elementary outline of world trends in computer design. There are three figures.

ASSOCIATION: Politechnika Warszawska, Warszawa (Warsaw, Polytechnic Institute, Warsaw)

BALASIU, C.,; BRENNER, A.,; CALIMAN, N.,; CRISTIAN, A.,; CSUTAK,L,; HUTTMAN, A.,; SECHEMANU, I.V.

Study of rheumatic diseases in a factory of refractory products. Probl. reumat., Bucur. Vol. II.:103-115 1954.

(RHEUMATISM
in workers in a factory of refractory products)
(OCCUPATIONAL DISEASES
of workers making refractory products)

RUMANIA

TOMESCU, V., Lect, Dr, BALASIU, P., Dr, MUNTEANU, Ruxandra, Dr, BARBONTA, P., Veterinarian, and MANOLESCU, Alexandrina, of the Faculty of Veterinary Medicine (Facultatea de Medicina Veterinara) Timisoara.

"On Diseases Transmissible Through Water and Notes on the Sanitation of Water Sources Intended for Animals in Several Units in Banat and Crisana Regiunes."

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 16, No 4, Apr 66, pp 38-46.

Abstract: After stressing the importance of potable water sources to prevent the transmission of an number of diseases and reviewing the Rumanian standards for water purification, the authors briefly describe the types of installations used for water purification in the state farms of Banat and Crisana Regiune. Some specific installations, either operating or in the planning stage, are also described.

Includes 3 figures and 12 references, of which 3 German, one French and 8 Rumanian.

BALASKO, Antal

General method for calculating the penetration coefficient of electron tubes with cylindrical rod electrodes. Periodica polytechn electr 8 no 4:379-394 '64.

1. United Incandescent Lamp and Electricity Company, Budapest, IV., Vaci ut 77, and Chair of Electron Tubes and Semiconductors of Budapest Technical University. Submitted January 4, 1964.

BALASKO, Antal

Generalized method for calculating the penetration factor in electron tubes. Hir techn 16 no.1:16-24 Ja '65.

1. United Incandescent Lamp and Electricity Company, Budapest.

BALASKOV, V. V.

"A Direct Method of Calculating the Nulceon-Nucleon Interaction Hamiltonian on the Basis of Experimental Values for the Levels of Light Nuclei," by Yu. M. Shirokov, V. V. Balaskov, and K. A. Tumanov, Moscow State University, Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol 32, No 1, Jan 57, pp 167-168

This work proposes a method of obtaining information concerning nucleon-nucleon interactions in nuclei. The method is based on the assumptions that forces in the nuclei are paired and that the average speed of a nucleon in the nucleus is of the order of 0.1 c or less. An expression for the interaction Hamiltonian is obtained. (U)

54M.1391

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Periodicity in fluctuations in brightness of variable γ Cephei. Izv.Astron.obser. 2 no.1:59-95 '49. (MLRA 7:9)
(Stars, Variable)

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Observations of protuberances. Izv.Astron.obser. 2 no.2:26-32 '52. (MLRA 6:8)
(Sun--Prominences)

COUNTRY : RUMANIA H
CATEGORY : CULTIVATED PLANTS. Fodder Grasses and Roots.

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO. 4, 1959, No. 15683

AUTHOR : Apostol, Th.; Balan, C.; Balasciu, A.; Beranghi, I.; Buda, L.; Popa, Th.
INST. :
TITLE : Methods of Growing Perennial Grasses for Seeds.

ORIG. PUB. : An. Inst. cercetari agron., 1957, 24, No.5, 179-194

ABSTRACT : In the agricultural research institute of Rumania during 1950 to 1954 at six experimental stations, the highest seed crops of dog grass (DG), meadow fescue (MF), timothy grass (TG), pasture ryegrass (PR) and tall oatgrass (TO) were obtained in broad-row sowing (45 to 60 cm between rows) with seeding quota of 15 to 20 kg/h for DG, MF and PR, 7 to 8 kg/h for TG and 7.5 to 9.5 kg/h for TO. In a number of regions

CARD: 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103