

BELYAYEVA, N. V.

Dissertation defended in the Geological Institute for the academic degree of Candidate of Geologo-Mineralogical Sciences:

"Distribution of Plankton Foraminifers in the Waters and Sediments of the Indian Ocean."

Vestnik Akad Nauk, NO. 4, 1963, pp 119-145

BEIYAYEVA, N.S.

Distribution of plankton foraminifers on the bottom of the
Indian Ocean. Vop. mikropaleont. no.7:209-222 1969.

(MIRA 17:10)

1. Institut okeanologii AN SSSR.

BELYAYEVA, N.V.

Distribution of plankton foraminifers in the waters and the
bottom of the Indian Ocean. Trudy Inst. okean. 68:12-83 '64.
(MIRA 17:6)

BELYAYEVA, N.V.

Relapsing agranulocytosis. Sovet med. 17 no. 12:3-6 Dec 1953.
(CIML 25:5)

1. Of the Hospital and Propedentic Therapeutic Clinic (Director --
Prof. Ye. M. Tarayev, Active Member AMS USSR) of the Sanitary-
Hygienic Faculty of First Moscow Order of Lenin Medical Institute.

1. Belyayeva N.V. et al.
BELYAYEVA, N.V.; KANEVSKAYA, T.S.

Acute hemolytic reaction (hemoglobinuria fever) in therapy with streptocide. Sov.med.19 no.9:48-51 S '55. (MLRA 8:12)

1. Iz gosspital'noy i propedevticheskoy terapevticheskoy kliniki (dir.-deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR prof. Ye. M. Tareyev) sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta i detskoy bol'nitsy Moskovsko-Kursko-Donbasskoy zheleznoy dorogi (nachal'nik A.N.Galkina)

- (SULFANILAMIDE, injurious effects, anemia, hemolytic, with hemoglobinuria)
- (HEMOGLOBINURIA, etiology and pathogenesis sulfanilamide, allergic reaction)
- (ANEMIA, HEMOLYTIC, etiology and pathogenesis sulfanilamide, allergic reaction)
- (ALLERGY, to sulfanilamide, causing hemolytic anemia with hemoglobinuria)

БЕЛЫЯЕВА, Н.В.
BELYAYEVA, N.V.

Aplastic anemia and agranulocytosis in synthomycin therapy. Sov. med. 21 no.8:112-122 Ag '57. (MIRA 10:12)

1. Iz propedevticheskoy i gospital'noy kliniki (dir. - deystvitel'-nyy chlen Akademii meditsinskikh nauk SSSR prof. Ye.M.Tareyev) Sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

(CHLORAMPHENICOL, inj. eff.

agranulocytosis & aplastic anemia (Rus))

(ANEMIA, APLASTIC, etiol. & pathogen.

chloramphenicol ther. (Rus))

(AGRANULOCYTOSIS, etiol. & pathogen.

same)

PELYAYEVA, N.V., Cand Med Sci -- (diss) "Hematological syndromes in intolerance to drugs." Mos, 1958, 14 pp
(First Mos Order of Lenin Med Inst im I.M. Sechenov)
200 copies (KL, 23-58, 111)

- 120 -

APROSINA, Z.G., kand.med.nauk; BELYAYEVA, N.V.

Treatment of lymphogranulomatosis with butadion. Sov.med. 23
no.1:119-124 Ja '59. (MIRA 12:2)

1. Iz kafedry obshchey i gospital'noy terapii (zav. - deystvitel'nyy chlen AMN SSSR prof.Ye.M. Tareyev) sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova na baze 24-y Gorodskoy klinicheskoy bol'nitsy (glavnyy vrach V.P. Uspenskiy).

(HODGKIN'S DISEASE, ther.
phenylbutazone (Rus))
(PHENYLBUTAZONE, ther. use
Hodgkin's dis. (Rus))

L 63798-65 - ENT(m)/EFP(c)/EWP(v)/EWP(j)/T W/RM

ACCESSION NR: AP5018794

UR/0138/65/000/007/0023/0028

667.494.7.061.43.01:621.790

AUTHOR: Garetovskaya, N. L.; Belyayeva, N. V.

TITLE: Adhesive compositions for polyester fiber

SOURCE: Kauchuk i rezina, no. 7, 1965, 23-28

TOPIC TAGS: polyester fiber, adhesive, bonding material, isocyanate, rubber bonding

ABSTRACT: The article presents certain data obtained by testing methods of bonding heavy technical polyester fabrics such as belting to rubbers used for the production of high-strength conveyor belts. Isocyanates were found to produce very strong bonds between polyester fiber and rubbers. At the present time, the most efficient method of production consists of a two-stage impregnation: in a latex - resorcinol - formaldehyde composition and in an organic solvent. The bonding strength between rubber and fabric was studied as a function of the amount of isocyanate in the adhesive, duration of storage of the adhesive composition, duration of storage of the fabric smeared with the adhesive, method of impregnation, duration of contact between the fabric and a dichloroethane solution of isocyanate, and duration of storage of various bonded samples. The method of treatment

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L 63798-65

ACCESSION NR: AP5018794

with adhesive compositions containing isocyanates is recommended for the manufacture of materials obtained by spreading. In the production of triphenylmethane trisocyanate, the solvent dichloroethane should be replaced by methylene chloride. Orig. art. has: 6 figures. 4

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry) 2455

SUBMITTED: 00

ENCL: 00

SUB CODE:

NO REF SOV: 004

OTHER: 011

He
Card 2/2

BELYAYEVA, N.V.; SAIDOVA, Kh.M.

Correlation of benthonic and planktonic Foraminifera in the surface layer of the sediments of the Pacific Ocean. Okeanologia 5 no.6:1010-1014 '65. (MIRA 19:1)

1. Institut okeanologii AN SSSR.

GANAGO, F.M., kand. med. nauk; Prinsipali uchastiyes: ALEKSEYEVA, R.M.,
vrach (Sverdlovsk); AYZENSHTYIN, B.S., vrach (Sverdlovsk);
BABINOVA, G.D., vrach (Sverdlovsk); BOROVITSKAYA, L.M., vrach
(Sverdlovsk); VARGANOVA, M.V., vrach (Sverdlovsk); KOPILOVA,
K.P., vrach (Sverdlovsk); SOKOLOVA, O.V., vrach (Sverdlovsk);
SHEVTSOVA, R.P., vrach (Sverdlovsk); SHELOMOVA, I.M., vrach
(Sverdlovsk); BYKHOVSKAYA, M.A., vrach (Revda); BELYAYEVA,
N.Ya., vrach (Magnitogorsk); KRUGLOVA, N.A., vrach (Kurgan);
NIKIFOROVA, F.N., vrach (Kurgan); MITINA, O.A., vrach (Asbest);
PORKHOVNIKOVA, E.D., vrach (Ufa); PONOMAREVA, N.I., vrach
(Orenburg); RASSOSHNYKH, G.F., vrach (Perm); SAZANOVA, V.V.,
vrach (Izhevsk)

Chemoprophylaxis of tuberculosis in children and adolescents
in foci of tuberculous infection. Probl. tab. 42 no.186-11
164.
(MIRA 17:8)

1. Detskoye otdeleniye (zav. F.M. Ganago) Sverdlovskogo insti-
tuta tuberkuleza (dir. - prof. I.A. Shaklein) (for Ganago).

KRISTER, E.E., dotsent; BELYAYEVA, O.N.; GOLDINA, V.V.; GURSKAYA, T.K.;
LESHCHENKO, A.I. (Kiyev)

Coronary insufficiency in people engaged in mental work. Klin.med.
no.12:3-6 '61. (MIRA 15:9)

1. Iz otdela funktsional'noy patologii (zav. - dotsent E.E.
Krister) Ukrainskogo nauchno-issledovatel'skogo instituta klini-
cheskoy meditsiny imeni akad. N.D. Strazhesko (dir. - zaslushennyy
deyatel' nauki prof. A.L. Mikhnev).
(CORONARY HEART DISEASE)

BELYAYEVA, R.A.

Development of invention and innovation at the enterprises
of the Administration of the Furniture and Woodworking
Industries of the Leningrad Economic Council. Nauch. trudy
LTA no.99:145-156 '62. (MIRA 17:1)

BELYAYEVA, R.A.

Evaluation of the state of the blood circulatory system in
mitral stenosis based on gas exchange data. Terap. arkh. 35
no.5:60-65 My'63 (MIRA 16:12)

1. Iz fakul'tetskoy terapevticheskoy kliniki Voronezhskogo
meditsinskogo instituta (nauchnyy rukovoditel' - prof. M.N.
Tumanovskiy).

BEVYAZOVA, G. L., TIMOFEEVA, A. I., KOVACHUKA, G. L.

"A zoologo-parasitological description of the foci of hemorrhagic nephroso-nephritis in the city of Khabarovsk and its outskirts." p. 122

Dasymtoye soveshchaniya po parazitologicheskim problemam i prirodnoochagovym bolezniam. 22-23 Sentyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-23 October 1959), Moscow-Leningrad, 1959, Academy of Medical Science USSR and Academy of US S., No. 1 254pp.

BELYAYEVA, T.B.; ZALGALLER, V.A.

Formulation of the theory of envelopes; a methodological note.
Usp. mat. nauk 18 no.5:137-149 S-0 '63. (MIRA 16:12)

$L = \{P, Q, R, A(d), B(v), C(k), D(h), E(l)\}$

ACC NR: AT6024068

SOURCE CODE: UR/2944/66/000/003/0070/0075

AUTHOR: Belyayeva, T. B.

ORG: none

TITLE: Stability conditions for automatic control systems with variable parameters

SOURCE: Leningrad. Universitet. Kafedra vychislitel'noy matematiki i Vychislitel'nyy tseentr. Metody vychisleniy, no. 3, 1966, 70-75

TOPIC TAGS: automatic regulation, stability condition, linear differential equation

ABSTRACT: Stability conditions are given for the system

$$\dot{z} = Pz + q\varphi(\sigma), \quad \sigma = [a_0 + a(t)]r^*z, \quad (1)$$

as follows:

$$a_0 > 0, \quad 0 < a(t) < a_1; \quad (2)$$

$$0 < \frac{\varphi(\sigma)}{\sigma} < \mu_0 \quad (\sigma \neq 0, \mu_0 < +\infty). \quad (3)$$

It is concluded that (1) is absolutely stable if the spectrum of matrix P lies in the left half-plane and if the following holds:

$$\frac{1}{(a_0 + a_1)\mu_0} + \operatorname{Re}((P - i\omega I)^{-1}q, r) > 0, \quad \omega > 0.$$

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L 09442-67

ACC NR: AT6024068

It is proved that under certain assumptions in addition to conditions (2) and (3), the system of indirect control

$$\begin{cases} \dot{x} = Ax + a\varphi(\sigma), \\ \dot{\sigma} = [a_0 + \alpha(t)] b^*x - \rho\varphi(\sigma), \quad \rho > 0. \end{cases}$$

is in its trivial solution stable as a whole. Orig. art. has: 35 formulas.

SUB CODE: 12/ SUBM DATE: 16Apr63/ ORIG REF: 005

Card 2/2

BELYAYEVA, T. G.

Cand Biolog Sci

Dissertation: "Experimentally-Morphological and Hystological Investigations
of the Cornea of Amphibia." 2h/1/50

Moscow Regional Pedagogical Inst

SO Vecheryaya Moskva
Sum 71

BELYAYEVA, T. G.
BELYAYEVA, T. G.

USSR/Medicine - Tissue Transplantation

May/June 51

"Restoration of the Cornea of Adult Mammals by Replacing it With Embryonal Skin,"
V. V. Popov, T. A. Bednyakova, T. G. Belyaeva, Exptl Embryol Lab imeni Filatov,
Inst of Animal Morphol, Acad Sci USSR, and Chair of Embryol, Moscow State U
imeni Lomonosov

"Iz Ak Nauk SSSR, Ser Biol" No 3, pp 3-17

Based work on Popov's expts on adult lower vertebrates, such as amphibia and fish.
Used lab rats for expts. Rat embryos, 13-19 days old served as donors. Obtained best
results with transplantations of skin from embryo 15-17 days old. Carried out total of
217 transplatations. Transplatate does not grow into skin, but always develops into
cornea, exactly as had been demonstrated in expts conducted on lower vertebrates.

186T70

same article title and authors, Dokl. Ak. Nauk SSSR, 77, No. 3, p. 529-32, 1951

BELYAYEVA, T. G.

23172

USSR/Biology, Medicine - Replacement of Cornea May 52

"Replacement of the Cornea of Adult Rats and Guinea Pigs With Fixed Embryonal Skin," T. G. Belyayeva, Inst of Animal Morphol Imeni A. N. Severtsov, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol 84, No 2, pp 381-384

Compares results achieved by replacing the cornea with fresh embryonal skin and "fixed" embryonal skin (i.e., skin preserved after treatment with formaldehyde and alc). Points out

23172

that, in contradistinction to fresh skin, fixed skin serves merely as a matrix along which the regenerating tissue grows: the transplantate itself is composed of dead tissue that is gradually resorbed. Nevertheless, fixed skin becomes translucent after transplantation into the eye, just as fresh skin does. Presented by Acad A. I. Abrikosov 13 Mar 52.

23172

BELYAYEVA, T. G.

USSR/Medicine - Experimental morphology

Card 1/1 Pub. 22 - 47/50

Authors : Belyaeva, T. G.

Title : Replacement of an open wound in the cornea of rabbits with the
 embryonal skin

Periodical : Dok. AN SSSR 100/1, 179-182, Jan. 1, 1955

Abstract : A new method is introduced for the revivification of pathologically
 changed cornea. A total of 248 embryonal skin transplant operations
 were carried out on rabbits with damaged cornea and the results obtained
 are described. Eleven references: 9 USSR, 1 German and 1 English (1915-
 1954). Illustrations.

Institution : Acad. of Sc., USSR, The A. N. Severtsov Institute of Animal Morphology

Presented by : A. I. Abrikosov, October 23, 1954

BELYAYEVA, T.G.

Some data on the secretion of corpora allata in caterpillars and adult forms of the Chinese tussah moth (*Antheraea pernyi*). Dokl. AN SSSR 134 no.4:987-990 0 '60. (MIRA 13:9)

1. Institut morfologii zhivotnykh im. A.N.Severtsova Akademii nauk SSSR. Predstavleno akad. I.I.Shmali'gauzenom.
(Endocrine glands) (Insecta--Physiology)

BELYAYEVA, T.G.

Histochemical study of the secretion of corpora allata in caterpillars of the Chinese tussah moth (*Antheraea pernyi*); polysaccharides. Dokl. AN SSSR 135 no. 449-452 N '60. (MIRA 13:11)

1. Institut morfologii zhivotnykh im.A.N.Severtsova AN SSSR. ¹redstavleno akademikom Ye.N. Pavlovskim. (Silkworms) (Glycogen) (Glands)

BELYAYEVA, T.G.

Data on the secretion of corpora cardiaca in caterpillars and adult moths of the Chinese oak silkworm (*Antheraea pernyi*). Dokl. AN SSSR 140 no.3:692-695 S '61. (MIRA 14:9)

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR.
Predstavleno akademikom I.I.Shmal'gauzenom.
(Insects--Physiology) (Glands)

USSR / Human and Animal Physiology. Neuromuscular Physiology. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41653.

Author : Stroykova, K. V.; Belyayeva, T. I.

Inst : Not Given.

Title : The Effect of High Tension, Low Frequency Electrical Field on the Level of the Macroergic Phosphoric Compounds in the Skeletal Muscle of Warmblooded Animals.

Orig Pub: Fiziol. zh. SSSR, 1957, 43, No 5, 469-472.

Abstract: Mice were placed for a period of 3 hours between 2 lamellar electrodes charged with 60.0000 v. The speed of onset of muscle rigor (after decapitation)

Card 1/3

USSR / Human and Animal Physiology. Neuromuscular T
Physiology.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41653.

Abstract: was determined in the experimental and control animals (placed in identical cages) after the method of L. N. Tank (Fiziol zh SSSR, 1954, 40, No 2, 216) during the same period, but with excluded transformers. The average time of rigor onset after the first exposure was short - 6.0-10.6 min, and in the controls - 23.5-27.0 min. After a third exposure, for periods of 3 hours, the time of rigor onset increased to 15-16.1 min. After 15 exposures, the time of rigor was 20.5 min. The average speed of rigor onset in the experimental animals was 16.1 min. A shorter rigor-onset time was noted in the experimental animals, with a tendency to slowing of rigor with the increase in the number of exposures. All the

Card 2/3

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USSR / Human and Animal Physiology. Neuromuscular Physiology. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41653.

Abstract: experiments demonstrated disturbances of the balance of the macroergic compounds under the effect of the electrical field. It is concluded that, during its early action the electrical field causes a decrease of the macroergic level and that with prolongation of exposure a change in the metabolic processes possibly takes place with compensating effect. The development of rigor at an earlier period, immediately after death, is characteristic.

Card 3/3

BELYAYEVA, T. M.

Belyayeva, T. M. and Morkovkina, A. G. "Cytobacterioscopy of urethral discharges in female gonorrhoea", Sbornik nauch. trudov (Rost. obl. nauch.-issled. akusherslo-ginekol. in-t), Issue 8, 1948, p. 61-67

So: U-3261, 10 April 1953 (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949).

BELYAYEVA, T. M.

BELYAYEVA, T. M. -- "The Problem of Changes in the Mucous Membrane of the Vagina and Cervix Uteri in Female Workers of Sorting Departments of Coal Mines under the Influence of Coal Dust." Rostov Na Donu State Medical Inst. Rostov na Donu, 1955. (Dissertation for the Degree of Candidate in Medical Sciences)

SO: Knizhnaya Letopis', No 1, 1956

1. In: *Trudy naukovykh setevchik*

Acidic acid content in the endometrium in the course of the menstrual cycle in sterility. *Sov. med. nat. sci. ser. med. inst. no. 11:303-308 '63.*

Study of the luteinic function in women with sterility of organic etiology. *Ibid.:309-316*

1. In: *akusherko-ginekologicheskoy* *vestnik* (dir. - prof. med. nauk L.Ya. Giumtseyn) Rostovskogo-na-Donu *uchebno-nauchnoho* *instituta* *akusherstva i* *pediatrii* (dir. - prof. med. nauk V.I. Danilovskaya), *konstant* - prof. P.Ya. *...*

BELYAYEVA, T.N.

High-speed cutting on automatic machines. Mashinstroitel' no.9:
23-24 S '63. (MIRA 16:10)

(Machine tools)

DOBROVOL'EKIY, O.A.; BELYAYEVA, I.N.; GOLUBOV, I.P.

Measuring the density of methane by the hydrostatic suspension
method. Gaz. prom. 9 no.11:47-48 '64. (MIRA 17:12)

ZVEREVA, V.A.; BELYAYEVA, T.N.

Dutch cheese as a possible source of food poisoning of a
staphylococcal nature. Uch.zap. Mosk. nauch. issl. inst.
san. i gig. no.4:53-56 '60 (MIRA 16:11)

X

PERMINOV, A.Ye.; ROMANOV, A.A.; MIZEROV, A.V.; TSYBA, M.M.;
ZHELUDKOV, A.S.; NEKRASOV, V.V.; PRASOLOV, M.I.;
BARTENEV, S.N.; BELYAYEVA, T.P.; ZHERDEV, P.A.;
KOYVUNEN, T.M.; SMORODOV, P.V., redaktor; POD'YEL'SKAYA,
K.M., tekhn. red.

[Manual for a Karelian field crop grower] Spravochnik
karel'skogo polevoda. Petrozavodsk, Karel'skoe knizhnoe
izd-vo, 1962. 435 p. (MIRA 17:3)

LEVSH, I.P.; EL'GORT, V.M.; ANOSHKINA, G.M.; BELYAYEVA, T.V.

Dynamics of the drying of Angren black clay. Uzb.khim.
zhur. no.5:79-83 '61. (MIRA 14:9)

1. Sredneaziatskiy politekhnicheskii institut.
(Angren--Clay--Drying)

BELYAYEVA, T.V.

Composition and distribution of diatoms in the surface layer
of the Pacific Ocean sediments. Okeanologiya 3 no.4:684-
696 '63. (MIRA 16:11)

1. Institut okeanologii AN SSSR.

BELYAYEVA, T.V. (Sechkina)

Diatoms from the surface layer of sediments in the northwestern part
of the Pacific Ocean. Trudy Inst.ocean. 46:231-246 '61.
(MIRA 14:6)

(Pacific Ocean--Diatoms, Fossil)

BELYAYEVA, T.V. (Sechkina)

Diatoms from the surface layer of sediments in the Sea of Japan.
Trudy Inst.ocean. 46:247-262 '61. (MIRA 14:6)
(Japan, Sea of--Diatoms, Fossil)

VYAZOVSKAIA, N.; BELYAYEVA, V.

Moldavia - Muskrats

Muskrat in Moldavia. Vokrug sveta No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

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Grating of citrus plants. V. Belyakova, *Soviet. Sub-tropiki* 1938, No. 11, 52-7; *Khim. Referat. Zhur.* 2, No. 4, 63 (1939).—The max. amt. of sol. substances in fruits was produced by grafting to *Poncirus trifoliata* (from 9.8% to 12.62%) and the min. amt. by grafting to *Citrus limonia* (from 8.7% to 10.9%). The same law holds for citric acid. W. R. Henn

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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PRECEDENTS AND PROPERTIES INDEX

15

Tests on the fertilization of citrus crops V. Belyaeva
Soviet Subtropics 1939, No. 1, 54-1; *Chemie & Technologie*
 42, 908; *et. C. A.* 34, 1352. — Generally speaking, farm
 manure sufficiently enriches the soil in nutritive elements
 required for citrus plants: P, K, Ca, Mg and S. In
 certain cases it is advisable in addn. to spray the trees
 with Zn salt solns. when the Zn content of the soil is too
 low. From 0.9 to 1.4 kg. of available N is required per
 tree; but a considerable portion of this quantity is not
 used but is removed from the soil by atm. pptns., irriga-
 tion, etc. A. Popovskiy, G. G. Kontseva

ASB-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

1939-1940

15

CA

DEFICIENCY AND EXCESS OF NUTRITIVE SUBSTANCES FOR CITRUS CROPS.

V. Belyayev, *Soviet Subtropics* 1939, No. 9, 31-5; *Chem. Zentr.* 1939, II, 3842; cf. *C. A.* 34, 28811. — A summary of the symptoms produced by the supplying of insufficient or excess amts. of N, P₂O₅, K, Fe, Mn, Zn, Cu, Mg, Ca and B to citrus trees. Methods of treating injuries resulting from a lack or excess of these elements are reported and data are given on the optimum doses.

M. G. Mourc

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

COMMON ELEMENTS

PROCESSES AND PROPERTIES INDEX

LIST AND INDEX

AGRANOVSKIY, I.; ARANOVICH, B.; BELYAYEVA, V.; BOL'SHAKOV, A.; GRUZDEV,
V.; DICH, S.; ZELENTSOV, I.; KONKIN, A.; LEVIT, R.; MIKHAYLOV,
N.; MOGILEVSKIY, Ya.; SERKOV, A.; SMFLKOV, G.; SNETKOV, N.;
SOROKIN, Ya.; SHIFRIN, L.

In memory of Vladimir Sergeevich Smurov, 1897-1965. Khim.
volok. no.2:78 '65. (MIRA 18:6)

KUPEYEV, Yu.; MIKHAYLOVA, Ye.; BELYAYEVA, V.; STRANTSEVA, Yu.

Alternating current generator of the PAZ-652 motortruck. Avt.transp.
39 no.6:40-43 Je '61. (MIRA 14:7)
(Motortrucks--Electric equipment)

BELYAYEVA, V. A.

137-58-1-2104

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 285 (USSR)

AUTHORS: ~~Belyayeva, V. A.~~, Tarantsova, M. I., Glushko, Ye. I.

TITLE: Electrolytic Segregation of Iron from Titanium
(Elektroliticheskoye otdeleniye zheleza ot titana)

PERIODICAL: Sb. stud. rabot. Rostovsk. un-t, 1957, Nr 3, pp 45-48

ABSTRACT: An experimental verification of the segregation of Fe from Ti by electrolysis, using an Hg cathode at 2.5-3 amp and 5-6 v in 50-55 min time is presented. An artificial mixture of Fe and Ti containing 0.28-32.77 percent Ti was investigated. To determine the Ti in the Fe-Ti, 0.5 g of the latter is dissolved in 20 cc aqua regia, 2-3 drops of HF being added at the end of the period of solution, subsequent to which 20 cc H₂SO₄ (1:1) is added; evaporation follows until SO₃ vapors appear. The precipitant coming down under these conditions is dissolved in 5 percent H₂SO₄ and one then proceeds as described above.

Z. G.

1. Iron--Separation 2. Titanium--Separation 3. Electrolysis
--Applications

Card 1/1

BELYAYEVA, V. A.

BTLSB

3/07/60/030/012/005/011
2019/5056

34,2120 (1492,1502,1395)

AVTORS: Zaydol, A. I., Belyayeva, V. A., Shreyder, G. M., Shreyder, Ye. Ye.,
Buzina, A. I., Belyayeva, V. A., Gladuchak, Y. I.,
Kuznetsov, V. V., Sokolov, L. V.

TITLE: Spectral Examinations With "Alife" Research Installation.
I. Study of the Character of the Spectrum and of the Ion
Temperature

PERIODICAL: Zhurnal tekhicheskoy fiziki, 1960, Vol. 30, No. 12,
pp. 1422-1432

TEXT: The spectrum of the discharge was investigated within the range
of 350-5000 Å. The spectrum of 350-2000 Å was recorded by a vacuum
spectrograph (600 lines/mm), the optical axis of the instrument was laid
in a radial direction. From 2000 Å to 5000 Å a quartz spectrograph was
used. Fig. 1 shows several spectra recorded by the apparatus. For deter-
mining the ion temperature, the authors used the relation
 $T = 1.95 \cdot 10^2 \lambda(\lambda)^2 (1)$, on the supposition that a Maxwell velocity

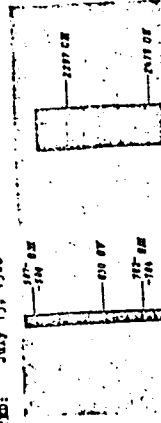
End 175

distribution of the ions. From the data concerning the temperature of the spectral lines within
herewith it follows that, in dependence on the section of the lines
from whose broadening the ion temperature is determined with (1), the
calculated temperature varies within the limits of $2 \cdot 10^4 - 15 \cdot 10^4$ K.
The calculated temperature is higher, the stronger the charge
of the ions. According to these data broadening of the lines of Al-
I is observed. This indicates an independent motion of the ions of Al-
I from the Doppler broadening of determining the plasma tempera-
ture from the Doppler broadening of the impurity atoms. The authors
thank B. P. Komantsev for discussions and E. I. Kalitvynskiy,
A. N. Maslovskiy, and M. P. Chayka for taking part in the work. There
are 6 figures, 4 tables, and 7 references; 3 Soviet and 4 int.

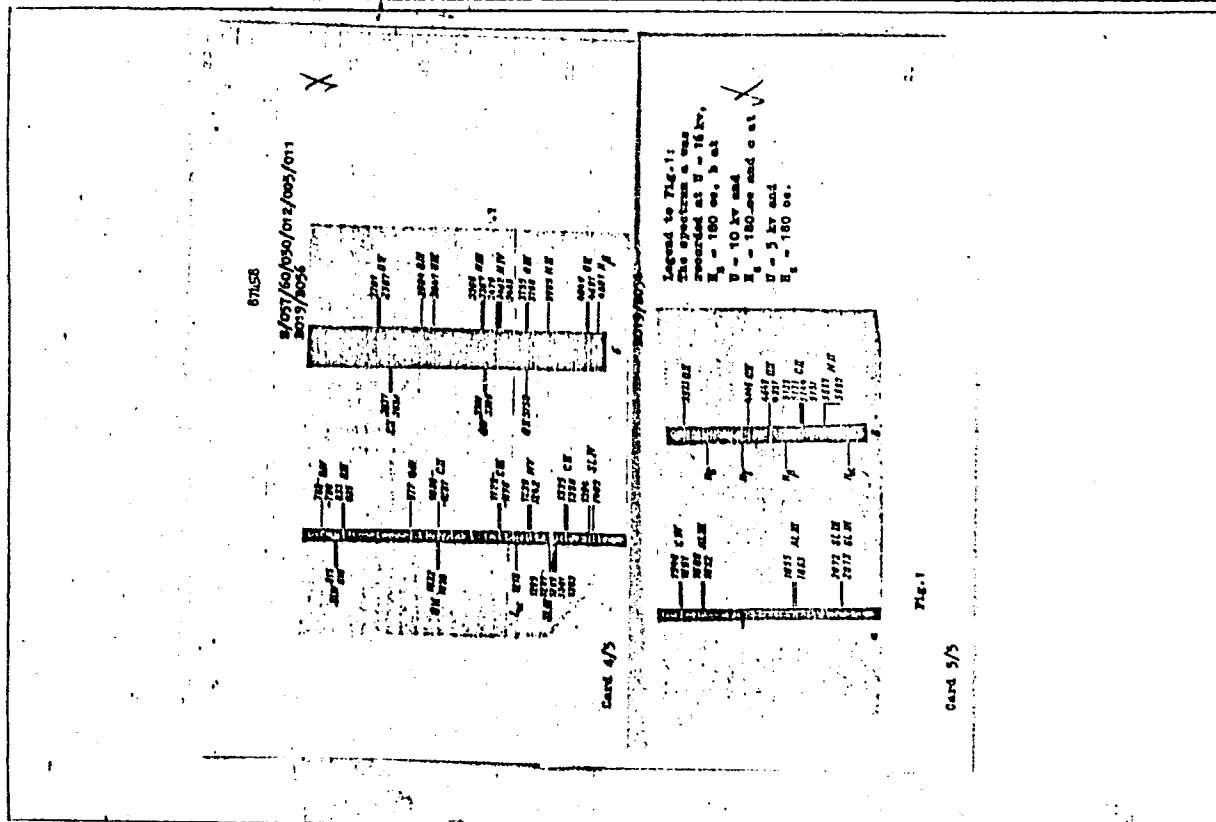
Card 2/5

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR (Institute of
Physics and Technology of the AN SSSR), Nauchno-
issledovatel'skiy institut fizicheskoy apparatury
(Scientific Research Institute of Electrophysical
Apparatus)

SUBMITTED: July 15, 1960



Card 3/5



BELYAYEVA, V.A.; DRITS, V.A.; ZAKHVALINSKIY, M.N.; LARINA, V.A.; NAGORNAYA,
Ye.F.; NIKULINA, S.Ye.; NAGORNYI, G.I.; SEMIUSOVA, T.N.

Characteristics of clays of the Troshkovskiy deposits of the
Irkutsk Province. Izv. Fiz.-khim. nauch.-issl. inst. Irk. un.
5 no.1:252-289 '61. (MIRA 16:8)

(Irkutsk Province--Clay--Analysis)

GORBACHEV, S.V.; BELYAYEVA, V.A.

Electrooxidation - electroreduction of the system iodine - iodide.
Zhur.fiz.khim. 35 no.9:2158-2162 '61. (MIRA 14:10)

1. Khimiko-tekhnologicheskiv institut imeni D.I. Mendeleeva.
(Iodine) (Iodides)
(Oxidation-reduction reaction)

GORBACHEV, S.V.; BELYAYEVA, V.A.

Electrolytic reduction-oxidation of the $Mn^{3+} - Mn^{2+}$ system.
Part 1. Zhur. fiz. khim. 36 no.1:229-233 Ja '62. (MIRA 16:8)

1. Khimiko-tekhnologicheskii institut im. D.I. Mendeleeva.
(Manganese compounds) (Electrochemistry)

GORBACHEV, S.V.; BELYAYEVA, V.A.

Electrooxidation-electroreduction of complex di-trivalent iron salts. Part 2: Dependence of the rate of electrolysis on the composition. Zhur.fiz.khim. 36 no.8:1794-1797 Ag '62. (MIRA 15:8)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni D.I. Mendeleeva.

(Oxidation-reduction reaction) (Electrolysis) (Iron compounds)

YAKOVLEVA, Ye.F.; BELYAYEVA, V.A.

Investigation of carbides precipitated from 12Kh2MFSR steel in
three different electrolytes. Sbor. trud. TSNIICHM no.31:129-132
'63. (MIRA 16:7)

(Chromium-manganese steel--Analysis)
(Electrochemical analysis)
Carbides)

KUZNETSOV, Ye.V.; SHERMERN, I.M.; BELYAYEVA, V.A.

Synthesis of polyesters based on trivalent phosphorus acids by
condensation polymerization at the interface. Trudy KKHTI no.30:
70-76 '62. (MIRA 16:10)

BELYAYEVA, V.A.

New design of rotating disk electrodes. Zhur. fiz. khim. 36 no.6:
1385-1387 Ja'62 (MIRA 1967)

1. Moskovskiy khimiko-tekhnologicheskii Institut Mendeleeva.

S/076/63/037/001/021/029
B101/B186

AUTHORS: Gorbachev, S. V., Belyayeva, V. A.

TITLE: Electrooxidation and electroreduction of the system Mn^{3+}/Mn^{2+} .
II. Dependence of the rate of electrolysis on its composition

PERIODICAL: Zhurnal fizicheskoy khimii, v. 37, no. 1, 1963, 197 - 201

TEXT: The polarization curves of the system $Mn^{3+} - Mn^{2+}$ were plotted, Mn^{3+} being stabilized as pyrophosphate complex $[Mn(H_2P_2O_7)_3]^{3-}$. The measurements were made at constant total concentration $[Mn^{3+}] + [Mn^{2+}] = 0.024 M$, ratio $[Mn^{3+}]:[Mn^{2+}] = 7:1$ to $1:7$, and at a rotational speed n of the platinum disc electrode varying between 360 and 3000 rpm at $40.5^\circ C$, as well as with $n = 0$ at $20.3^\circ C$. The dependences amp. I (μA) versus $[Mn^{2+}]$ for the anodic process, and I versus $[Mn^{3+}]$ for the cathodic process, were plotted from the polarization curves. Results: In both anodic and cathodic process the curves I versus concentration pass through a maximum. In purely chemical polarization the maximum corresponds to the ratio 1:1 of the components

Card 1/2

Electrooxidation and...

S/076/63/037/001/021/029
B101/B186



[Mn²⁺] and [Mn³⁺]. If in addition partial or pure concentration polarization occurs, the maximum shifts with increasing polarization potential toward the increasing concentration of Mn³⁺ in the cathodic process and toward the increasing concentration of Mn²⁺ in the anodic process. Further, the maximum depends on temperature, e.g. at 40.5°C, Δφ = 300 mv, the cathodic maximum lies near ~100 μa, ~0.018 mole/l Mn³⁺; at 20.3°C, Δφ = 300 mv, it is positioned near ~70 μa, ~0.014 mole/l Mn³⁺. Also, I is a linear function of the square root from the angular velocity of the electrode. There are 5 figures.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut im. D. I. Mendeleeva (Moscow Institute of Chemical Technology imeni D. I. Mendeleev)

SUBMITTED: November 23, 1961

Card 2/2

GORBACHEV, S.V.; BELYAYEVA, V.A.

Electrooxidation - electroreduction of the system Mn^{3+}/Mn^{2+} .
Part 2. Zhur.fiz.khim. 37 no.1:197-201 Ja '63. (MIRA 17:3)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleeva.

L 54584-65
EWS(j)/EWT(m)/EPP(c)/EPR/EWP(j)/EWA(h)/EWA(i) 10-4/11-4/12-4/
Pee TIAAP/RPL WJ/SJ
ACCESSION NR: AP501247
UR/0062/65/000/004/0592/0598
541.15+541.51

AUTHORS: Tikhomirov, L. A.; Belyayeva, V. A.; Buben, N. Ya.

TITLE: The kinetics of free radical build-up during radiolytic decomposition of solid substances

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 4, 1965, 594-598

TOPIC TAGS: radiolysis, free radical, electron paramagnetic spectrometer, electron paramagnetic resonance, reaction rate

ABSTRACT: The method of electron paramagnetic resonance was used to study the build-up and recombination of radicals CH_2OH and CH_3CHOH in the irradiated compounds $\text{CaCl}_2 \cdot 4\text{CH}_3\text{OH}$ and $\text{CaCl}_2 \cdot 3\text{C}_2\text{H}_5\text{OH}$. The samples were bombarded with electrons having energies of 1.6 mev directly in the resonator of an electron paramagnetic spectrometer. It was found that the limiting concentrations of the alcohol radicals in irradiated crystals do not depend on the radiation dosage. The reaction rate constant increases slowly with rise in temperature, not changing greatly for the different substances examined. This suggests that the process of radical

Card 1/2

I. 54584-65

ACCESSION NR: AP5012447

destruction is the same for the different substances. If irradiation does not appreciably affect the recombination rate of the radicals (in the temperature range 240-300K) then two processes of first-order radical destruction may be effective. First, the radiation itself may not only generate radicals, but destroy them as well, with formation of hydrogen atoms and molecules with double bonds. Secondly, the large number of radicals may not be uniformly distributed through the substance but rather be in pairs and groups, leading to first-order destruction of the radicals and to weak temperature dependence of the reaction rate constant. The dominant process can be determined only by examining the final products of solid-phase radiolytic decomposition. The temperature dependence of the reaction rate constant does not obey the Arrhenius equation. Orig. art. has: 4 figures.

ASSOCIATION: Institut khimicheskoy fiziki, Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences, SSSR)

SUBMITTED: 26Dec63

ENCL: 00

SUB CODE: 55, NP

NO REF SOV: 007

OTHER: 008

Card 2/2

BELYAYEVA, V.A.

Cathodic reduction of tetravalent tin. Zhur.fiz.khim. 39
no.10:2576-2578 0 '65. (MIRA 18:12)

1. Tul'skiy politekhnicheskiy institut. Submitted June 26,
1964.

BELYAYEVA, V.A.; ZAKHVALINSKIY, M.N.; ZIMINA, T.D.; DEMINA, T.N.;
KALASHNIKOV, P.V.; NAGORNAYA, Ye.F.; NAGORNIY, G.I.; TITOVA, T.P.

Adsorption properties of Gynyl' argillites. Trudy DVFAN SSSR.
Ser.khim. no.7:18-25 '65.

(MIRA 18:12)

L 46946-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD/HW

ACC NR: AT6030229

SOURCE CODE: UR/2776/66/000/049/0116/0124

AUTHOR: Yakovleva, Ye. F.; Bogomolova, G. P.; Belyayeva, V. A.

55
B+1

ORG: none

TITLE: Phase analysis of EP164 and EI725 steels, and EI893 alloy

SOURCE: Msocow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 49, 1966. Novyye metody ispytaniy metallov; khimicheskiy kontrol' v metallurgii (New methods in the analysis of metals; chemical control in metallurgy) 116-124

TOPIC TAGS: phase analysis, heat resistant steel, nickel chromium steel, nickel chromium alloy, titanium containing alloy, tungsten containing alloy, aluminum containing alloy/EP164 nickel chromium steel, EP725 nickel chromium steel, EI893 nickel base alloy

ABSTRACT: A method of phase analysis of EP164 and EI725 nickel-chromium steels, and EI893 nickel-base alloy, (see Fig. 1) has been developed. In EI893 alloy, 18% of V'-phase was isolated after aging for 15,000 hr at 800C and about 20% of the same phase was isolated after aging for 20,000 hr at 750C. In both cases, significant

Card 1/2

L 109Lo-36

ACC NR: AT6030229

Table I.

Steel or Alloy	Chemical composition, %										
	C	Si	Mn	Cr	Ni	Al	Ti	W	Mo	Ce	B
EI893	0,08	0,50	0,50	15,00	Base	1,20	1,20	8,00	3,50	0,025	0,01
	—	—	—	17,00	—	1,60	1,60	10,00	5,00	—	—
EP164	0,08	0,50	0,50	14,00	22,00	—	1,40	4,00	—	0,025	—
	—	—	1,00	16,00	25,00	—	1,80	5,00	—	—	—
EI725	0,08	0,50	0,50	14,00	36,00	—	1,40	4,00	—	0,025	0,005
	—	—	1,00	16,00	38,00	—	1,90	5,00	—	—	—

quantities of Ti(C, N) were found, but no traces of Me₂W-base Laves phase were detected. Orig. art. has: 3 figures and 5 tables. [TD]

SUB CODE: 11, / SUBM DATE: none/ ORIG REF: 002

Card 2/2 afs

BELYAYEVA, V. A.

Dissertation: "Importance of Succulent Plant Fodder (Vegetables, Greens)
in the Feeding of Mink." Cand Biol Sci, Moscow Fur and Pelt Inst, 10 May 54.
Vechernyaya Moskva, Moscow, 2 May 54.

SO: SUM 284, 26 Nov 1954

VYSHCHERAN, Aleksandr Georgiyevich; MEL'MAN, Mikhail Yevdokimovich;
BELYAYEVA, V.A., redaktor; SUDAK, D.M., tekhnicheskiy re-
daktor; MEDRISH, D.M., tekhnicheskiy redaktor.

[Feed products; a commercial guide] Tovarevedenie predovol'-
stvennykh tovarov; uchebnik dlia shkol tergevoze uchenichestva.
Moskva, Gos.izd-vo tergevoi lit-ry, 1955. 380 p. (MIRA 9:5)
(Feed)

02-17-87 V.A., 2/8

IKHIMOV, G.S., professor, redaktor; SPERANSKIY, V.G., professor, redaktor;
BELYAYEVA, V.A., redaktor; NAZAROV, B.A., redaktor; SUDAK, D.M.,
~~tekhnicheskii~~ redaktor.

[Commodity expert's manual of food products] Spravochnik tovaroveda
prodovol'stvennykh tovarov. Moskva, Gos.izd-vo trgovoi lit-ry.
Pt.2 [Milk and milk products. Edible fats and mayonnaise. Eggs and
egg products. Starch, sugar, honey. Confectionery. Alcoholic and
non-Alcoholic beverages. Tea and coffee. Spices, salt, tobacco.
Meat and meat products. Fish, fish products] Moloko i molochnye
tovary. Pishchevye shiry i maionez. Iaitsa i iaichnye tovary.
Krakmal, sakhar, med. Konditerskie tovary. Alkogol'nye i bezal-
kogol'nye napitki. Chai i kofe. Prianosti, sol', tabak. Miasi i
miasnye tovary. Ryba, rybnye tovary. 1955. 555 p. (MLRA 8:11)
(Food)

BELYAYEVA, Valentina Aleksandrovna; DEMENT'YEVA, M.L., redaktor; MEDRISH,
D.H., tekhnicheskii redaktor

[Home use of corn in foreign countries] Pishchevoe ispol'sovanie
kukuruzy v zarubeshnykh stranakh. Moskva, Gos. izd-vo torgovoi
lit-ry, 1956. 103 p. (MLRA 9:9)
(Corn(Maize))

BELAYEVA, V.A.

CHISTYAKOV, Fedor Maksimovich; MUDRETSOVA-VISS, Klavdiya Alekseyevna;
BELAYEVA, V.A., redaktor; SUDAK, D.M., tekhnicheskij redaktor.

[Microbiology] Mikrobiologiya. Moskva, Gos.izd-vo trgovoi lit-
ry, 1957. 256 p. (MIRA 10:6)
(Microbiology)

Handwritten: 13757 100
RUKOSUYEV, Andrey Nikolayevich; BELYAYEVA, V.A., redaktor; MEDRISH, D.M.,
tekhnicheskij redaktor

[Flour and groats; chemistry and commercial guide] Khimija i tova-
rovedenie muki i krupy. Moskva, Gos. izd-vo torgovoi lit-ry, 1957.
379 p. (MIRA 10:4)

(Meal)

KURBATOVA, R.A.; BELYAYEVA, V.A.

Procreative function of women after conservative myomectomy.
Kaz. med. zhur. no.2:60-61 Mr-Apr'63 (MIRA 16:11)

1. Otdeleniye operativnoy ginekologii (zav. - prof. M.V.
Dubnov) Instituta akusherstva i ginekologii AMN SSSR.

*→

BELYAYEVA, V.B.

TMD for controlling anthracnose of cucumber in greenhouses.

Zashch. rast. ot vred. i bol. 6 no.11:32 N '61.

(MIRA 16:4)

1. Nauchno-issledovatel'skiy institut ovoshchnogo khozyaystva,
st. Perlovskaya, Moskovskoy obl.

(Cucumber---Diseases and pests)

(Anthracnose) (Disulfide)

AEDC(a)/AS(mp)-2 RM/MLK

FC-1/PP-1/PO-1 AEDC(b)/SSP(a)/

ACCESSION NR: AT4048192

S/0000/64/000/000/1109/0115

AUTHOR: Baranova, V. G., Pankov, A. G., Khripin, E. G., Glazy*rina, R. V.,
Belyayeva, V. D., Obeshchalova, N. V., Dolgova, N. A., Kravzeva, M. F.,
Mishina, A. V., Ivoylova, M. A.

TITLE: The use of gas chromatography in the production of monomers for synthetic rubber

SOURCE: Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po gazovoy khromatografii. 2d, Moscow, 1962. Gazovaya khromatografiya (Gas chromatography); trudy* konferentsii. Moscow, Izd-vo Nauka, 1964, 109-115

TOPIC TAGS: gas chromatography, monomer production, two-stage chromatography, integral volume detector, katharometer, hexene demethylation, synthetic rubber, isopentane dehydration, flame ionization detector, isoprene polymerization

ABSTRACT: This is a survey of applied and applicable methods for chromatographic analysis. For example, two-stage chromatography for contact separation of the following components is described: H_2 , $N_2 + O_2$, CH_4 , C_2H_6 , C_3H_8 , C_4H_{10} , C_4H_8 and C_4H_6 . Integral volume detectors with autorecorders are applicable where no very low concentrations are involved (e.g. the mixture from the catalytic dehydration of isopentane).

Card 1/3

2

L 14958-55

ACCESSION NR: AT4048192

Chromatographic equipment with a katharometer is indicated for substances with a boiling point above 40-45C, those which dissolve easily in alkali or where low concentrations (less than 1%) have to be determined. This equipment is described and illustrated (chromatographic separation of complex mixtures from hexene demethylation, or of piperylene in isoprene concentrate). The sensitivity threshold may be increased by using a thermo-chemical monitor (from the Kh-2M apparatus). Standard calibration with an artificial mixture is required for this equipment. The calibration coefficients were found to be constant for considerable variations of concentration and some modification of test conditions. This set-up was also used to determine admixtures of butylenes and methyl-ethyl ether in divinyl of high purity and those of n-butylene in isobutylene. The sensitivity of gas chromatography may be increased by concentration of impurities to a degree where they can be detected, or by increasing the sensitivity of the detector. A flame-ionization detector has been used at the NIMSK. This considerably facilitates control of product purity and makes possible determination of the basic polymerization centers; thus, e.g., cyclopentadiene was determined as one of the centers of catalytic isoprene polymerization, appearing as early as the degeneration stage. Orig. art. has: 2 tables and 4 figures.

ASSOCIATION: None

Card

2/3

Submitted: 16-11-64

SHEKHTER, I.A., professor; BELYAYEVA, V.F.

Results of angiocardiology in the diagnosis of congenital heart defects. Vest. rent. i rad. no.2:62-67 Mr-Apr '55. (MIRA 8:5)

1. Iz rentgenodiagnosticheskogo otdela (zav. prof. I.A.Shekhter) Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii i radiologii imeni V.M.Molotova (dir. I.G.Iagunova).

(ANGIOGRAPHY,

angiocardiology, diag. of congen. cardiovasc. defects)

(CARDIOVASCULAR SYSTEM, radiography,

angiocardiology, diag. of congen. cardiovasc. defects)

(CARDIOVASCULAR DEFECTS, CONGENITAL, diagnosis,

angiocardiology)

Belyayeva, V.F. EXCERPTA MEDICA Sec 15 Vol. 10/11 Chest Diseases Nov 57

2703. ZODIEV V. V. and BELYAYEVA V. F. Radiodiagn. Dept. of Roentgenol. and Radiol. Inst., Moscow. *The problem of recognition of myocardial infarction (Russian text) VESTN. RENTGENOL. RADIODIOL. 1956, 4 (11-17) Tables 3 Illus. 8

150 cases of myocardial infarction were investigated by means of roentgenkymography. In 109 cases ECG and roentgenkymographic results coincided. By means of roentgenkymography the infarcts of the anterolateral wall of the left ventricle are found more often and are defined more easily than those of the posterior wall. The appearances of an infarct depend on its extent, depth and stage of repair. In the stage of formation of scar tissue frequently deformed crenations of varying amplitude are seen. In the stage of consolidation of the scar tissue, when the whole thickness of the myocardial wall has lost its function, paradoxical movements of the segment involved are seen (outwards protrusion in systole and invagination in diastole), proving the formation of an aneurysm. On the basis of many years of observation it is stated that normal function is never completely restored in the area of the infarct.

Nevskaya - Moscow (XIV, 15)

BELYAYEVA, V. F., Candidate Med Sci (diss) -- "The significance of multi-aperture roentgeno-kymography (continous and graduated) in the diagnosis of limited injuries to the myocardium". Moscow, 1959. 15 pp (State Sci Res Roentgenological-Radiological Inst of the Min Health RSFSR), 150 copies (KL, No 25, 1959, 139)

BELYAYEVA, V.F.

Significance of multistage radiokymography in the diagnosis of
limited myocardial diseases. Trudy TSentr. nauch.-issl. inst.
rentg. i rad. 10:97-101 '59. (MIRA 12:9)
(HEART--RADIOGRAPHY)

ZODIYEV, V.V., prof.; YAKHNICH, I.M., prof.; BELYAYEVA, V.F., nauchnyy
sotrudnik; TESLYA, T.A., nauchnyy sotrudnik

Clinical roentgenological changes in the cardiovascular system
due to ionizing radiation. Vest. rent. i rad. 35 no. 5:24-29
My-Je '60. (MIRA 14:2)

1. Iz rentgenodiagnosticheskogo otdela (zav. - prof. I.A.
Shekhter) Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-
radiologicheskogo instituta Ministerstva zdravookhraneniya
RSFSR (direktor - doktor med. nauk I.G. Lagunova).
(CARDIOVASCULAR SYSTEM) (RADIATION—PHYSIOLOGICAL EFFECT)

ZODIYEV, V.V., prof. (Moskva, G-270, 3-ya Frunzenskaya ul., d.4, kv.19);
BELYAYEVA, V.F., kand.med.nauk; BUKHMAN, A.I.; RABKIN, I.Kh.

X-ray diagnosis of aortic aneurysms. Vest.rent.i rad. 36 no.3:26-31
My-Je '61. (MIRA 14:7)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-radiologičeskogo instituta Ministerstva zdravookhraneniya RSFSR (dir. - prof. I.G.Lagunova.), Gospital'noy khirurgicheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta (zav. kafedroy - deystvitel'nyy chlen AMN SSSR prof. B.V.Petrovskiy) i Moskovskoy gorodskoy polikliniki No.51 (glavnyy vrach Z.S.Rykhlova).
(AORTIC ANEURYSMS)

ZARETSKIY, Vasiliy Vasil'yevich; BELYAYEVA, V.F., red.; PETROVA,
N.K., tekhn. red.

[Electrokymography] Elektrokimografii. Moskva, Medgiz,
1963. 290 p. (MIRA 16:11)
(Electrokymography)

BELYAYEVA, V.I., kand.istorich.nauk, dotsent

Struggling for the fulfillment of the seven-year plan ahead
of time. Tekst.prom. 23 no.5:43-48 My '63. (MIRA 16:5)

1. Zaveduyushchiy kafedroy marksizma-leninizma Vsesoyuznogo
zaochnogo instituta tekstil'noy i legkoy promyshlennosti (VZITLP).
(Moscow+Textile industry) (Socialist competition)

БЕЛЫЯЕВА, В. К.

Subject : USSR/Chemistry AID P - 1570
Card 1/1 Pub. 119 - 5/5
Authors : D. I. Ryabchikov and V. K. Belyayeva (Moscow)
Title : Methods for determination of humidity
Periodical : Usp. khim., 24, no.2, 240-248, 1955
Abstract : Methods of direct and indirect determination of humidity are reviewed, such as distillation, drying in a drying oven or desiccator, heating with infrared rays, and the gasometric and hydride methods. Two tables, 5 sketches, 78 references (23 Russian: 1908-1954)
Institution: None
Submitted : No date

N. I. Verwaat

Use of phytic acid in the analytical chemistry of thorium.
 D. I. Ryabchikov, V. K. Il'yina, and A. N. Kimakov
 (V. I. Vernadsky Inst. Geochem. and Anal. Chem., Mos-
 cow). *Zhur. Anal. Khim.* 11, 633-67 (1956). Phytic acid
 pptd. quite a few elements but its selectivity can be ad-
 justed by controlling the pH. Ph. sic acid pptd. Th in wide
 range of HNO₃ concn. The ppt. was unaffected by a 5-fold
 excess of phytic acid. After calcining at 1100°, the compn. of
 the ppt. was ThO₂·P₂O₅. To perfect a method for detn. of Th
 in monazite concentrates the effect of elements usually en-
 countered in monazite was studied. By pptg. at 0.1N HNO₃,
 Th was sepd. from most of the accompanying elements in-
 cluding the rare earths. The elements that copptd. with Th
 under these conditions were Zr, Ti, U, and Fe. These were
 combined with oxalic acid to give complexes, thus preventing
 their pptn. A procedure for the analysis of monazite is
 given. The accuracy of the method is ±0.1% abs.

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Institute geokhimiya i mineralozhishchey
 khimii im. V.I. Vernadskogo (Khimicheskaya shkola
 SSSR) Moskva

6-14
/ 3000 Use of physical field in the analytical chemistry
of elements of the periodic table of elements

1977

1977

BELYAYEVA, V. K., YERMAKOV, A. M., and MAROV, I. N.

"Possibilities of using anionites for the calculation of the constants of the stability of charged ions."

report presented at The Use of Radioactive Isotopes in Analytical Chemistry, Conference in Moscow, 2-4 Dec 1957
Vestnik Ak Nauk SSSR, 1958, No. 2, (author Rodin, S. S.)

YERMAKOV, A.N.; BELYAYEVA, V.K.; MAROV, I.N.

Anion-exchange study of complex formation of zirconium and hafnium
with oxalate ions. Trudy kom.anal.khim. 9:170-178 '58.

(MIRA 11:11)

(Zirconium oxalate) (Hafnium oxalate) (Complex compounds)

5(4)

SOV/78-4-2-39/40

AUTHORS: Yermakov, A. N., Belyayeva, V. K., Marov, I. N., Chmutova, M. K.

TITLE: On the Use of Ion Exchange for Investigating the Composition of the Complex Oxalates of Pu(IV), Zr, and Hf (O primenenii ionnogo obmena k izucheniyu sostava kompleksnykh oksalatov Pu(IV), Zr i Hf)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 2, pp 493-496 (USSR)

ABSTRACT: The complex compounds of plutonium, zirconium, and hafnium were investigated by means of the ion-exchange method by oxalic acid. The following formulas of the complexes were found: $[\text{Pu}(\text{C}_2\text{O}_4)_5]^{6-}$, $[\text{Zr}(\text{C}_2\text{O}_4)_5]^{6-}$, and $[\text{Hf}(\text{C}_2\text{O}_4)_5]^{6-}$. These complexes are formed if oxalate ions in the solution are in excess at pH 5.8-6.2. The distribution coefficients and the exchange constants of the three elements in these compounds are almost equal. The coordination number of the metal in oxalate complexes of plutonium (IV), zirconium, and hafnium is probably 6. There are 1 figure, 3 tables, and 13 references, 10 of which are Soviet.

Card 1/2

5(2)

AUTHORS:

Ryabchikov, D. I., Yermakov, A. N., Belyayeva, V. K., Marov, I.N.

SOV/78-4-8-18/43

TITLE:

An Investigation of the Complex Formations of Zirconium and Hafnium With Tartaric Acid by Means of the Ion Exchange Method (Izucheniye kompleksobrazovaniya tsirkoniya i gafniya s vinnoy kislotoy metodom ionnogo obmena)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 8, pp 1814-1826 (USSR)

ABSTRACT:

The investigation of the complex formations in aqueous solutions of zirconium and hafnium is rendered difficult by a strong tendency of these elements towards hydrolysis and polymerization. Therefore, the usual physico-chemical methods cannot be applied. For this reason the ion exchange method, the investigation of the equilibrium distribution of an element between two phases of a heterogeneous system are suggested. This relatively new method is described in detail on the basis of publication data. The authors used $Zr^{95} + Nb^{95}$ for their own experiments. In this case the softer β -radiation of Nb^{95} was absorbed by an aluminum filter, moreover Hf^{181} and the cation exchanger KU-2.

Card 1/2

An Investigation of the Complex Formations of Zirconium SOV/78-4-8-18/43
and Hafnium With Tartaric Acid by Means of the Ion Exchange Method

The solution was buffered with NaClO_4 . By means of experiments it was found that in the case of a concentration of 2 - 1.3 mol hydrogen ions per liter no hydrolysis or polymerization takes place. The following is assumed to be the probable reaction of the complex formation of Zr and Hf with tartaric acid: $\text{Me}^{4+} + \text{H}_2\text{tart} \rightleftharpoons \text{MeH}_{2-n}\text{tart}^{4-n} + n\text{H}^+$. The distribution coefficient was computed and its dependence on the ratio $\frac{v}{m}$ (Table 3 v = volume of the solution, m = weighed portion of the cation exchanger) was determined. Moreover, the number of hydrogen ions released from tartaric acid in the complex formation was determined (Fig 5). The complex compounds of hafnium are more stable than those of zirconium (Tables 3, 4). A sorption of ions of the type MeHtart^{3+} or Metart^{2+} was not observed. Probably they do not take place due to steric factors or the weakening of the ionic charge in consequence of the linkage with the oxy groups of tartaric acid. There are 5 figures, 4 tables, and 38 references, 10 of which are Soviet.
April 16, 1959

SUBMITTED:
Card 2/2

BEUYAYEVA, V.K.

PLANNED BOOK EXPLANATION 809/3445

Metody opredeleniya prikladnykh i chistykh metallakh (Methods of Determining Amounts in Pure Metals) Moscow, 1960, 311 p. (Series: Iss. Trudy, 12) 5,500 copies printed.

Resp. Eds.: A.P. Vinogradov, Academician, and D.I. Repnikova, Doctor of Chemical Sciences; Ed. of Publishing House: M.F. Volynski; Tech. Ed.: T.V. Polyakova. PURPOSE: This collection of articles is intended for chemists, metallurgists, and engineers.

CONTENTS: The articles describe methods for detecting and determining various admixtures and their traces in pure metals. Also discussed are many chemical, physicochemical, electrochemical, spectrochemical and luminescence methods of analyzing materials of high purity. The editors state that these methods have been used in the USSR for the detection and determination of various admixtures in industrial and new raw materials, metals and alloys. The authors of the articles are from the Scientific Division. No personal titles are mentioned. References, mostly Soviet, accompany each article.

Milner, Sh.A., and I.K. Solodovnik. Analysis of Bismuth for Determining Admixtures 172

Krasn. I.G., A.G. Karbach, Ch. I. Poryvalov, V.M. Litvinov, and V.G. Molina. The Spectrometric Method of Determining Admixtures in Metallic Bismuth and Its Compounds 179

Shigalov, S.I., and Ye.L. Golitsina. Determination of Small Quantities of Lead in Metallic Bismuth 187

Shigalov, S.I., and I.A. Serebren. Determination of Admixtures of Cadmium, Silver, and Gold in Various Bismuth Alloys by the Aid of Potassium Ions, Manganese, and Tellurium in Bismuth 191

Repnikova, D.I., and V.K. Beuyayeva. Determination of Small Quantities of Bismuth in Various Alloys 206

Beuyayeva, V.K., and V.K. Beuyayeva. Determination of Small Quantities of Bismuth in Various Alloys 221

Malyshev, D.P., and S.V. Blyuzer (deceased). Polarographic Determination of Copper Admixtures in Metallic Bismuth 228

Pillayappan, J.P., K.A. Vaidyan, and T.A. Subramaniam. Spectrometric Determination of Admixtures in Tungsten Compounds 227

Vopishnikov, S.Ye. Tolu. Blyuzer, and M.V. Anisimov. Methods of Spectral Determination of Cadmium, Antimony, Bismuth, Lead, and Tin in Tungsten and Its Alloys 236

Karbach, A.G., Z.N. Shapovalova, K.I. Sidorova-Avdeeva, and Sh.I. Poryvalov. Determination of Admixtures in Molybdenum and Its Compounds 235

Repnikova, D.I., T.V. Polyakova, and V.G. Molina. Method of Direct Determination of Lead, Cadmium, Bismuth, Antimony, and Tin in Molybdenum Alloys by the Aid of Oxidation-Reduction Potentiometry 265

Beuyayeva, V.K., V.K. Beuyayeva, and I.K. Solodovnik. Determination of Oxygen and Nitrogen in Molybdenum and its Compounds by the Vacuum-Fusion Method 281

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B004/B016

AUTHORS: Ryabchikov, D. I., Yermakov, A. N., Belyayeva, V. K., Marov, I. N.
 TITLE: Complex Formation of Zirconium and Hafnium With Some Hydroxy Acids
 PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 5, pp. 1051-1067

TEXT: The authors intended to investigate the stability of the complex compounds of Zr and Hf with various organic acids, and, in the case of differences in their stability, the development of a method of separating these two elements. G. A. Yevtikova took part in this investigation. The authors describe the reagents applied (tartaric acid, citric acid, malic acid, trihydroxy-glutaric acid, HClO_4 , $\text{ZrOCl}_2 \cdot 8\text{H}_2\text{O}$, $\text{HfOCl}_2 \cdot 8\text{H}_2\text{O}$, cation exchangers of the KU-2 type, anion exchangers of the EDE-10p type). Zr^{95} and Hf^{181} were used as tracers. Preliminary experiments indicated that dicarboxylic acids (glutaric, glutamic, succinic, malonic, maleic, and fumaric acid) do not form complexes with Zr or Hf, whereas the afore-mentioned hydroxy acids (and the mesoxalic acid) change the distribution of Zr and Hf even in strongly acid media by the formation of stable complexes. Tables 1-5 give the experimental data for the five hydroxy acids in the presence of 0.125, 0.5, 1, and 2 M HClO_4 , and the partition coefficients K_d as well as the separation factor $\alpha = \frac{K_{d,\text{Hf}}}{K_{d,\text{Zr}}}$.

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Complex Formation of Zirconium and Hafnium With Some
Hydroxy Acids

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Figs. 1-5 show the change of K_d in dependence on the concentration of the organic acid. K_{dZr} is always smaller than K_{dHf} . For citric acid, $\alpha = 4$. The separation of Zr and Hf by means of KU-2 cation exchangers by elution with 1M HClO₄ and 0.0256 M citric acid is based thereupon, as suggested and described by the authors. Fig. 6 shows the yield curves of the chromatographically separated complexes of Zr and Hf, which were identified by measuring their peaks by means of a γ -spectrometer (Fig. 7). This was carried out by G. A. Chernov. Figs. 8-11 show the dependence of $1/K_d$ on the concentration of the complexing substance. The authors determined the number of coordinate groups for the Zr and Hf complexes with the organic acids (Figs. 12-15). Table 6 presents the data for the adsorption of Hf onto the EDE-10p anion exchanger. The formation coefficients of the complexes are given in Table 7. The authors discuss the structure of the complex compounds. As may be seen from Table 8, dicarboxylic acids (succinic acid) do not form complex compounds, hydroxy-dicarboxylic acids, however, do. This is indicative of the participation of both carboxyl and hydroxyl groups in the complex formation. The stability of the complex compounds of Zr and Hf decreases in the following order: Oxalic acid > mesoxalic acid > trihydroxy-glutaric acid > citric acid > lactic acid > tartaric acid > malic acid. There are 15 figures, 8 tables, and 3 Soviet references.

SUBMITTED:
Card 2/2

July 30, 1959

S/078/60/005/012/016/016
B017/B064AUTHORS: Marov, I. N., Belyayeva, V. K., Yermakov, A. N., and
Ryabchikov, D. I. ✓ ✓TITLE: Chromatographic Separation of Zirconium and HafniumPERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 12,
pp. 2844-2847

TEXT: A new method of separating zirconium and hafnium by means of the KY-2 (KU-2) cationite was developed. A solution of 0.025 mole citric acid and 1 mole perchloric acid, or 1 mole nitric acid, was used as desorbent. The rate of desorption is 0.5 - 0.6 ml/min·cm². Zirconium and hafnium were radiometrically analyzed in the extracts with the isotopes Zr⁹⁵ and Hf¹⁸¹. Fig. 1 shows the curves for the chromatographic distribution of Zr⁹⁵ (+Nb⁹⁵) and Hf. It was found that with an increased loading of the cationite the value V_{max} rises, and the ratio $V_{max}^{Hf}/V_{max}^{Zr}$ decreases. This effect is explained by the formation of polynuclear zirconium complexes, and the effect of the large zirconium

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S/078/62/007/001/001/005
B119/B110

AUTHORS: Ryabchikov, D. I., Yermakov, A. N., Belyayeva, V. K., Marov, I. N., Yao K'o-min

TITLE: Application of ion exchange for studying the complex formation of zirconium and hafnium with sulfate ion

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 1, 1962, 69-75

TEXT: The experimental part of the present paper was carried out by the method described in Refs. 8 and 9 (Ref. 8: D. I. Ryabchikov, A. N. Yermakov, V. K. Belyayeva, I. N. Marov, Zh. neorgan. khimii, 4, 1814 (1959); Ref. 9: The same authors, Zh. neorgan. khimii, 5, 1051 (1960)). Anion exchanger 3A3-107 (EDE-10P) and cation exchanger KV-2 (KU-2) were used. The complex formation of Zr and Hf with sulfuric acid was examined by cation exchange in chloric-acid solution with a hydrogen-ion concentration of $[H^+] = 2.33$ moles/l. At sulfuric-acid concentrations of up to 0.1 mole/l, three complexes form with Zr, which correspond to the ratios of metal : $H_2SO_4 = 1 : 1, 1 : 2, \text{ and } 1 : 3$. Hf forms two complexes corresponding to metal : $H_2SO_4 = 1 : 1$ and $1 : 2$. The equilibrium

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Application of ion exchange ...

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constants of the complexing reactions were calculated by methods of Fronaeus and Schubert.

$$K_j = \frac{[M(SO_4)_j]^{4-2j} [H^+]^j}{[M^{4+}] [HSO_4^-]^j} \quad \text{Values for Zr: } K_1 = 361 \pm 12,$$

$$K_2 = (2.17 \pm 0.15) \cdot 10^3, \quad K_3 = (4.06 \pm 1.2) \cdot 10^5; \quad \text{for Hf: } K_1 = 130 \pm 6.$$

$K_2 = (2.09 \pm 0.1) \cdot 10^3$. It has been found that the complex $M(SO_4)^{2+}$ is absorbed by the cation exchanger KY-2 (KU-2) within the limits of error. Mention is made of papers by V. F. Saksin (Ref. 4: Nauchn. dokl. vysshey shkoly. Khimiya i khim. tekhnologiya no. 1.75 (1959)), A. K. Kirakosyan; I. V. Tananayev (Ref. 5: Zh. neorgan. khimii, 4, 852 (1959)), Ye. P. Mayorova, V. V. Fomin (Ref. 11: Zh. neorgan. khimii, 3, 1937 (1958)). There are 6 figures, 4 tables, and 12 references: 5 Soviet and 7 non-Soviet. The four most recent references to English-language publications read as follows: E. L. Zebroski, H. W. Alter, F. K. Neumann, J. Amer. Chem. Soc., 76, 5646 (1954); R. A. Day, R. N. Wilhite, F. D. Hamolton, J.

Card 2/3

Application of ion exchange ...

S/078/62/007/001/001/005
B119/B110

Amer. Chem. Soc., 77, 3180 (1955); J. C. Sullivan, J. C. Hindman. J. Amer.
Chem. Soc., 76, 593 (1954); B. A. I. Lister. J. Chem. Soc. (11), 3123
(1951).

SUBMITTED: January 3, 1961



Card 3/3

L 13505-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD/JG
ACCESSION NR: AP3003474 S/0078/63/008/007/1623/1633

AUTHOR: Yermakov, A. N.; Marov, I. N.; Belyayeva, V. K.

TITLE: Properties of aqueous solutions of zirconium oxychloride^m

63
56

SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 7, 1963, 1623-1633

TOPIC TAGS: zirconium, zirconium oxychloride, potentiometry, cryoscopy

ABSTRACT: The authors studied the condition of zirconium in aqueous solutions of $ZrOCl_2 \cdot 8H_2O$ by potentiometric, cryoscopic, and electric conductivity methods, and by measuring the diffusion rate. Purpose of study was to obtain information concerning hydrolysis and degree of polymerization of this compound. $ZrOCl_2 \cdot 8H_2O$, thrice recrystallized from a commercial chloride solution, was used for the study. The composition of the compound corresponded precisely to the formula. The solutions to be tested were prepared by dissolving a weighed portion of the salt in distilled water which was chilled to 3-4°. The solutions were kept at this temperature for 24 hours. In all cases, each experiment was repeated no less than two times. Authors determined the activity of hydrochloric acid in zirconium oxychloride solutions at 0.2, 10, and 25° in concentration ranges of 0.006-0.38 mol/l. The drops in the freezing points of the zirconium oxychloride solutions were measured in relation to salt concentration

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