KAVERZNEVA, Ye.D

ZELINSKIY, Nikolay Dmitriyevich, 1861-1953 [deceased] KAZANSKIY, B.A., akademik; BALANDIN, A.A., akademik; KOCHESHKOV, K.A.; SHUYKIN, N.I.; KAVERZNEVA, Ye.D, doktor khimicheskikh nauk; LEVINA, R.Ya., doktor khimicheskikh nauk; PLATE, A.F., doktor khimicheskikh nauk; RUBINSHTEYN, A.M., doktor khimicheskikh nauk; YUR'YEV, Yu.K., doktor khimicheskikh nauk; KISELEVA, A.A., tekhnicheskiy redaktor.

[Collected works] Sobranie trudov, Moskva, Izd-vo Akademii nauk SSSR. Vol. 2. 1955. 743 p. (MLRA 8:11)

1. Chlen-korrespondent AN SSSR(for Kocheshkov and Shuykin)
(Hydrocarbons) (Petroleum)

KAVERZNEVA, Ye.D.; KIST', S.A.

Effect of the chemical composition of cellulose oxidized by nitrogen dioxide on its chemical properties. Soob.o nauch.rab.chl.VKHO no.3:13-17 '55. (MIRA 10:10)
(Cellulose) (Nitrogen oxides)

KAVERZNEVA, Ye. D.

USSR/Chemical Technology - Chemical Products and Their Application. General Questions, I-1

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62053

Author: Nazarov, I. N., Kaverzneva, Ye. D.

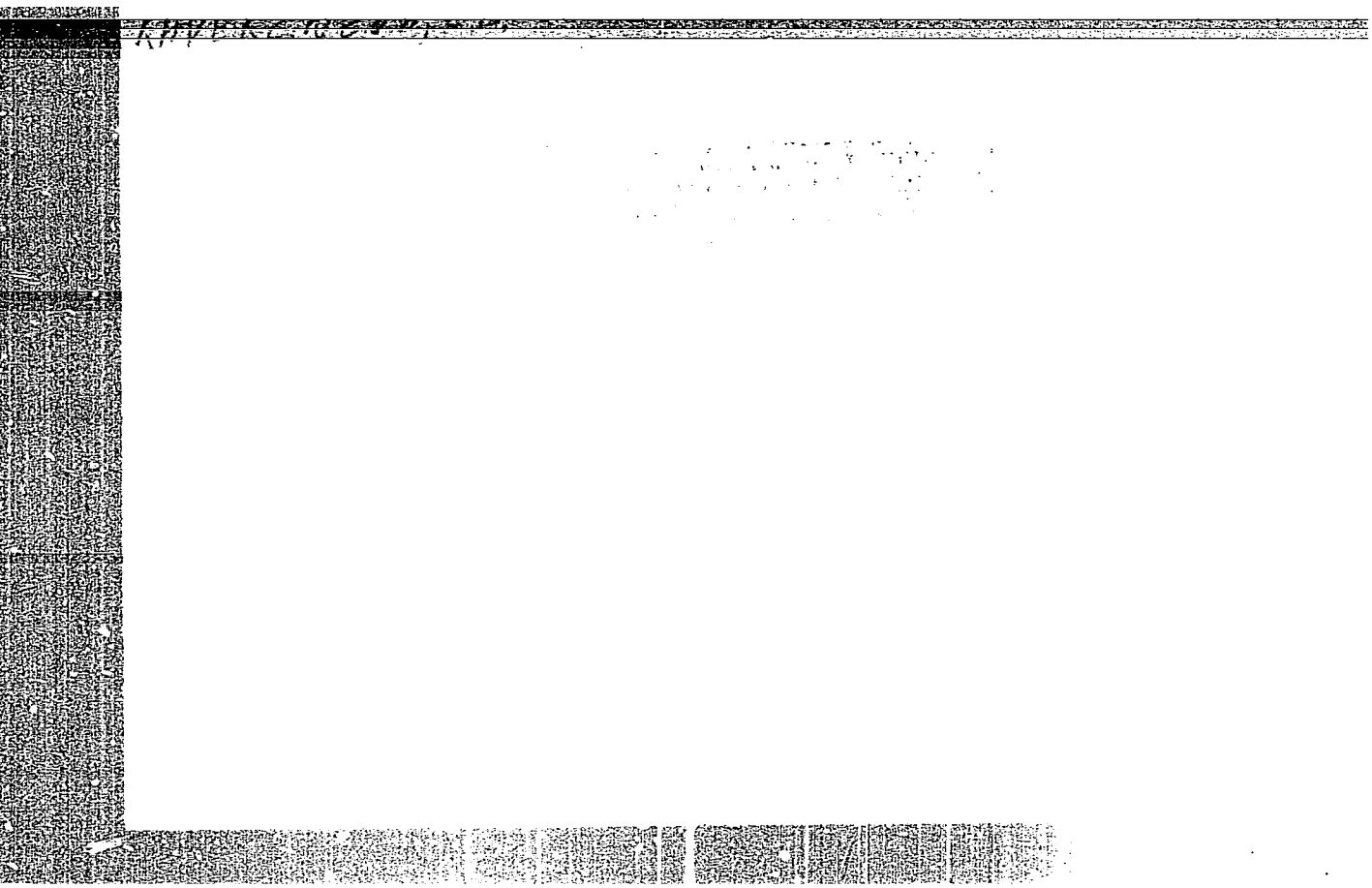
Institution: None

Title: Twentieth-Eighth International Congress of Industrial Chemistry

Original Periodical: Khim. nauka i prom-st', 1956, 1, No 1, 101-103

Abstract: Review of papers presented at the congress in Madrid and particularly of papers concerned with investigations and utilization of natural and agricultural resources of Spain. Also is presented a review of the state of Spanish chemical industry.

Card 1/1



KAVERZNEVA, Ye. D.

USSR/Chemistry of High Molecular Substances. F

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 27081.

Author : Kaverzneva, Ye.D.; Ivanov, V.I., Saleva, A.S.; Kist', S.A.

Inst : Academy of Sciences of USSR. Inst Org. Chem. N.D. Zelinskiy

Title : Chemical Conversions of Cellulose Macromolecule under Influence of Oxidizers. Report 9. Chemical Conversions at Oxidation of Cellulose with Nitrogen Peroxide. Report 10. Oxidation of Low Molecular Compounds Containing Hydroxyls with Nitrogen Peroxide. Report 11. To The Question of Chemical Instability of Celluloses Oxidized with Nitrogen Peroxide.

Orig Pub: Izv. AN SSSR, Otd. khim. n., 1956, No. 3, 358 - 367; No. 5, 604 - 614.

Abstract: 9. The chemical conversion of cellulose (I)

Card 1/8

[illegible] COOH, common CO, CHO, α-oxyketone groups, groupations of carbonate esters and of N-nitroester groups. It was shown that the action of NO_2 on I was not a specific reaction of oxidation of initial OH-s, but was always accompanied with [illegible] oxidation of secondary OH-s, because the present COOH groups had been formed not only at the C_6-atoms of carbon, but also in other places of the pyran cycle with its

Card 2/8

USSR/Chemistry of High Molecular Substances. F

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 27081.

oxidation of isopropyl alcohol (II), ethyleneglycol, 1,2-propanediol (III) and methylglucoside (IV) in CCl_4 at about 20° was carried out. After the oxidation, the solution in CCl_4 was treated with water and both the layers were investigated separately. The aqueous layer contained the oxidation products of the used alcohols, and their nitroesters were detected in CCl_4. Nitroester derivatives were found in the aqueous layer at the experiments with IV. Acetone and NO_2 are forming at the oxidation of II, and oxyacetone and pyroracemic acids were separated at the oxidation of III, but the detection of lactic acid did not succeed, which indicated a greater speed of oxidation of the secondary OH groups as compared

Card 4/8

USSR/Chemistry of High Molecular Substances. F

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 27081.

with the initial ones. At the oxidation of IV, some interaction of the secondary OH groups took place together with the basic trend of oxidation of the initial OH groups. After the separation of the solution in CCl_4 from the aqueous solution and treatment with alkali at about 20°, the formation of NO_3^- with a simultaneous appearance of new quantities of carbonyl derivatives of the used alcohols was revealed. These facts confirm that the mechanism of alcohol oxidation with NO_2 is working through the stage of formation of nitroesters.

11. The causes of the chemical instability of oxycelluloses (V), prepared by the action of NO_2 on cotton cellulose, were studied. V-s dissociate

Card 5/8

KAVERZNEVA, Ye.D.; IVANOV, V.I.; SALOVA, A.S.

Chemical conversions of cellulose macromolecules caused by oxicisers. Part 10. Oxidation of low molecular weight compounds containing a hydroxyl group by nitrogen dioxide. Izv.AN SSSR,Otd. khim.nauk no.4:482-490 Ap '56. (MLRA 9:8)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo Akademii nauk SSSR.
(Nitrogen oxides) (Carbohydrates) (Oxidation)

KAVERZNEVA, Ye.D.; KIST', S.A.

Chemical conversions of the cellulose macromolecule by oxidizers. Part 11. Causes of the chemical instability of cellulose oxidized by nitrogen dioxide. Izv.AN SSSR.Otd.khim.nauk no.5:604-614 My '56. (MIRA 9:9)

1.Institut organicheskoy khimii imeni N.D.Zelinskogo Akademii nauk SSSR.
(Cellulose) (Oxidation)

KAVERZNEVA, Ye.D., doktor khimicheskikh nauk; LEPESHKOV, I.N., doktor khimicheskikh nauk.

At the 28th Intenational Congress on Industrial Chemistry in Madrid. Vest.AN SSSR 26 no.5:64-68 My '56. (MLRA 9:8)
(Madrid--Chemistry, Technical--Congresses)

KAVERZNEVA, YE. D.

Category: USSR/General Biology. General Physiology, Biochemistry and Biophysics. B-1

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21426

Author : Kaverzneva, E.D.
Inst : not given
Title : Unsolved problems of protein structure.

Orig Pub: Vestn. AN SSSR, 1956, 26, No 8, 15-21

Abstract: A brief review of the basic problems in protein chemistry and its contemporary achievements. The importance of protein to theoretical and applied biology, as well as to industry, is described. Successes are noted in exact quantitative determination of amino acids and in establishing the terminal bonds and the sequence of their positions in polypeptide rings. The interaction, still hardly known, between polypeptide rings is pointed out, which leads to the formation of disulfide bridges, sulfide links, diketopiperazine rings and others. A concept of the manner of

Card : 1/3 -1-

AUTHORS: Kaverzneva, Ye. D.; Ivanov, V. I.; Krylova, G. A. 62-1-17/21

TITLE: Chemical Conversions of Cellulose during Activated Oxidation with Hypochlorite (Khimicheskiye prevrashcheniya tsellyulozy pri aktivirovannom okislenii gipokhloritom)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, 1957, No. 1, pp. 120-122 (U.S.S.R.)

ABSTRACT: Investigation was conducted to determine the effect of an activated oxidation process on the chemical conversions of cellulose in the presence of hypochlorite. Using urea in the role of activator, it was found that the chemical changes in the cellulose macromolecule during activated oxidation with hypochlorite have exactly the same character as during oxidation without activator. Activated oxidation is accompanied by a smaller drop in the degree of polymerization than non-activated oxidation. It was established that activators only

Card 1/2

KAVERZNEVA, Ye. D.

KUZNETSOVA, Z.I.; KAVERZNEVA, Ye.D.; IVANOV, V.I.

Influence of the ketone group on the stability of glucosidic linkage. Izv. AN SSSR. Otd. khim. nauk no.5:655-656 My '57. (MLRA 10:8)

1. Institut organicheskoy khimii im. N.D. Zelinskogo Akademii nauk SSSR.

(Ketones) (Chemical structure)

KAVERZNEVA, Ye. D.

with F. V. Shmakova "Extraction of carbohydrate bearing peptide from egg albumin and the determination of its amino-acid content"

report presented at the 10th All-Union Conf. on Highly Molecular Compounds, Biologically Active Polymer Compounds, Moscow, 11-13 June 1958. (Vest. Ak Nauk SSSR, 1958, No. 9, pp. 111-113)

KAVERZNEVA, K. and SHMAKOVA, F., (Moscow)
~~(Katerine)~~

"Glycopeptide in Tryptischen Hydrolysaten von Ovalbumin,"

Inst. of Organic Chem, Acad. Sci. USSR Moscow (im N. D. Zelinskiy)

paper presented at the 4th Intl. Congress of Biochemistry, Vienna, 1-6 Sep 58.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210018-9"

AUTHORS: Kaverzneva, Ye.D., Shmakova, F. V. SOV/62-58-6-27/37

TITLE: The Separation of Glycopeptides From Enzymatic Hydrolysates of Egg-Albumin (Vydeleniye uglevodsoderzhashchikh peptidov iz fermentativnykh gidrolizatov yaichnogo al'bumina)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1958, Nr 6, pp. 785 - 786 (USSR)

ABSTRACT: The authors undertook to carry out a partial hydrolysis of egg-albumin (without splitting the carbohydrate complex) and to separate and investigate the carbohydrate-containing fragments of the molecule (in this case the peptides). Result: Among the products of the fermentative splitting of egg-albumin carbohydrate-containing peptides were found. These peptides permanentl contained the following 5 amino acids (in basic peptides there were 6): arginine, glutamic acid, alanine, proline, and valine; basic peptides, in addition, contained lysine. There are 1 table and 1 reference.

Card 1/2

KAVERZNEVA, Ye.D.; KALIS, V.E.

Studying the stability of some N-glycosides, of amino acids and peptides in aqueous solutions [with summary in English]. Biokhimiia 23 no.1:92-100 Ja-F '58. (MIRA 11:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR, Moskva.
(GLYCOSIDES,
N-glycosides, stability in aqueous solutions (Rus)
(AMINO ACIDS,
stability in aqueous solutions (Rus)
(PEPTIDES,
same)

KAVERZNEVA, Ye.D., SHMAKOVA, F.V.

Glycopeptides in pepsin hydrolysates of egg. albumin [with summary in English]. Biokhimiia 23 no.5:793-799 S-O '58 (MIRA 11:11)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR, Moskva.

(EGG WHITE,
ovalbumin, glycopeptides in pepsin hydrolysates (Rus))
(PEPTIDES,
glycopeptides in pepsin hydrolysates of ovalbumin (Rus))

AUTHORS: Kaverzneva, Ye. L., Doctor of Chemical Sciences, Khurgin, Yu. I. SOV/30-58-9-42/51

TITLE: Biologically Active Polymer Compounds (Biologicheski aktivnyye polimery) All-Union Conference on Highly Molecular Compounds (Vsesoyuznaya konferentsiya po vysokomolekulyarnym soyedineniyam).

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 9. pp. 111 - 113 (USSR)

ABSTRACT: The X All Union Conference took place in Moscow from June 11th to 13th. About 400 representatives of scientific institutions and colleges took part. In his opening-speech V.A.Kargin stressed the fact that, as there are structural analogies between natural and synthetic polymer compounds the task is set to bring about a controlled synthesis of models of biological objects. Further reports were delivered by B.N.Tarusov, A.G.Pasynskiy on some peculiarities of biological textures.
G.M.Frank on the submicroscopic structure of some cell textures and muscle fibrils.
K.G.Ioffe gave particulars on the location of 18 amino-acids

Card 1/4

in the tyrosine bearing peptide.
M.I.Plekhan on some peculiarities concerning peptides.
Ye.D.Kaverzneva, F.V.Shmakova on the extraction of carbohydrate bearing peptide from egg albumin and the determination of its amino-acid content.
S.Ye.Bresler, S.Ya.Frenkel' consider the configuration of the individual globular protein to be metastable.
V.A.Belitser recommends to distinguish denaturation from some other slight modifications of structure.
V.I.Kasatochkin, R.A.Dulitskaya examined kinetics and thermodynamics of renaturation under pressure.
M.B.Kalmakarova on the modification of structure of complex proteins.
D.N.Shigorin, N.V.Mikhaylov examined the typical bands in infrared adsorption spectra.
N.S.Andreyeva recommended a new classification of the kinds of polypeptide chains according to structure.
M.I.Millionova, N.S.Andreyeva constructed a model of polymer glycyl-L-proline.

Biologically Active Polymer-Compounds. All Union Conference on Highly Molecular Compounds. SOV/30-58-9-42/51

A.L.Zaydes on characteristics of various collagens.
Yu.A.Vladimirov, S.V.Konev on the mechanism of energy migration of light quanta in protein.
M.S.Volkova, A.G.Pasynskiy made use of the radiation method for molecular weight determination of protein.
G.V.Samsonov, R.B.Ponomareva, L.V.Dmitrenko gave particulars on the chromatographic purity determination of protein.
A.N.Belozerskiy spoke about the composition of nucleinic acids secreted by micro-organisms and plants.
V.S.Diskina, V.S.Tongur, D.M.Spitkovskiy spoke about the production of desoxy nucleoproteids by means of serum albumin and α-Chymotrypsin.
S.Ye.Bresler, Kh.M.Rubina on the part played by ribonucleic acid in the fermentative biosynthesis of protein.
M.A. Prokof'yev and Z.A. Shabarova mention experimentally obtained data on the synthesis of derivatives of amino acids with nucleotides and nucleosides.

Card 3/4

Biologically Active Polymer Compounds. All Union Conference on Highly Molecular Compounds. SOV/30-58-9-42/51

A.S. Spirin and L.P. Gavrilova reported on the results of investigations of ribonucleic acid of the tobacco mosaic virus. P.S. Vasil'yev spoke about the protein structures which are necessary for blood-transfusion. M.F. Shostakovskiy about how polyvinylpyrrolydone is obtained and how it is used as blood substitute. M.G. Brazhnikova dealt with the investigation of a large group of antibiotics of polypeptide type. The members of the conference stressed the necessity of the establishment of a special institute for protein research. It was recommended to promote the training of teams in the corresponding fields of science.

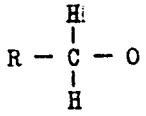
Card 4/4

[illegible] of small oxygen quantities was investigated in the present paper. The oxygen should be gradually introduced to maintain a low level of the nitrogen content in the oxycellulose. Even a temporary oxygen excess should also be avoided (Table 1). The oxidation rate depends on temperature, the oxygen concentration in the gases, on [illegible] of the cellulose. The principal factor, however, is the ratio of $NO/NO + NO_2$ in the oxidizing gases. It was found that under given conditions this ratio should be 8-10% $NO/NO + NO_2$ (Table 2). As the NO-content in the gases was fluctuating during the experiment,

Card 1/3

On the Mechanism of Cellulose Oxidation by Means of Nitrogen Oxides

the mean values of NO presented in table 2 do not exactly reflect the experimental conditions. For this reason, the time of the presence of cellulose under optimum conditions was calculated according to the duration of the individual experiments (Fig 1). A certain dependence of the oxidation intensity on the time of presence in the gas mixture was found. For the explanation of the transformations of cellulose observed during the oxidation the scheme recently suggested (Ref 5) is suited. The participation of N_2O_3 in the reaction must there be expressed by establishing a theoretically well confirmed hypothesis that the stabilization of the R-CH_2O radicals takes place under the influence of both N_2O_4 and N_2O_3(NO). If the stabilization rate of the radical



is higher under the effect of N_2O_3 than under the effect of N_2O_4, N_2O_3 accelerates the oxidation. Such an acceleration was

observed at an NO-content of 7-10% of the total amount of the oxides. According to reference 5 only the N_2O_4 adsorbed on the surface of the cellulose reacts with the latter. By gradual formation of N_2O_3 the initial concentration of N_2O_4 is reduced and it is thus less adsorbed on the fiber. This leads in a certain stage to a retardation of the primary reaction of nitrite formation and to an inhibition of the oxidation process. It could be seen in the experiments performed under given conditions that on an N_2O_4 concentration below 1.5 g/l the oxidation proceeded evidently slower. There are 2 figures, 2 tables, and 9 references, 5 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED: May 23, 1957

KALIS, V.B.; KAVERZNEVA, Ye.D.

Stability of some peptide N-glucosides and proline N-glucoside in aqueous solutions. Biokhimiia 24 no.6:1026-1032 N-D '59. (MIRA 13:5)

1. Institute of Organic Chemistry, Academy of Sciences of the U.S.S.R., Moscow.
(PEPTIDES chem.)
(PROLINE chem.)

ZELINSKIY, Nikolay Dmitriyevich, akademik [1861-1953]; KAVERZNEVA, Ye.D., doktor khim.nauk, otv.red.; PLATE, A.F., doktor khim.nauk, red.; RUBINSHTEYN, A.M., doktor khim.nauk, red.; ZYDUS, Ya.T., doktor khim.nauk, red.; BRUSOV, I.I., red.izd-va; TIKHOMIROVA, S.G., tekhn.red.

[Collected works] Sobranie trudov. Moskva, Izd-vo Akad.nauk SSSR. Vol.4. 1960. 598 p. [Author and subject index] Imennoi i predmetnyi ukazateli. 26 p. (MIRA 14:2)
(Zelinskii, Nikolai Dmitrievich, 1861-1953)
(Chemistry, Organic)

KALIS,V. (Riga); KAVERZNEVA, Ye. (Riga)

Constants of equilibrium of reversible reaction of hydrolysis of N-glucosides of amino acids and peptides. Vestis Latv ak no.1:107-110 '60. (EEAI 9:11)

1. Akademiya nauk Latviyskoy SSR, Institut organicheskogo sinteza.
(Hydrolysis) (Glycosides) (Amino acids) (Peptides)

KAVERZNEVA, Yekaterina Dmitriyevna; FAYNBOYM, I.B., red.; RAKITIN, I.G., tekhn. red.

[Mystery of protein structure] Taina stroeniia belkov. Moskva, Izd-vo "Znanie," 1962. 31 p. (Novoe v zhizni, nauke, tekhnike. IX Seriia: Fizika i khimiia, no.9) (MIRA 15:6)
(Proteins)

KAVERZNEVA, YE. D., TSEE DE-FAN, and BOGDANOV, V. P. (USSR)

"A Study on the Carbohydrate-Peptide Fragment from Ovalbumin."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

KAVERZNEVA, Ye.D.; KRAVCHENKO, N.A.; KLEOPINA, G.V.

Nature of the enzymatic activity of lysozyme. Izv.AN SSSR Otd. khim.nauk no.4:729 Ap '61. (MIRA 14:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Lysozyme)

KAVERZNEVA, Ye.D.; BOGDANOV, V.P.

Isolating from egg albumin a fragment consisting of a polysaccharide and aspartic acid. Biokhimiia 26 no. 1:105-109 Ja-F '61. (MIRA 14:2)

1. Institute of Organic Chemistry, Academy of Sciences of the U.S.S.R. Moscow.
(ALBUMIN) (POLYSACCHARIDES) (ASPARTIC ACID)

KAVERZNEVA, Ye.D.; TSI DE-FAN [Ch'i Tieh-fang]

Glucopeptides liberated by proteases from egg albumin. Biokhimiia 26 no.3:420-425 My-Je '61. (MIRA 14:6)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo Akademii nauk SSSR, Moskva.
(PROTEASE) (ALBUMIN) (PEPTIDES)

KAVERZNEVA, Ye.D.; TSI DE-FAN [Ch'i Tieh-fang]

Isolation and characteristics of a polysaccharide complex from egg albumin. Biokhimiia 26 no.5:782-786 S-O '61. (MIRA 14:12)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR, Moskva.
(POLYSACCHARIDES) (ALBUMIN)

KAVERZNEVA, Ye.D.

Protein synthesis. Priroda 50 no.9:41-47 S '61. (MIRA 14:8)

1. Institut organicheskoy khimii AN SSSR (Moskva).
(Proteins)
(Chemistry, Organic--Synthesis)

KRAVCHENKO, N.A.; KLEOPINA, G.V.; KAVERZNEVA, Ye.D.

Study of the catalytically active centers of lysozyme. Dokl. AN SSSR 144 no.1:118-121 My '62. (MIRA 15:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. Predstavleno akademikom B.A.Kazanskim.
(Lysozyme) (Catalysis)

KAVERZNEVA, Ye.D.; BOGDANOV, V.P.

Improved method for separating the aspartic-polysaccharide fragment from ovalbumin and some of its characteristics. Biokhimiia 27 no.2:273-278 Mr-Ap '62. (MIRA 15:8)

1. Institut organicheskoy khimii AN SSSR, Moskva.
(ALBUMIN) (POLYSACCHARIDES) (ASPARTIC ACID)

KAVERZNEVA, Ye. D., doktor khim. nauk

European Symposium on Peptides. Vest. AN SSSR 33 no.1:82-83 Ja '63. (MIRA 16:1)

(Peptides)

KAVERZNEVA, Ye. D.; KONOVALOVA, M. I.

Synthesis of N-+(β asparagile)-D-glucosamine, O-β-methyl-N-(α-methyl-β-L-asparagile)-D-glucosaminide and their derivatives. Izv. AN SSSR. Otd. khim. nauk no.1:124-128 '63. (MIRA 16:1)

1. Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR.

(Glucosamine)

KAVERZNEVA, Ye. D.; BOGDANOV, V. P.; ANDREYEVA, A. P.; SHMAKOVA, F. V.

"The chemical bond of the polysaccharide-prosthetic group in ovalbumin, and the situation of this group in the protein molecule."

report submitted for Natl Mtg, American Chemical Society, Philadelphia, 5-10 Apr 64.

Inst of Organic Chemistry, Moscow.

KAVERZNEVA, Yekaterina Dmitriyevna; ANDREYEVA, A. P.; BOGDANOV, V. P.

"Some properties and the structure of a glucosamine-aspartic fragment from ovalbumin."

Report to be submitted for the 3rd Intl. Symposium on the Chemistry of Natural Products (IUPAC), Kyoto, Japan, 12-18 April 1964.

KAVERZNEVA, Yekaterina Dmitriyevna,

"Concerning the bond between carbohydrate and albumen in ovalbumin and ovomucoid".

report submitted for the International Symposium on the Chemistry of Carbohydrates, Muenster, West Germany, 13-17 Jul 64

KRAVCHENKO, Nikolay Alekseyevich; KLEOPINA, Galina Vladimirovna; KAVERZNEVA, Ye.D., doktor khim. nauk, otv. red.; SEMENENKO, E.I., red.

[Manual for the chromatographic analysis of amino acids on columns] Rukovodstvo po khromatograficheskomu analizu aminokislot na kolonkakh. Moskva, Nauka, 1964. 69 p. (MIRA 18:1)

KAVERZNEVA, Ye.D., doktor khim. nauk

International symposium on the chemistry of carbohydrates.
Vest. AN SSSR 34 no.10:93-95 O '64.
(MIRA 17:11)

KAVERZNEVA, Ye.D.; GASHKO, G.P. [Hashko, H.P.]

Study of the carbohydrate composition of a fraction of ceruloplasmin. Ukr. biokhim. zhur. 35 no.4:507-513 '63. (MIRA 17:11)

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

DANILOV, S.N., glav. red.; ARBUZOV, A.Ye., red.; VVEDENSKIY, A.A., red.; VENUS-DANILOVA, E.D., red.; ZAKHAROVA, A.I., red.; IOFFE, I.S., red.; KAVERZNEVA, Ye.D., red.; LUTSENKO, I.F., red.; MISHCHENKO, K.P., red.; NEMTSOV, M.S., red.; PETROV, A.A., red.; FREYDLINA, R.Kh., red.; SHEMYAKIN, M.M., red.; SHUKAREV, S.A., red.; YUR'YEV, Yu.K., red.

[Biologically active compounds] Biologicheski aktivnye soedineniia. Moskva, Nauka, 1965. 305 p.
(MIRA 18:7)

KAVERZNEVA, Ye.D.; MAKSIMOVA, G.N.

Fractionation of tuberculoprotein on diethylaminoethyl-cellulose. Biokhimiia 29 no.3:445-451 My-Je '64. (MIRA 18:4)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR, Moskva.

KLEOPINA, G.V.; KRAVCHENKO, N.A.; KAVERZNEVA, Ye.D.

Role of ε-amino groups of lysine in lysozyme. Izv. AN SSSR. Ser. khim. no.5:830-838 '65. (MIRA 18:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

DANILOV, S.N., glav. red.; ZAKHAROVA, A.I., red.; ARBUZOV, A.Ye., red.; VVEDENSKIY, A.A., red.; VENUS-DANILOVA, E.D., red.; IOFFE, I.S., red.; KAVERZNEVA, Ye.D., red.; LUTSENKO, I.F., red.; MISHCHENKO, K.P., red.; NEMTSEV, M.S., red.; PETROV, A.A., red.; FREYDLINA, R.Kh., red.; SHEMYAKIN, M.M., red.; SHCHUKAREV, S.A., red.; YUR'YEV, Yu.K., red.

[Problems of organic synthesis] Problemy organicheskogo sinteza. Moskva, Nauka, 1965. 323 p. (MIRA 18:8)

KRAVCHENKO, N.A.; KLEOPINA, G.V.; KAVERZNEVA, Ye.D.

Study of the reaction of carboxymethylation of lysozyme with iodoacetic acid. Biokhimiia 30 no.1:195-202 Ja-F '65.
(MIRA 18:6)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR, Moskva.

KRAVCHENKO, N.A.; KLEOPINA, G.V.; KAVERZNEVA, Ye.D.

Study of an active center of lysozyme by the carboxymethylation method. Biokhimiia 30 no.4:713-720 Jl-Ag '65. (MIRA 18:8)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR, Moskva.

MAKSIMOV, V.I.; KAVERZNEVA, Ye.D.; KRAVCHENKO, N.A.

Nature of lysozyme action on oligosaccharides, fragments of chitin. Biokhimiia 30 no.5:1007-1014 S-O '65. (MIRA 18:10)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR, Moskva.

KAVERZNEVA, Ye.D.; RASSKAZOV, Yu.A.

Isolation and purification of Streptomyces griseus protease on carboxymethyl cellulose. Biokhimiia 29 no.6:1042-1047 N-D '64. (MIRA 18:12)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR, Moskva. Submitted February 24, 1964.

UNANYAN, M.P.; KONDRAT'YEVA, G.V.; LOCHMELIS, A.Ya.; ZAV'YALOV, S.I.; ZEYFMAN, Yu.V.; GAMBARYAN, N.P.; MINASYAN, R.B.; KNUNYANTS, K.L.; KOCHARYAN, S.T.; ROKHLIN, Ye.M.; KAVERZNEVA, Ye.D.; KORSHAK, V.V.; ROGOZHIN, S.V.; DAVANKOV, V.A.; TSEYTLIN, G.M.; PAVLOV, A.I.; ZAKHARKIN, L.I.; OKHLOBYSTIN, O.Yu.; SEMIN, G.K.; BABUSHKINA, T.A.; BLIEVICH, K.A.

Letters to the editor. Izv. AN SSSR. Ser. khim. no.1:1909-1914 '65. (MIRA 18:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR (for Unanyan, Kondrat'yeva, Lochmelis, Zav'yalov, Kaverzneva). 2. Institut elementoorganicheskikh soyedineniy AN SSSR (for Zeyfman, Gambaryan, Minasyan, Knunyants, Kocharyan, Rokhlin, Korshak, Rogozhin, Davankov, Zakharkin, Okhlobystin, Semin, Babushkina, Bilevich).

KAVERZNEVA, Ye.D.; LAPUK, V.Kh.

Reaction of ovomucoid with hydroxylamine. Biokhimiia 29 no. 1: 138-141 Ja-F '64. (MIRA 18:12)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR, Moskva. Submitted June 8, 1963.

KRAVCHENKO, N.A.; KLEOPINA, G.V.; KAVERZNEVA, Ye.D.

Isolation and desalting of the products of lysozyme modified by iodoacetic acid. Biokhimiia 30 no. 3:534-542 My-Je '65 (MIRA 19:1)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR, Moskva.

KAVERSNEVA, Yu. G.

KAVERSNEVA, Yu. G.

"Adaptation Characteristics of Heather Plants of the Pine Forests of Moscow Oblast." Cand Biol Sci, Moscow Oblast Pedagogical Inst, Min Education RSFSR, Moscow, 1955. (KL, No 11, Mar 55)

SO: Sum No. 670, 29 Sep 55- Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

SOV/81-59-10-35287

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 10, p 274 (USSR)

AUTHORS: Balezin, S.A., Bogatyrev, Ye.V., Kaverziyeva, V.P.

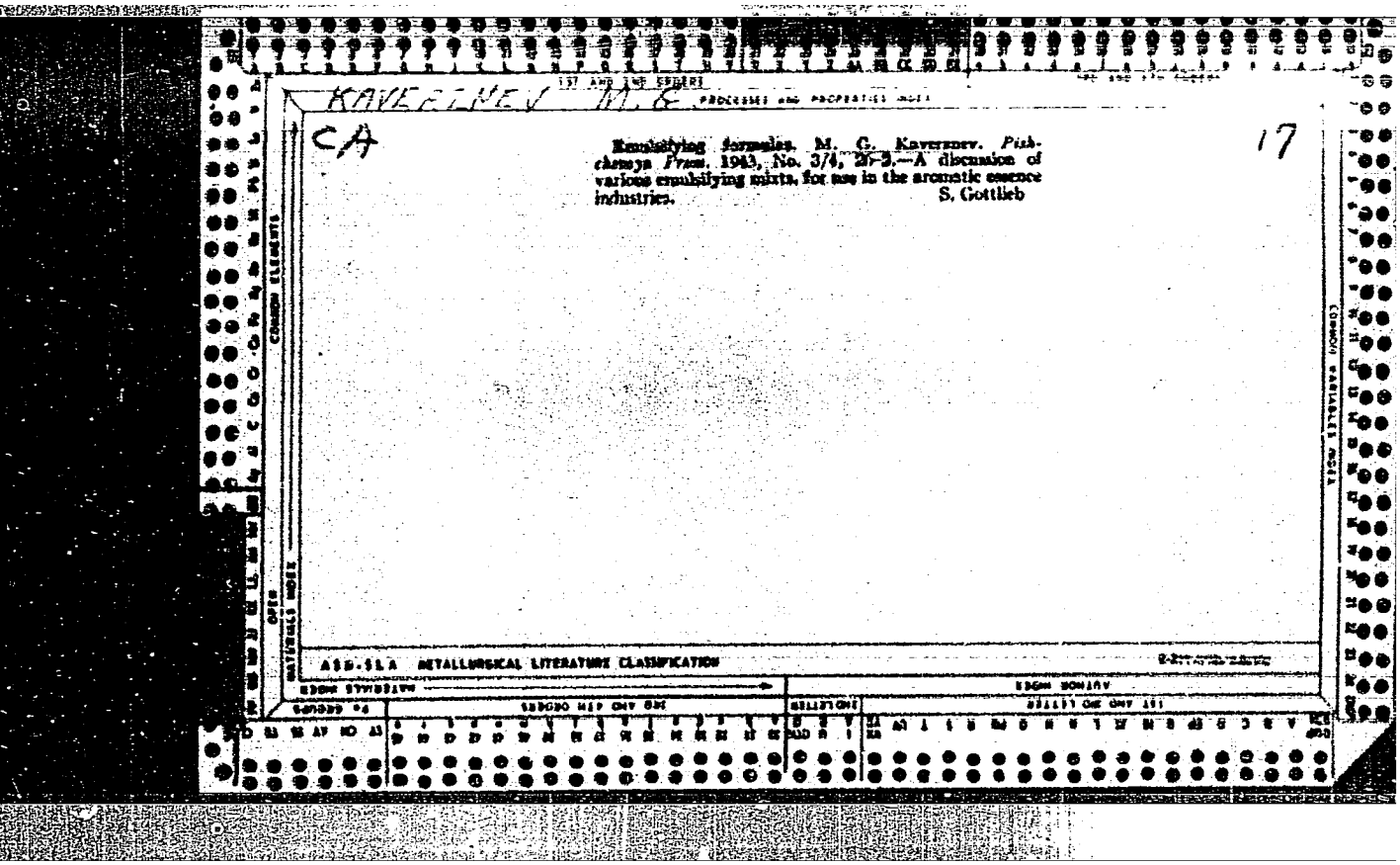
TITLE: Protection of Metal Items Against Atmospheric Corrosion

PERIODICAL: V sb.: Metody issled. ingibitorov korrozii metallov (Vses. sov. nauchno-tekhn. o-v, Nr 7). Moscow, 1958, pp 93-103

ABSTRACT: For protecting metal items (steel, nickel-, tin- and chrome-plated) against corrosion it is proposed to use paper impregnated with a 30% aqueous solution of sodium benzoate (12 g/m^2 of paper). The technology of preparing such a paper is described. The results of the tests of the protective properties of this paper are cited.

M.M.

Card 1/1



KAVERZNEV, M. G.

CA

17

Emulsifying formulas. M. G. Kaverznev. *Pishchevaya Prom.* 1943, No. 3/4, 27-9.—A discussion of various emulsifying mixts. for use in the aromatic essence industries.
S. Gottlieb

KAVERZNEVA, Yu. G.

Aerenchyma in Zizania aquatica L. Bot. zhur. 45 no.4:572-577 Ap '60.
(MIRA 14:5)

1. Kostromskoy sel'skokhozyaystvennyy institut.
(Wild rice) (Plant cells and tissues)

KAVERZNEVA, Yu.G.

Morphogenesis of Ramischia secunda Garcke. Bot. zhur. 44 no.7:1014-1017 Jl '59. (MIRA 12:12)
(Wintergreen) (Plants--Evolution)

L 29381-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6019796 SOURCE CODE: UR/0286/65/000/004/0113/0113

INVENTOR: Prokhorov, A. V.; Shalaxov, I. I.; Fetisov, S. G.; Prokhorov, P. A.; Tutov, I. Ye.; Parshin, A. A.; Kavesh, L. D.; Slutskaya, T. M.; Yunger, S. V.

ORG: none

TITLE: Low-alloy steel / Class 18, No 148088

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 113

TOPIC TAGS: low alloy steel, vanadium, boron, tensile strength, heat resistance

ABSTRACT: A low-alloy steel is proposed which has vanadium and boron added to it to increase strength and heat resistance. Its chemical composition is: 0.13-0.18% C, 1.2-1.6% Mn, 0.5-0.8% Si, 0.3-0.6% Cr, 0.15-0.25% Mo, 0.08-0.12% V and 0.003% (max) B. [JPRS]

SUB CODE: 11, 20 / SUBM DATE: none

Card 1/1

AGRANENKO, V.A., kand.med.nauk; LEVITSKAYA, L.A., kand.med.nauk; KAVESHNIKOVA, B.F.

Heparinization method and blood coagulation control during hemodialysis using the artificial kidney" apparatus. Khirurgiia 38 no.10:51-58 O '62. (MIRA 15:12)

1. Iz pchechnogo tsentra (zav. V.A. Agranenko) TSentral'nogo instituta gematologii i perelivaniya krovi (dir. - dotsent A.Ye. Kiselev) i Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov (dir. - dotsent M.G. Anan'yev).
(ARTIFICIAL KIDNEY) (BLOOD--COAGULATION)
(HEPARIN)

UMNOVA, M.A.; AGRANENKO, V.A.; ICHALOVSKAYA, T.A.; PISKUNOVA, T.M.; KAVESHNIKOVA, B.F.

Sensitization to Duffy factor (F_y^d) as a cause of blood transfusion complication with the development of acute renal failure. Probl. gemat. i perel. krovi 9 no.5:52-55 My '64. (MIRA 18:3)

1. TSentral'nyy ordena Lenina institut gematologii i perelivaniya krovi (dir.- dotsent A.Ye. Kiselev), Moskva.

KAVESHNIKOVA, K.I.

USSR/Human and Animal Physiology - Excretion. V-6

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18288

Author : K.I. Kaveshnikova

Inst : The Leningrad Veterinary Institute.

Title : The Reflex Effects of Milking Stimuli on Renal Function.

Orig Pub : Sb. rabot. Leningr. ve. in-t, 1956, No 18, 121-128

Abstract : No abstract.

Card 1/1

Letting down of milk in cows using milking machines with various parameters. Zhivotnovodstvo 22 no.7:83-87 '60. (MIRA 16:5)

1. Institut fiziologii imeni I.P.Pavlova AN SSSR.
(Milking machines)

KAVESHNIKOVA, K.I.

Lactation reflex in cows during suckling, and manual and machine milking. Fiziol. zhur. 49 no.1:103-110 Ja '63. (MIRA 17:2)

1. From the Laboratory for Physiology of Farm Animals and Research Experimental Station, I.P. Pavlov Institute of Physiology, Leningrad.

KAVESHNIKOVA, K. I.

"The Reflex Effect of the Udder on the Function of the Kidneys."

dissertation defended for the degree of Candidate of Biological Sciences at the Inst. for Physiology im I. P. Pavlov.

Defense of Dissertation (Jan-Jul 1957)
Sect. of Biological Sciences
Vest. AN SSSR, 1957, v. 27, No. 12, pp. 118-120

KAVESHNIKOVA, L.V.

Acute alcoholic paranoids. Prak.sudebnopsikh.ekspert. no.6: 46-51 '62. (MIRA 16:2)
(PARANOIA) (ALCOHOLICS)

ALIYEV, B.M.; MISYUNAS, I.I.; KAVESHNIKOVA, S.V.; SIZOV, P.P.

Work of a group in charge of the dosage control in large focus gamma therapy. Med. rad. 10 no. 12:13-21 D '65 (MIRA 19:1)

1. Rentgeno-radiologicheskiy otdel (zav. - prof. I.I. Tager) Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR i 62-ya Gorodskaya klinicheskaya onkologicheskaya bol'nitsa, Moskva.

KAVETSKAYA, A.A.; TOKAR', L.O.

Unfavorable effect of a large quantity of pollen on the pollination of walnut. Bot. zhur. 48 no.4:580-585 Ap '63. (MIRA 16:5)

1. Ukrainskaya sel'skokhozyaystvennaya akademiya.
(Walnut) (Fertilization of plants)

KAVETSKAYA, A.A. [Kavets'ka, H.O.]

Cytological observations on the accumulation of nutritive substances in rape seeds. Ukr.bot.zhur. 15 no.4:24-31 '58.
(MIRA 12:5)

1. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk, kafedra botaniki.

(Rape (Plant)) (Seeds)

KAVETSKAYA, A.A. [Kavets'ka, H.O.]

Development of the male gametophyte in the English walnut (Juglans regia L.). Ukr. bot. zhur. 21 no.1:52-57 '64.
(MIRA 17:3)

1. Ukrainskaya sel'skokhozyaystvennaya akademiya, Kiyev.

KAVETSKAYA, A. A., Cand Biol Sci -- (diss) "A Cytoembryological Study of Rape." Kiev, 1960, 16 pp, Ministry of Agriculture UkSSR; Ukrainian Academy of Agricultural Sciences) 200 copies, no price given (KL, 21-60, 121)

KAVETSKAYA, A.A., assistent

Embryology of rape and the accumulation of nutrients in seeds. (MIRA 14:3)
Nauch. trudy UASHN 10:111-119 '60.
(Rape(Plant))
(Botany--Embryology)

KAVETSKAYA, A.G.; LAPOVA, A.I., starshiy inzhener-agrometeorolog; SUKNEVA, Ye.V., starshiy inzhener-klimatolog; VLADIMIROVA, N.V., inzh.-agrometeorolog; KURIYEV, M.I., inzh.-agrometeorolog; TSERTSVADZE, Sh.I.; CHIRAKADZE, G.I., dotsent, starshiy nauchnyy sotrudnik; BABAYEV, A.D., otv.red.; USHAKOVA, T.V., red.; VOLKOV, N.V., tekhn.red.

[Concise agroclimatic reference book on the Azerbaijan S.S.R.] Kratkii agroklimaticheskii spravochnik po Azerbaidzhanskoi SSR. Leningrad, Gidrometeor.izd-vo, 1959. 67 p. (MIRA 13:2)

1. Azerbaydzhanskaya S.S.R. Upravleniye gidrometeorologicheskoy sluzhby. 2. Zaveduyushchiy otdelom agrometeorologii Tbilisskogo Nauchno-issledovatel'skogo gidrometeorologicheskogo instituta (for TSertsavadze). 3. Nachal'nik Upravleniya gidrometeorologicheskoy sluzhby Azerbaydzhanskoy SSR (for Babayev).
(Azerbaijan--Crops and climate)

KAVETSKIS, M.A. [Kaveckis, M.], prof. (Kaunas)

Halite and gypsum in moraine deposits. Priroda 52 no.3:75-76 '63. (MIRA 16:4)

(Lithuania—Rock salt) (Lithuania—Gypsum)

KABETSKIS, V. I.

USSR/Nuclear Physics - Beryllium Atoms Oct 51

"Interaction of Configurations in Peryllium-Type Atoms," A. P. Yutsis, V. I. Kabetskis, Leningrad Math Inst, Acad Sci USSR

"Zhur Eksper i Teoret Fiz" Vol XXI, No 10, pp 1139-1145

Computes effect of interaction of configurations on energy of basic configuration of iso-electron atoms Li^-, Be C^{+2}, N^{+3} and O^{+4} and compares results with exptl data. Discusses stability of neg ions of alkali metals (cf. V. A. Fok and M.I. Petrashen, ibed. 6, 1. 1936; Morse, Young and Haurwitz, Phys Rev, 48, 948, 1935). Authors acknowledge advice of Acad V. A. Fok and M. G. Veselov, Submitted 27 Nov 50.

PA 197T97

KAVETSKIS, V. I.

Dissertation: "Some Results of Application of Incomplete Separation of Variables and Multiconfigurative Approximation." Cand Phys-Math Sci, Vil'nyus State U, Vil'nyus, 1953. (Referativnyy Zhurnal--Fizika, Moscow, Aug 54)

SO: SUM 393, 28 Feb 1955

KAVETSKIS, V I

ANALYTICAL ONE-ELECTRON WAVE FUNCTIONS AND MULTI-CONFIGURATIONAL APPROXIMATIONS FOR ATOMS OF THE TYPE OF HELIUM AND BERYLLIUM

V. I. Kavetskis and A. P. Yutsis. Zhur. Eksptl. i Teoret. Fiz. 25, No. 3, 257–63 (1953) (In Russian)

Configurations are formed from products of one-electron functions, and the parameters are determined by a variational calculation. Results for energies are given for two- and three-configurational approximations. The two-configurational approximations in helium are $1s^2 2p^2$ (^1S) and $2s^2 - 1s^1 2p^1$ (^1S), and the three-configurational approximations are $1s^2 2s^2 - 1s^1 2p^1$ and $1s^2 2s^2 - 1s^1 s^1$. The same parameter is used in a given one-electron function in each configuration throughout a given approximate calculation. (Science Abstracts)

KAVETSKIS, V. I.

USSR/Physical Chemistry - Atom, B-3

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 60695

Author: Batarunas, I. V., Kavetskis, V. I., Yutsis, A. P.

Institution: None

Title: Three-Configurational Approximation in the Case of Atoms of the Beryllium Type

Original Periodical: Tr. AN LitSSR, 1955, B3, 9-16; Lithuanian resumé

Abstract: Three-configurational approximations $1s^2 2s^2 - 1s^2 2p^2 - 2s^2 2p^2$ (abbreviated 1-2-3) is applied to primary state of atoms Be, B and C^2. For configuration 1 are utilized self-coordinated wave functions (Referat Zhur - Khimiya, 1956, 9001). For configurations 2 and 3 included in wave function of primary state as small corrections are utilized analytical hydrogen-like wave functions: $P(1s/r) = 2\alpha^{3/2} r \exp(-\alpha r)$; $P(2s|r) = [12\beta^5/(\alpha^2 - \alpha\beta + \beta^2)]^{1/2} \times r\{1 - [(\alpha+\beta)/3]r\} \exp(-\beta r) P_1(2p/r) = (4/3\gamma_1^5)^{1/2} r^2 \times \exp(-\gamma_1 r)$. Utilized are α and β determined at one-configurational approximation

Card 1/3

USSR/Physical Chemistry - Atom, B-3

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 60695

Abstract: for the primary state (Fok, V. A., Petrashen', M. I., Zh. eksperim. i teor. fiziki., 1936, 6, 1). For determination of parameters γ_2 and γ_3 the 3-configurational approximation is divided into 2 2-configurational approximations: 1-2 and 1-3. Values γ_2 were in part determined before (Referat Zhur - Khimiya, 1955, 8971). In the paper are tabulated the values of parameters contained in the above-state one-electron functions and is also tabulated the function P(2p/r) for B . Taking into account the interaction of configurations 1-2-3 the complete 4-electron wave function is represented in the form $[(1 + a_{12})^2(1 + a_{13})^2]^{-1/2}[\psi(2s^2|x_1, x_2) + a_{12}\psi(2p^2|x_1, x_2)][\psi(1s^2|x_3, x_4) + a_{13}\psi(2p^2|x_3, x_4)]$ [illegible] shows that interaction of configuration reduces itself in this case to a utilization of 2-electron wave functions (to an incomplete separation of variables). Values of energy of primary state in the isoelectronic series Be, B^+ and C^{2+} (in atomic units): calculated by the usual method of self-coordinated field of Fok, are -14.577; -24.238; -36.406; calculated at 3-configurational approximation utilizing for configurations 2 and 3 the analytical functions -14.638; -24.314; -36.496; calculated by solving simplified

Card 2/3

Card 3/3

KAVETSKIS, V.

USSR/Atomic and Molecular Physics - Physics of the Atom, D-1

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34260

Author: Batarunas, J., Kaveckis, V., Jucys, A.

Institution: None Acad Sci Lith SSR

Title: Application of the Method of the Incomplete Separation of Variables to the Helium-Type Atoms

Original Periodical: Darbai Fizikos-techn. inst. Lietuvos TSR Mokslu Akad., 1955, 1, 25-33; Lithuanian; Russian resumé

Abstract: The work is devoted to the application of the method of incomplete separation of variables, the theory of which was given by V. A. Fok, M. P. Veselov, and M. I. Petroshen' (Zhur. eksper. i teoret. fiziki, 1940, 10, 723) to the basic configuration of helium-type atoms with the aid of the numerical wave functions of the self-consistent field. The numerical calculations were carried out with the aid of solutions of the equations for the self-consistent field. The results for 6 atoms (ions) of the helium type, starting with H^- and ending with C^{4+}, are given in a table

1 of 1

USSR/Nuclear Physics, Fok's Equation KAVETSKIS, V.I. FD-3337

Card 1/1 Pub. 146 - 9/28

Author : Kibartas, V. V., Kavetskis, V. I., and Yutsis, A. P.

Title : Self-consistent Fok's field in three configurative approximation to the Beryllium atom

Periodical : Zhur. Eksp. i Teor. Fiz., 29, No 5, 623-628, 1955

Abstract : A practical method of self-consistent Fok's field application to multiconfigurative approximation is analyzed. A three configurative approximation $1s^2 2s^2 - 1s^2 2p^2 - 2s^2 2p^2$ is applied to the basic configuration of the beryllium atom. The function of total potential and the radial possibility distribution are presented. Six references.

Institution : Vilno State University, Vilno State Pedagogical Institute

Submitted : July 12, 1954

KAVETSKIS, V. I.

USSR/Atomic and Molecular Physics - Physics of the Atom, I

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34264

Author: Jucys, A. P., Batarunas, J. V., Kaveckis, V. I.

Institution: None

Title: Many-Configuration Approximation in the Case of Atoms of the Lithium Type

Original Periodical: Lietuvos TSR mokslu akad. darbai, 1956, B2, 3-10; Lithuanian resumé

Abstract: Starting with a model of 2-electron state, the authors suggest a method for constructing the wave functions of the entire atom in the many-configuration approximation, in which they dispense with the absolute equality of the radial single-electron wave functions with identical sets of values of the fundamental and orbital quantum numbers. In this method, the 3-configuration approximation with the aid of the analytic hydrogen-like single-electron wave functions is applicable to the 2 lower configurations of 4 atoms of the lithium-type. In the case of the lithium atom, one employs also the wave functions of the Fok self-consistent field.

/ OF /

KAVETSKIS, V.I.

Category : USSR/Atomic and Molecular Physics - Physics of the Atom D-1

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3360

Author : Vizbarayte, Ya, I., Shironas, V.I., Kavetskis, V.I., Yutsis, A.P.
Title : The Fok Self-Consistent Field in the Multi-Condiguration Approximation for the Helium Atom

Orig Pub : Optika i spektroskopiya, 1956, 1, No 3, 277-281

Abstract : Solutions to the Fok equations are given in the two-configuration approximation for the configurations $2p^2$, $2s^2$, $3d^2$, and $3p^2$, considered as accountable configurations with respect to the ground configuration of the helium atom. With the aid of these solutions, the authors determined the values of the correction to the energy of the ground configuration at various multi-configuration approximations. Also given are the values of the correction to the energy, obtained with the aid of the self-consistent Fok field in the six-configuration approximation $1s^2$ -- $2p^2$ -- $2s^2$ -- $3d^2$ -- $3p^2$ -- 2p3p, and were compared with the experimental values of the energy.

Card : 1/1

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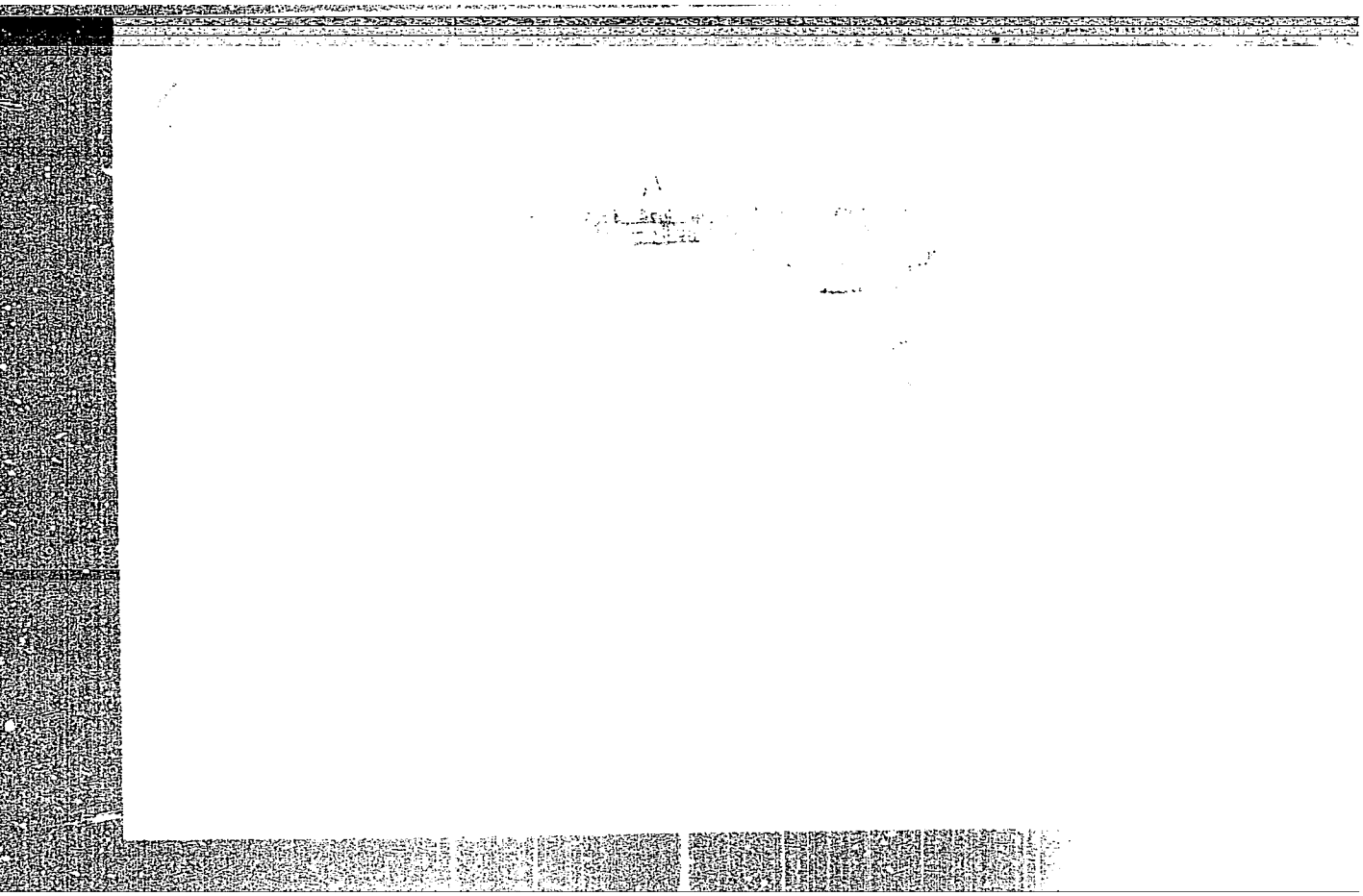


APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210018-9"

Kavetskis, V.I.

USSR/Atomic and Molecular Physics - Physics of the Atom. D-1

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 11358

Author : Yutsis, A.P., Ushpalis, K.K., Kavetskis, V.I., Levinson, I.B.

Inst : Vilnius University, USSR

Title : Total Dipole Strength in the Approximation of Incomplete Separation of Variables for Two-Electron Atoms.

Orig Pub : Optika i spektroskopiya, 1956, No 5, 601-605

Abstract : The strength of the dipole transitions $1s^2$ -- 1s2p, $2s^2$ -- 1s2p, $2p^2$ -- 1s2p are calculated for He, Li^+ and Be^{2+}. For the states nl^2, the authors employ wave functions with incomplete sepraration of variables, including the factor $\mu_1 + \mu_2 r_{12} + \mu_3 (r_1 + r_2)$. The 1s2p state is described

Card 1/2

USSR/Atomic and Molecular Physics - Physics of the Atom. D-1

Abs Jour : Ref Zhur - Fizika, No 5, 1957, 11358

in the approximation of total separation of variables. The parameters of the analytic wave functions are taken from previous works. It is noted that two-electron transitions are possible when using incomplete separation of variables. For the transition $2s^2$ -- 1s2p the authors obtained dipole strengths of 0.4, 0.01 and 0.002 for He, Li^+, and Be^{2+} respectively. For the singlet transitions $2p^2$ -- 1s2p, the use of incomplete separation of variables leads to a very substantial reduction in the dipole strength. As the charge of the nucleus increases, the change becomes less.

Card 2/2

AUTHORS: Yutsis, A. P., Vizbarayte, Ya. I., Kavetskis, V. I., Batarunas, I. V. SOV/48-22-6-6/28

TITLE: The Approximation of the Models of Two-Electron States and the So-Called Anomaly in the Spectra of Carbon, Nitrogen, and Oxygen (Priblizheniye modeli dvukhelektronnykh sostoyaniy i tak nazyvayemaya anomaliya v spektrakh ugleroda, azota i kisloroda)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya fizicheskaya, 1958, Vol. 22, Nr 6, pp. 665-667 (USSR)

ABSTRACT: For quantum-technical calculations of the atom the method of the incomplete separation of variables (Ref 1) and that of multiconfiguration approximation (Ref 2) are employed, which are both difficult from a mathematical point of view. Simplification may be attained by using these methods for two-electron systems. It is therefore assumed in this paper that also other calculations can be carried out on the basis of the two-electron systems by means of approximation methods. The second and more simple method is here given preference.
The chapter entitled: "The Case of Three-Electron Systems" deals with the ground state and the first excitation state for atoms

Card 1/3

of the lithium type. With respect to the two internal electrons a 5-configuration approximation: $1s^2-2p'^2-2s'^2-3d'^2-3p'^2$ is used (Ref 4) and external electrons are dealt with by the approximation method for electron states. The chapter: "The Problem of Anomaly in the Spectra of Carbon, Nitrogen, and Oxygen" deals with the values of q = 2, 3, 4, where, in the intervals between the energies of individual terms, the anomaly occurs; for carbon or oxygen the experimental value of

$\frac{^1S - ^1D}{^1D - ^3P} = 1,13$ and the theoretical value is 1,5. In the case of nitrogen the experimental value obtained is 0,5, the theoretical value is 0,67. If the problem is solved according to the two-electron state, the values 1,1 and 0,5 respectively are obtained, which are near the experimental values. In the chapter: "Evaluation of Results" the conclusion is arrived at that in multi-configuration approximations carried out on the basis of two-electron states the conception of the shell structure of

electrons in atoms is maintained. There are 12 references, 7 of which are Soviet.

ASSOCIATION: Institut fiziki i matematiki Akademii nauk Litovskoy SSR, Vil'nyusskiy gos. pedagogicheskiy institut i Vil'nyusskiy gos. universitet im. V. Kapsukas (Institute of Physics and Mathematics, AS Lithuanian SSR, Institute of Pedagogics and State University imeni V. Kapsukas in Vil'nyus)

1. Atoms--Mathematical analysis 2. Carbon--Spectra 3. Nitrogen --Spectra 4. Oxygen--Spectra

SHIRVATIS, A.I. [Sirvatis, A.]; DENIS, V.I. [Dienys,V.]; KAVETSKITE, M.V. [Kaveckyte,M.]

Photoconductivity of polycrystalline cadmium sulfide and cadmium selenide with the exposure to -rays. Liet ak darbai B no.2:47-59 '60. (EEAI 10:1)

1. Institut fiziki i matematiki Akademii nauk Litovskoy SSR
(Photoconductivity) (Cadmium sulfide)
(Cadmium selenide) (Gamma rays)

KAVETSKIY, A.S.

[Blood transfusion in rural hospital] Kak perelivat' krov' kapliami v usloviiakh liuboi bol'nitsy. Feldsher & akush. no.3:48 Mr '50. (CIML 19:1)

S/081/62/000/018/046/059
B160/B186

AUTHOR: Kavestkiy, G. D.

TITLE: Development of a continuous method of producing polyformaldehyde

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 18, 1962, 502, abstract 18P51 (Tr. Mosk. in-ta khim. mashinostr., v. 20, 1960, 87-94)

TEXT: A continuous method of polymerizing gaseous CH_2O has been developed in order to improve the quality of polyformaldehyde (PF) and intensify the process of its production. The method consists in feeding a carefully dried (0.004%) solvent (gasoline with a boiling point of 80-120°C or petroleum ether) at a set volumetric rate into a 150 ml reaction vessel with a catalyst (diethyl ethanol amine, diphenyl amine, Ca stearate, ammonium stearate, 0.02-0.03% of the weight of the solvent), whilst monomer gaseous CH_2O is fed at a constant rate (12-16 g/1min) from a destructive distillation column. The PF which has formed is led away through side nozzle at the top. The relationship of the PF yield and of

Card 1/2

Development of a continuous ...

the polymerization rate to time was ascertained. It was proved that in order to ensure a constant polymerization rate an additional 60% of catalyst has to be introduced every 15 min, and that the process slows down if the supply of catalyst is cut off. It was established that the method of polymerization here developed ensures a constant-rate process and improves the quality of the polymer. [Abstracter's note: Complete translation.]

Card 2/2

REZNICHENKO, V.A.; TKACHENKO, V.A.; MIKELADZE, G.Sh.; KARYAZIN, I.A.; KOZLOV, V.M.; NADIRADZE, Ye.M.; SOLOV'YEV, V.I.; GOGORISHVILI, B.P.; Prinimali uchastiye: PKHAKADZE, Sh.S.; METREVELI, A.I.; CHIKASHUA, D.S.; KHROMOVA, N.V.; KAVETSKIY, G.D.; TSKHVEDIANI, R.N.; ARABIDZE, T.V.

Making titanium slag in an electric closed reduction furnace. Titan i ego splavy no.8:28-40 '62. (MIRA 16:1)
(Titanium--Electrometallurgy)

KAVETSKIY, G.D.; PLANOVSKIY, A.N.; AKOPYAN, L.A.

Calculating the longitudinal mixing of gas and solid granular material in a packed tower. Khim. prom. no.6:449-453 Je '63. (MIRA 16:8)

(Packed towers)

KAVETSKIY, G.D.; PLANOVSKIY, A.N.

Flow of a solid granular material in an ascending stream of gas in packed columns. Khim.i tekh.topl. i masel 7 no.11:8-12 N '62.
(MIRA 15:12)

1. Moskovskiy institut khimicheskogo mashinostroyeniya.
(Granular materials) (Packed towers)

KAVETSKIY, G.D.; AKOPYAN, L.A.

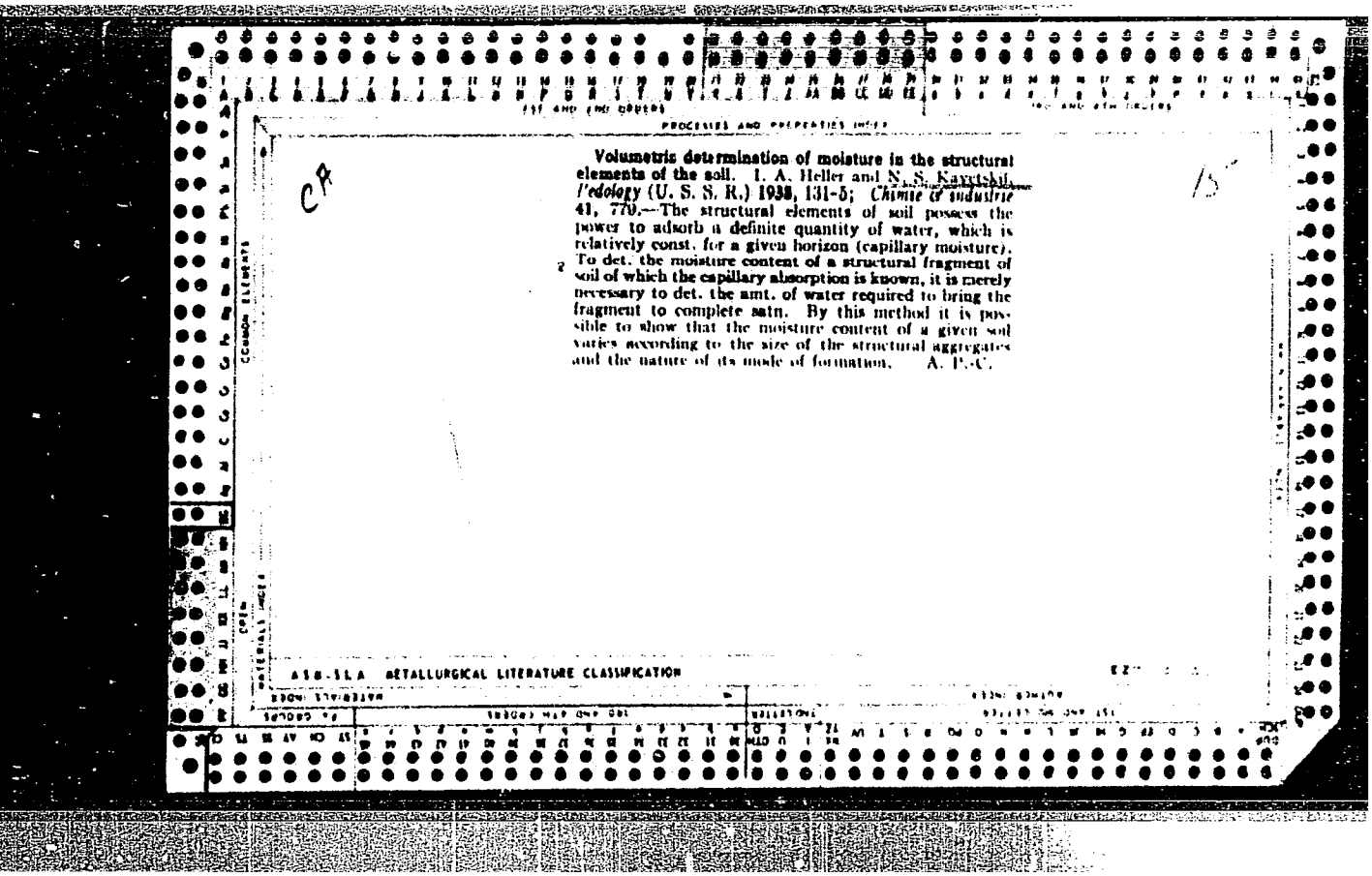
Effect of the design of a gas distribution device on the concentration of the solid phase in a packed column. Khim. i tekh. topl. i masel 8 no.10:4-6 O '63. (MIRA 16:11)

1. Moskovskiy institut khimicheskogo mashinostroyeniya.

GORENBEYN, Yu.Ya. [Horenbein, IU.IA.]; KAVETS'KIY, M.S. [Kavets'kyi, M.S.]

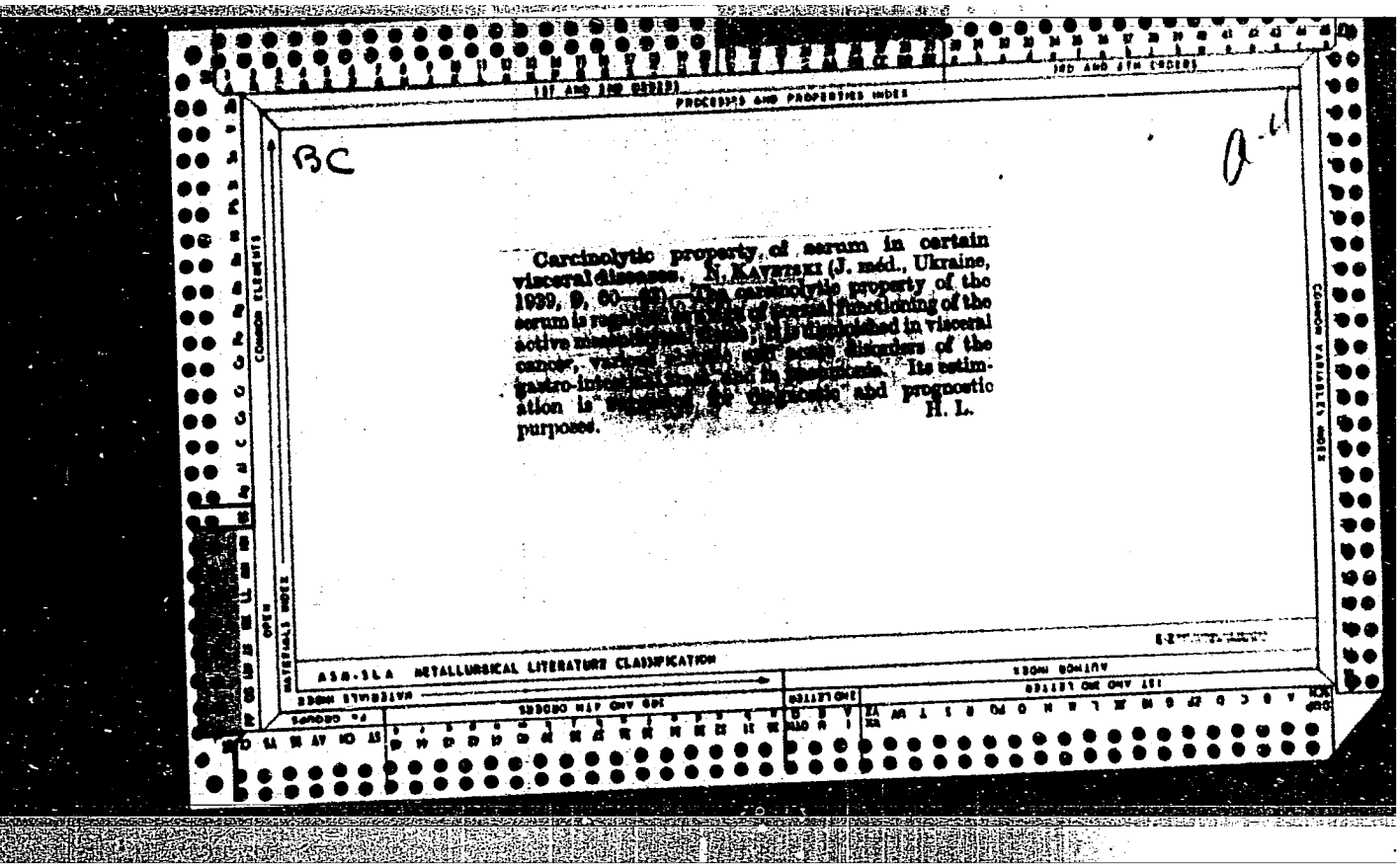
Determining the decomposition voltage of molten salts in graphite crucible blocks. Nauk. pratsi UASHN 17 no.12:167-169 '60. (MIRA 16:7)

(Electrolysis) (Fused salts)



Volumetric determination of moisture in the structural elements of the soil. I. A. Heller and N. S. Kayrtshal. *Pedology* (U. S. S. R.) **1938**, 131-5; *Chimie & industrie* 41, 770.—The structural elements of soil possess the power to adsorb a definite quantity of water, which is relatively const. for a given horizon (capillary moisture). To det. the moisture content of a structural fragment of soil of which the capillary absorption is known, it is merely necessary to det. the amt. of water required to bring the fragment to complete satn. By this method it is possible to show that the moisture content of a given soil varies according to the size of the structural aggregates and the nature of its mode of formation. A. P.-C.

A 38-51 A METALLURGICAL LITERATURE CLASSIFICATION



1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

A-1

BC

E.m.f. of Daniell's cells in molten salts. E. M. Skobets and N. S. Kavetzki (Mem. Inst. Chem. Ukrain. Acad. Sci., 1940, 6, 149—162).—The e.m.f. of the cells Pb|5% $PbCl_2$||5% AgCl, $CuCl_2$ or $NiCl_2$| Ag, Cu or Ni (the solvent is fused KCl-NaCl-$SrCl_2$, at 600—800°) is conveniently measured using an unglazed porcelain diaphragm between the half-cells. The results obtained with glass diaphragms vary according to the type of glass used. The e.m.f. falls linearly with rising temp. R. T.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

PC

A-1

The reversible glass sodium electrode. E. M. Skobets and N. S. Kavetzki (*Mem. Inst. Chem. Ukrain. Akad. Sci.*, 1940, 7, 287–298). A thin glass bulb is blown out at an end of capillary, filled with Na, sealed, and heated to cause the Na_2O or NaOH present in the Na to react with the glass; a Pt or Cu wire connects the Na ingot with the outside. The resistance of the glass layer may be some 6000 Ω at 300°; at lower temp. it is much higher. The cell Na|glass|$AlBr_3$ 70, NaBr 30 mol.-%|Al has an e.m.f. of 2·71 v. at 105° and 2·70 v. at 255°. Instead of Na a Na amalgam can be used. The following e.m.f. (temp. in parentheses) are given by the cell 40 wt.-% Na amalgam|glass|$AlBr_3$ 70, NaBr 30 mol.-% metal bromide 10 wt.-%|metal: Al 1·61 (220°), 1·58 (300°); Zn 1·60 (200°), 1·65 (315°); Cd 1·71 (200°), 1·72 (315°); Pb 1·70 (200°), 1·77 (300°); Sn 1·87 (200°), 1·88 (300°); Ag 2·08 (200°), 2·01 (310°); Bi 2·22 (200°), 2·22 (305°); Cu 2·32 (250°), 2·32 (315°); Hg 2·33 (200°), 2·35 v. (300°). The Na amalgam-glass electrode was also used for determining the decomp. potential of an $AlCl_3$–NaCl melt at 280°.

I. I. B.

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