[illegible], I.G.

[illegible] I V, I.G. Pavel Delirradev's Rila (Rila Mountains) [illegible]

Vol. [illegible], No. [illegible], 1956.
GEOGRAPHIA
GEOGRAPHY [illegible]
Sofiia, Bulgaria

So: [illegible] Accessions, Vol. [illegible], No. 2, February 1957

MIKHAILOV, TS.

The Bahrein Islands. p. 14.
(Geografiia, Vol. 7, no. 3, 1957. Sofiia, Bulgaria)

SO: Monthly list of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

MIKHAILOV, Tson'o, ikonomist;

Labor wages depending on the quality of production. Tekstilna prom 12 no.5:34-37 '63.

1. DIP "Nataliia", Stara Zagora.

MIKHAILOV, Tsv.; IVANOV, I.

Geomorphologic division of the region at the foot of Pirin Mountains and the valley of the Struma River between the Slaska River and Melnishka River in view of the appearance of erosion. Izv Geogr Inst BAN 7:73-89 '63.

USSR - AUSTRIA

SECRET
rpt Oct. 3, 1951

Following newspapermen applied through Sov headquarters here Oct. 3 for visit to Salzburg Oct. 4-8, 1951 upon invitation Austrian Peace Council: P-1

MIKHAILOV, Vladimir - from Pravda with passport valid for departure from USSR July 19 to Nov. 1;

BESYMENSKY, Lev A. - passport valid departure USSR for East Germany and Austria & July 21 to Sept. 1, 1951.

T-1215, Vienna, October 3, 1951

jt/ij 11/5/51

USSR-AUSTRIA UNCLASSIFIED P-1
rpt Dec. 17, 1951

MIKHAILOV, V.

Pravda special correspondent, Vienna/wrote an article entitled "Yankee in Austria".

Pravda, December 17, 1951.

mcs 2/20/52

EAST GERMANY

UNCLASSIFIED
July 15, 1957

NAUMOV, Vladimir
Correspondent of "Pravda"
born 1922 in Kalinin, Service Passport No. 130789

The above-mentioned correspondent of "PRAVDA" intends to travel to Bonn where he will replace accredited correspondent NAOUMOV for a period of one month.

USBER
April 11, 1957

USBER/EAD

ACC NR: AP6034786 SOURCE CODE: PO/0045/66/030/002/0237/0250

AUTHOR: Mikhailov, I. N.; Jolos, R. V.

ORG: Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Moscow

TITLE: A method for solving the nucleon-phonon interaction problem

SOURCE: Acta physica polonica, v. 30, no. 2, 1966, 237-250

TOPIC TAGS: nucleus, spheric nucleus, nucleon, phonon, nucleon phonon interaction, fermion, Schrodinger equation, fermion state, excitation energy resonance, Tailor coefficient

ABSTRACT: A method for solving the Schrodinger equation for fermions interacting with phonons in the case of a sufficiently small number of different fermion states is suggested. The problem of one type of scalar phonon coupling the orbitals of two energy levels in a spheric nucleus is used as an example. Generating functions of a complex variable z were introduced, and the Taylor coefficients of the functions were related to the probability amplitudes of the n-phonon excitation in an eigenstate of the system. The solution of the Schrodinger equation is

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ACC NR: AP6034786

obtained by finding the integrals of a system of first-order differential equations, which are given by entire functions. Such solutions are found within the limits of a weak and strong coupling, and in the special case of resonance between the phonon and nucleon excitation energies. The authors thank their colleagues at JINR for their helpful criticism, and particularly L. Zastavenko and E. B. Balbutzev. The author Mikhailov expresses his gratitude to J. Bang (N. Bohr's Institute, Denmark) for the numerous discussions which helped to lay the groundwork for this study. Orig. art. has: 69 formulas. [Based on authors' abstract] [DR]

SUB CODE: 20/ SUBM DATE: 16Feb66/ ORIG REF: 004/ OTH REF: 008/

Card 2/2

MIKHAILOV, V.

Roentgenographic picture of the heart and mediastinum in pulmonary emphysema. Izv. med. inst., Sofia 1 no. 6-7:179-192 1952. (CLML 24:2)

1. Professor Doctor. 2. Institute of General Roentgenology (Director -- Prof. Dr. V. Mikhaylov) of Iv. P. Pavlov Medical Academy, Plovdiv.

MIKHAILOV, V.; POPMIKHAILOV, D.

Roentgenologic differential diagnosis of defects of the greater curvature of the stomach. Suvrem. med., Sofia 5 no.6:52-64 1954.

1. Iz Katedrata po rentgenologiia pri Med. akademiia I.P.Pavlov, Plovdiv. Zav.: prof. V.Mikhailov. I Katedrata po rentgenologiia pri Med. akademiia Vulko Chervenkov, Sofiia. Zav.: prof. A.Nikolaev.
(STOMACH, diseases,
differ. x-ray diag. of lesions of greater curvature)

MIKHAILOV, V.

Relation of chronic diseases of the appendix to hyperglycemic states with special reference to diabetes mellitus; preliminary communication. Suvrem.med., Sofia 6 no.1:47-51 1955.

1. Iz Katedrata po rentgenologiia pri Visshiia meditsinski institut I. P. Pavlov. Plovdiv (zaveszhdashch: prof. V. Mikhailov).

(APPENDIX, diseases,
appendico-hepatic synd. in diabetes mellitus)
(LIVER, diseases,
appendico-hepatic synd. in diabetes mellitus)
(DIABETES MELLITUS, complications,
appendico-hepatic synd.)

MIKHAILOV, Veselin, Prof.

Relation of chronic appendicitis of hyperglycemic conditions related to diabetes. Izv.med.inst.,Sofia 11-12:175-206 1955.

1. Katedra po rentgenologiia (zav.prof.Ves.Mikhailov) pri Meditsinskata akademiia I.P.Pavlov-Plovdiv.

(DIABETES MELLITUS, physiology.
relation to appendicitis)
(APPENDICITIS, physiology
relation to diabetes mellitus)

MIKHAILOV, Ves., Prof.; VLAKHOV, Kir.

Radiographic picture of diaphysial tuberculosis of long hollow bones. Suvrem. med., Sofia 7 no.7:40-46 1956.

1. Iz Katedrata po obshcha rentgenologiia pri VMI "I. P. Pavlov"-Plovdiv- (Zav. katedrata: prof. Ves. Mikhailov).
(TUBERCULOSIS, OSTEOARTICULAR, radiography
diaphysial, of long hollow bones)

MIKHAILOV, V., Prof.; VLAKHOV, K.; KARPAROV, M.

Tomographic examination of lung cancer. Suvrem. med., Sofia 7 no.10:115-124 1956.

1. Is Katedrata po obshcha rentgenologiia pri VMI I.P. Pavlov - Plovdiv (Zav. katedrata: prof. Ves. Mikhailov).
(LUNG NEOPLASMS, diag.
tomographic exam.)

MIKHAILOV, Ves., prof.; ZOGRAFOV, D.

Carbohydrate regulation disorders in carcinoma of the gastrointestinal tract. Izv. inst. klin. obsht. med. 4:365-374 '60.

(GASTROINTESTINAL SYSTEM neopl) (BLOOD SUGAR)

MIKHAILOV, Ves., prof.; ANDREEV, Vl.

Xeroderma pigmentosum in adults. Sovrem. med., Sofia 8 no.2:98-103 1957.

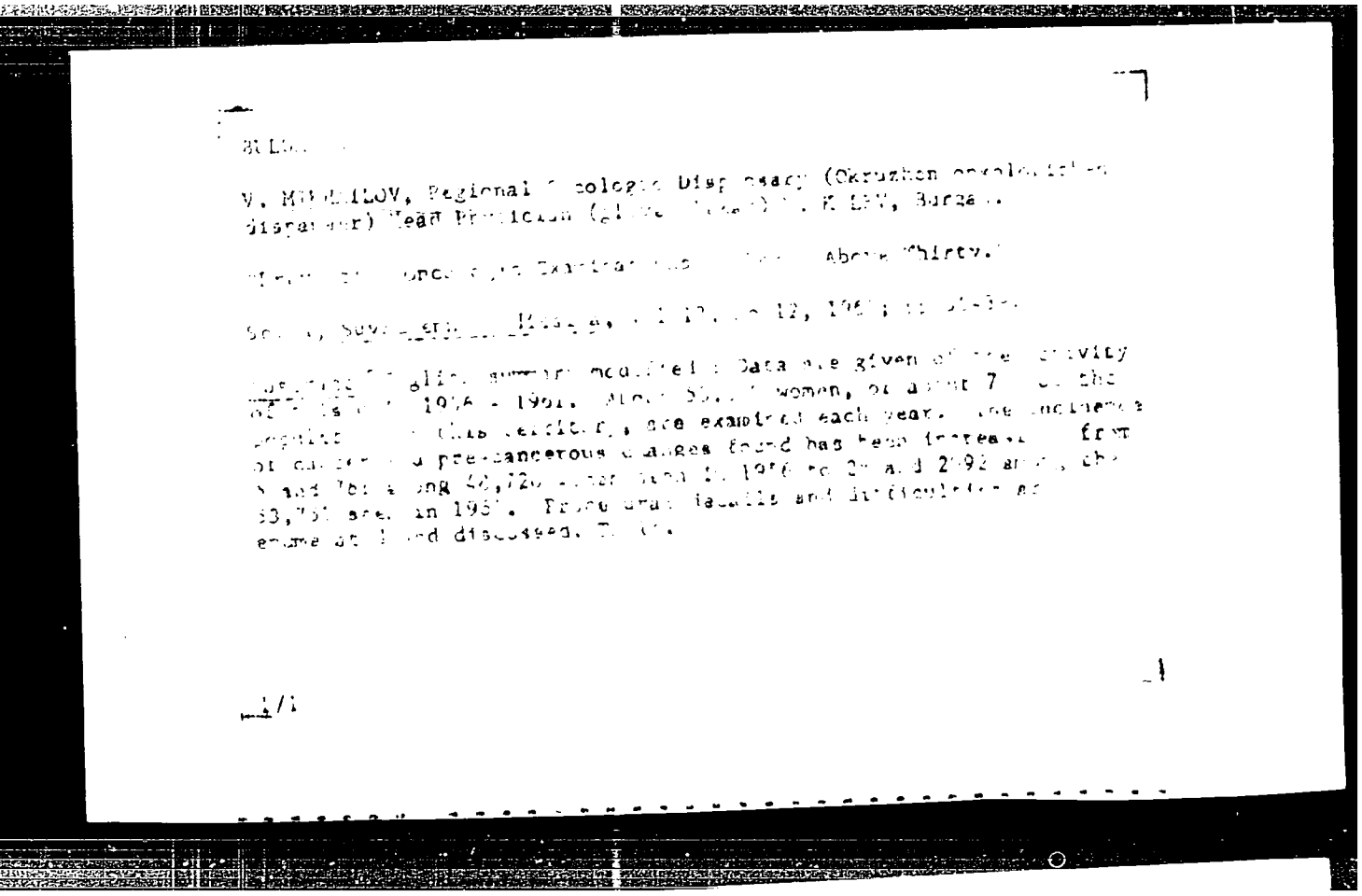
1. Iz Nauchnoizsledovatelskiia onkologichen institut -- Sofiia.
(XERODERMA PIGMENTOSUM, case reports,
(Bul))

MIKHAILOV, Ves.

MIKHAILOV, Ves.; RAICHEV, R.; IURUKOV, Kr.

Diagnostic difficulties in adenomyosis of the cervis uteri. Khirurgiia, Sofia 10 no.1:77-80 1957.

1. (Iz Nauchnoizsledovatelskiia onkologichen institut).
(ENDOMETRIOSIS, diagnosis
cervical adenomyosis, difficulties (Bul))



PANGAROV, N.; MIKHAILOVA, V.

Texture of electrolytically deposited tin. Izv Inst fiz khim 4:111-145 '54.

1. Institute of Physical Chemistry of the Bulgarian Academy of Sciences.

MIKHAILOV, V.; BOZDUGANOV, A.; TSANEV, K.

Investigations of chronic gamma-irradiation of the heart, the liver, and the kidneys. Neoplasma (Bratisl) 12 no.3:305-313 '65.

1. Postgraduate Institute of Medicine, Cancer Research Institute, Sofia, Bulgaria

NIKOLOV, Em., inzh.; SUBEV, P. inzh.; MIKHAILOV, Vl., inzh.

Standardized feeding units for metal-cutting tools. Mashinostroene 12 no.6:11-15 Je'63.

MIKHAILOV, VASILII VASILEVICH.

Projektowanie aparatow elektrycznych wysodiego napiecia. Tlum.: J. Elbaum, Pl Glowacke. (Ksiazka zatwierdzona do uzytku szkolnego w charakterze ksiazke pomocniczej.) wyd.2.

Warszawa, Poland, Panstwowe Wydawn. Technicze, 1955. 239 P.

Monthly List of East European Accessions (EEAI) LC. Vol. 8, no. 7, July 1959

Uncl.

TRENDAFELOV, D.; MIKHAILOVA, D.

Studies of the triple salt system of sodium, cadmium and ammonium nitrates. Nauch. tr. vissh. med. inst. Sofia 41 no.4:57-66 '62.

1. Predstavena ot dots. D. Trendafelov. (NITRATES) (SODIUM) (CADMIUM)

ESAULENKO, L.; PESHEVA, M., inzh.; MIKHAILOVA, E., inzh.

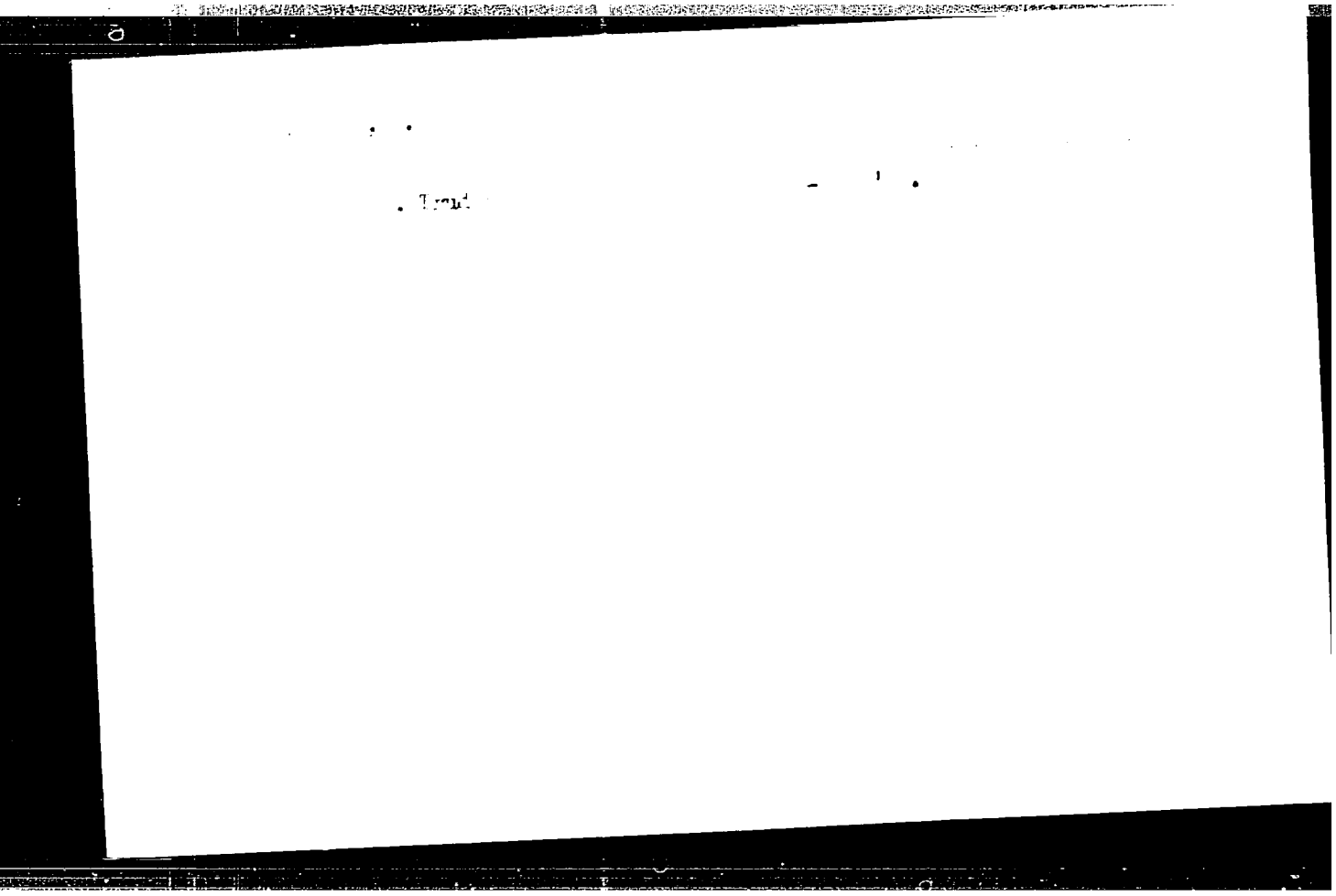
Bark of Solix viminalis as raw material for obtaining tanning extracts. Godishnik khim tekh 9 no.2:45-55 '62 [publ. '63].

MECHKARSKI, P., inzh.; STOIANOV, B., k.t.n.; MIKHAILOVA, E., inzh.

The projection and construction of railroad lines over the areas liable to subsidence due to mining. Stroitelstvo 9 no.6:14-16 N-D '62.

MIKHAILOVA, Ek. (Sofiia); SIMONOV, R. (Moskva)

Beginning of the Bulgarian mathematical terminology.
Mat i fiz Bulg 7 no. 1: 45-54 Ja-F '64.



MIKHAILOVA, I. IU.; NIKOLOVA, M.P.; STOIANOV, D.P.

Studies on the effect of some drugs on experimental atherosclerosis. Suvr. med. 16 no.11:667-673 '65.

1. Nauchno-izsledovatelski khimiko-farmatsevtichen institut (direktor - prof. L. Zheliaskov) i Nauchno-izsledovatelski institut po epidemiologiia i mikrobiologiia (direktor - St. Rangelova).

NEDELCHEV, L.; MIKHAILOVA, K.

Receiving tubes including low-power amplifiers. Radio i televiziia 12 no.3:93 '63.

MIKHAILOVA, Lazarina

Changes in the histological structure of the skin of crossbred fine-fleeced lambs raised at different levels of feeding. Izv Zhivotn nauki 1 no.2:57-70 '64.

1. Zootechnical Faculty of the G. Dimitrov Higher Agricultural Institute, Sofia.

Mihailova, Liljana[Mikhailova, Liliana]

Alburnus alburnus morphalacustris Heckel from Bulgaria.
Fragmenta Balk Skopje 4 no.20:157-168 '63.

1. Zoological Institute of Bulgarian Academy of Sciences.

MIKHAILOVA, L.

" Attenpts to influence the development of goldfish embryo, species Carassius auratus Linne, by magnesium chloride solution ($MgCl_2$). In Russian."

DOKLADY, Sofiia, Bulgaria, Vol. 11, no. 2, Mar. Apr. 1958.

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 7, Jun 59
Unclas

MIKHAILOVA, L.

"Influence of magnesium chloride ($MgCl_2$) on the postembryonic development and regeneration of the tail and fin in viviparous fish, Lebistes reticulatus P., family Poeciliidae. In German."

DOKLADY, Sofiia, Bulgaria, Vol. 11, no. 2, Mar./Apr. 1958.

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59
Unclas

MIKHAILOVA, L.

An interesting specimen of rainbow trout Salmo irideus Dibb. Izv biol med BAN 3 no.3:141-145 '59. (EEAI 10:4)

1. Zoologichna gradina pri BAN
(TROUT)
(SALMO IRIDEUS)

MIKHAILOVA, L., n. sutr.

Transformation of a young female fish of the species Lebistes reticulatus into a male. Priroda Bulg 10 no.5:80-82 S-O '61.

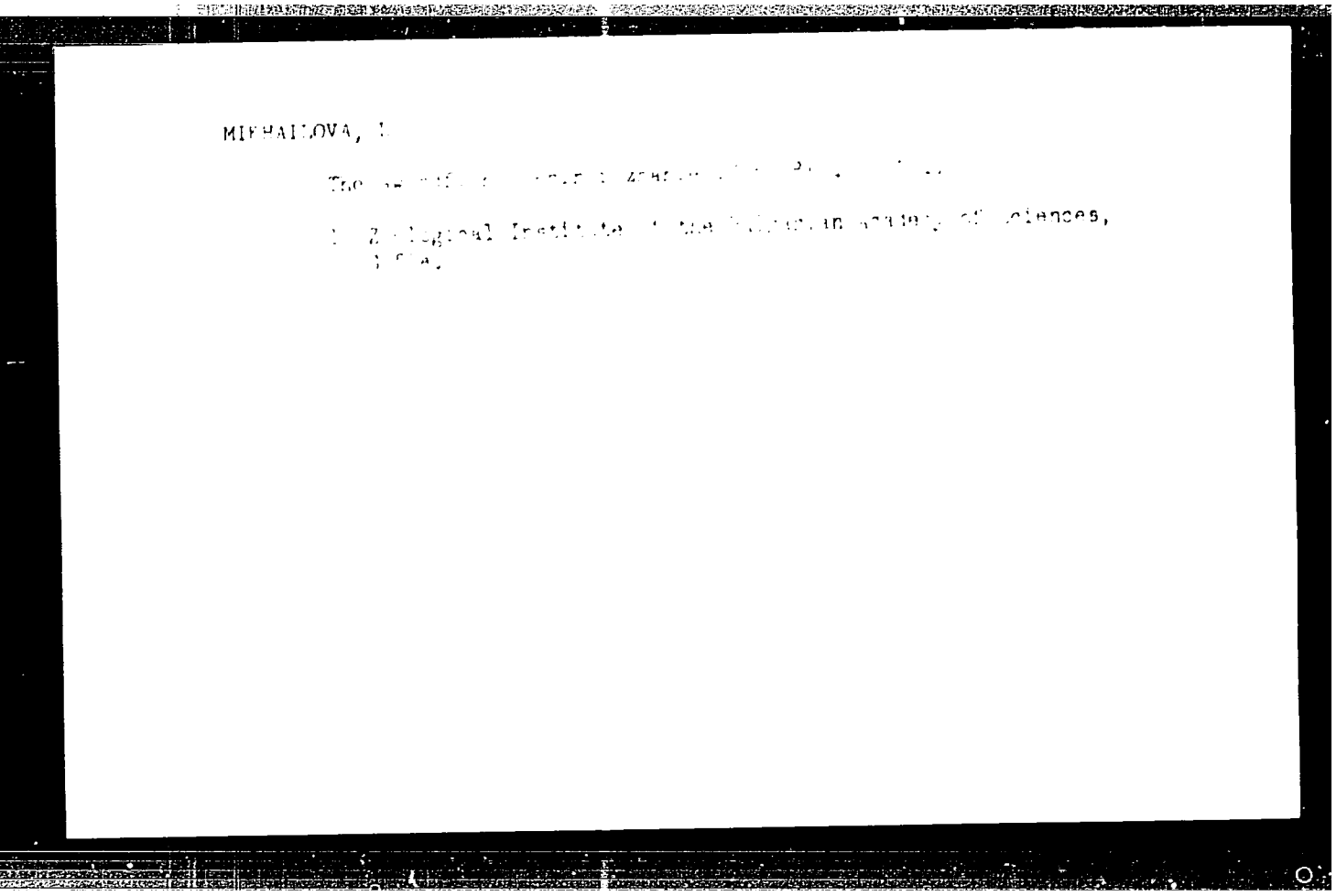
1. Zoologicheski institut pri BAN.

MIKHAILOVA, Liliana

The penguins. Prir i znanie 15 no.9:12-15 N '62.

MIKHAILOVA, L.

Air bladder in fishes. Prir i znanie 15 no.10:18-19 D '62.



MIKHAILOVA, I.

[illegible]

[illegible] Zoological Institute [illegible] Academy of Sciences, USSR.

MIKHAILOVA, Liliana

The lung and gill-breathing fish. Priroda i znanie [illegible]
19 S '64.

1. Zoological Institute of the Bulgarian Academy of Sciences.

MIKHAILOVA, Liliana

Biology of the river mullet (Leuciscus cephalus L.) in the Struma River. Izv Zool inst BAN 17:125-156 '64.

MIKHAILOVA, L

The sea lamprey. Prir i znanie 18 no.1:21-22 Ja '65.

ACC NR: AP7003900 SOURCE CODE: GE/0030/67/019/001/0429/0434

AUTHOR: Mikhailova, M.P.; Nasledov, D.N.; Slobodchikov, S.V.

ORG: A.F. Ioffe Physicotechnical Institute, Academy of Sciences of the USSR, Leningrad

TITLE: The effect of a magnetic field on illuminated InAs p-n junctions

SOURCE: Physica status solidi, v. 19, no. 1, 1967, 429-434

TOPIC TAGS: pn junction, magnetic field interference, photoelectric effect, photosensitivity, INDIUM COMPOUND, ARSENIDE, PHOTOELECTRO-MAGNETIC EFFECT

ABSTRACT: An investigation was made of the dependence of photoresponse variations on the magnetic field strength in unbiased and reverse-biased InAs p-n junctions. The specimens were illuminated along the p-n junction and on the p- or n-sides. A linear photoelectromagnetic (PEM) effect occurred on unbiased p-n junctions. With the application of a reverse bias to illuminated InAs p-n junctions, a complex variation of the PEM voltage depending on the magnetic field strength was observed. A linear inversion-free region in relatively weak fields was due to variations in the saturation current through a p-n junction in the magnetic field. A quadratic PEM voltage in strong magnetic fields was associated with the

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ACC NR: AP7003900

distortions of the paths of minority carriers resulting from the geometry of the contacts and the specimen and from the Hall field of thermal carriers. The drop and polarity reversal of the PEM voltage in strong magnetic fields can be related to the reduction in diffusion length of minority carriers and to an enlargement of the space-charge region in the p-n junction. The authors thank A. A. Grinberg for discussing the results and N. P. Esina and N. V. Zotova for preparing the p-n junctions. [JA]

SUB CODE: 20/ SUBM DATE: 29Jul66/ ORIG REF: 004/ OTH REF: 002/
ATD PRESS: 5114

Card 2/2

MIKHAILOVA, P.

Studies of the percentage composition of various kinds of leucocytes in the blood of rainbow trout (Salmo irideus Gibbons). Godishnik biol 56 no.1:1-16 '61-'62 [publ. '64].

1. Chair of Invertebrate Zoology of the Faculty of Biology, Geography, and Geology of the University of Sofia, Sofia (Head of the Chair: Prof. G.Kozarov).

MIKHAILOVA, P.

Some new species of Limnephilidae [illegible] Bulgaria. Godishnik biol. 57 no.1 [illegible]

1. Chair of Invertebrate Zoology of the Faculty of Biology, Geography, and Geology of the University [illegible] of the Chair, Prof. I. Kozarov.

KORNEYEV, V.M.; MIKHAILOVA, L.V. (Leningrad)

From the history of native oncology. Sov. zdrav. 22 no.6: 55-61'63. (MIRA 16:9)

(ONCOLOGY)

M...A, P.

A biological study of Galba truncatula ... the ... in rad and ...azlo, in relation to liver rot. ...

... Vol. 4, no. 1, 1962-63-1 ... (Published 19..)

Sofiya, Bulgaria

So. ... No. 7 ... 196.

MIKHAILOVA, P.

Work of striated muscles in the light of the hypothesis of sliding filaments. Biol i khim 7 no. 3:1-6 '64.

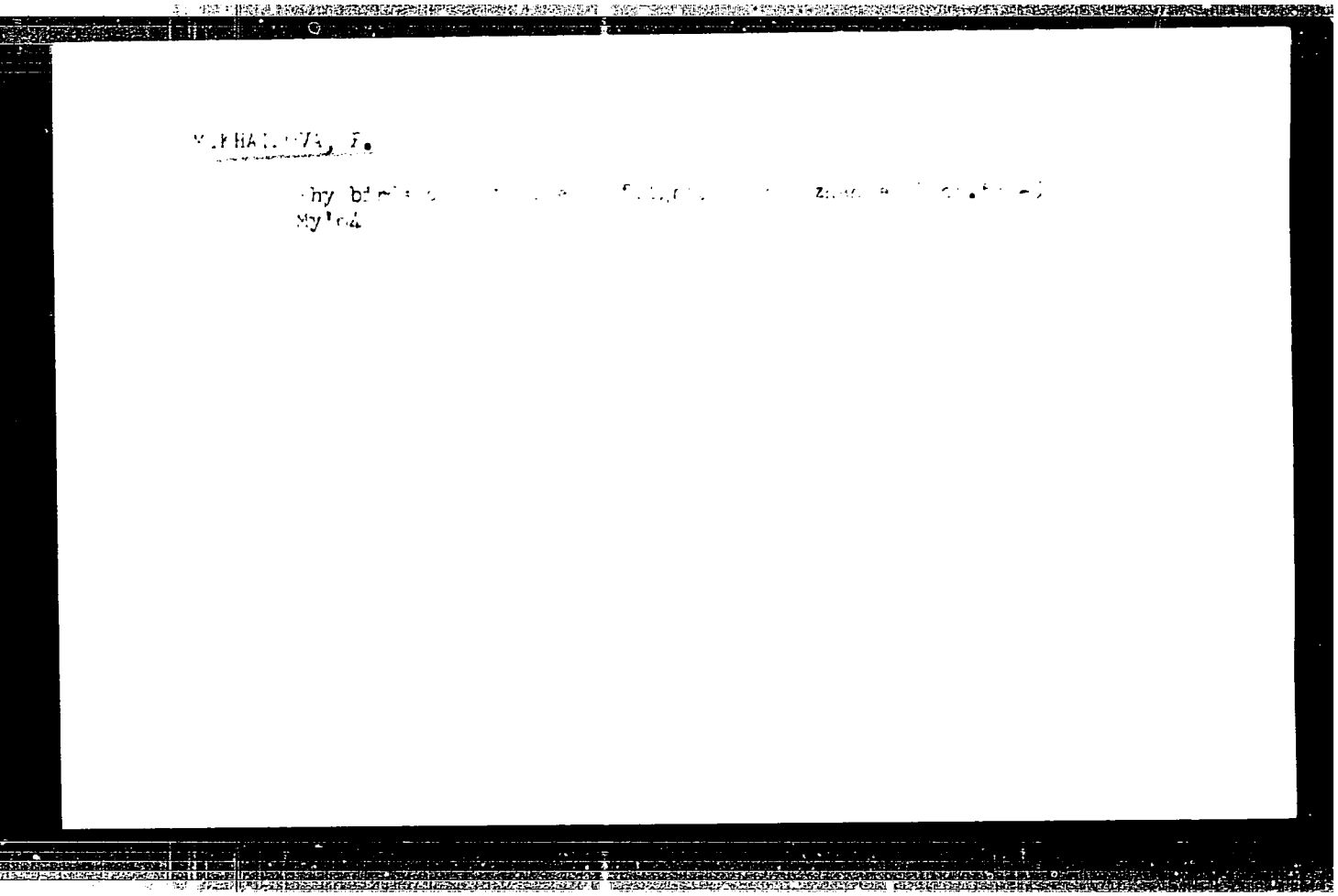
MIKHAILOVA, P.

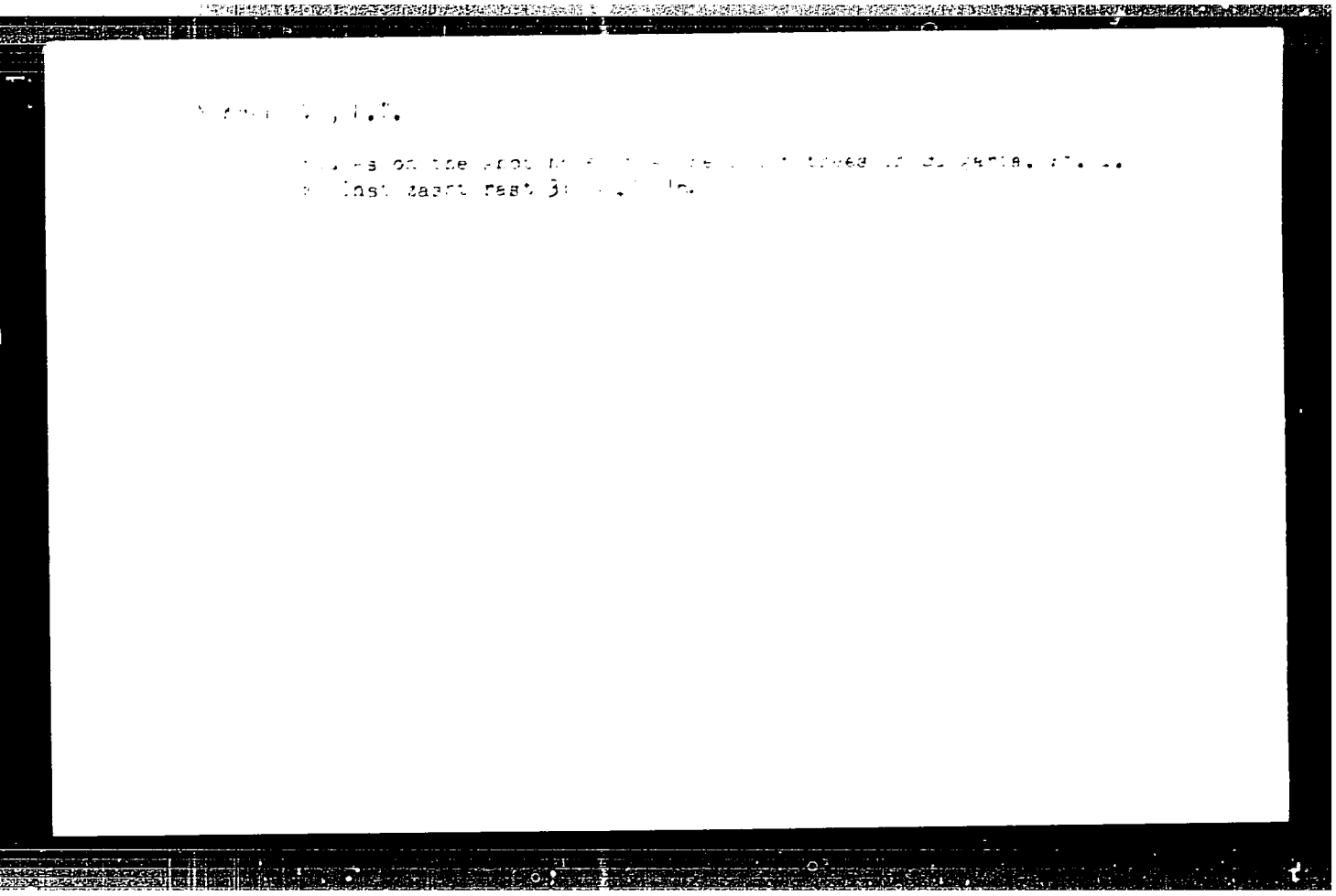
MIKHAILOVA, P. How to stop development of diseases in the vegetable hotbeds.
p. 20. Vol. 11, no. 12 Dec. 1956. KOOPERATIVNO ZEMEDELIE. Sofiia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol. 6 No. 4 April 1957

MIKHAILOVA, P.

New concepts on striated muscles. Biol i khim 7 no. 2: 11-18 '64.





MIKHAILOVA, T.N.

Leptospira infection in white mice treated with cortisone.
Trudy Tom NIIVS 12:184-189 '60 (MIRA 16:11)

1. Tomskiy meditsi[illegible] institut i Tomskiy nauchno-issledovatel'skiy institut [illegible]ktsin i syvorotok.

SUBEV, P., inzh.; MIKHAILOVA, V., inzh.

Typification of one-armed suspension cranes. Mekhanizatsiia i-
no.11:30-33 '64.

1. Institute of Hoisting and Conveying Machinery, Sofia.

MIKHAILOVA, V., inzh.

A conference on pressure casting on nonferrous metals and alloys.
Mashinostroenie 12 no.1:44-45 Ja '63.

MIKHAILOVA, V., inzh.; BOTON, M., inzh.; SLAVOV, R., inzh.

Some problems in pressure casting. Mashinostroene 12 no.2:4-6 F '63.

KAGAN,G.; MIKHAILOVA,V.S.

Isolation of L-forms of streptococci from the blood of patients with rheumatism and endocarditis. J.hyg.epidem. 7 no.3:327-343 '63.

1. Gamaleya Institute of Epidemiology and Microbiology, Department of General Medical Microbiology, Moscow.

MIKHAILOVA NEIKOVA, Margarita, kandidat na biologicheskite nauki

Fauna and flora of the water bottom (benthos). Prir i znanie 15 no.2:5-8 F '62.

MIKHAILOVA-NEIKOVA, M., kand. na biologicheskite nauki

Epactophanes richardi Mrazek in the Botanical Gardens of the Sofia State University. Priroda Bulg 12 no. 4: 101-102 Jl-Ag '63.

MIKHAILOVA-NEIKOVA, M., kandidat na biologicheskite nauki

New species of Harpacticoida [illegible] in Bulgaria.
Godishnik biol 56 no.1:125-132 '61-'62 [publ. '64].

1. Chair of Hydrobiology and Pisciculture of the Faculty of Biology, Geography and Geology of the University of Sofia, Sofia (Head of the Chair: [illegible] A.Angelov).

NIKOLOV, N., dotsent; MIKHAILOVSKI, Il.

Ileus in pregnancy. Khirurgiia, Sofia 8 no.3:210-212 1955.

1. Vissh meditsinski institut V. Chervenkov-Sofiia katedra po akusherstvo i ginekologiia zav.katedrata; prof. G. Boiadzhiev institut za spetsializatsiia i usuvurshestvuvane na lekari katedra po akusherstvo i ginekologiia. Zab.katedrata: dots. N. Nikolov.

(PREGNANCY, complications, ileus)
(INTESTINAL OBSTRUCTION, in pregnancy)

MIKHAILOVSKI, Il.

Protracted labor as a cause of stillbirth. Khirurgiia, Sofia 8 no.4:305-310 1955.

1. Visah Meditsinski Institut v Chervenkov--Sofia Katedra po akusherstvo i ginekologiia, Zav.katedrata: prof. G. Boiadzhiev.
(STILLBIRTH, etiology and pathogenesis,
protracted labor)
(LABOR, complications,
protracted labor causing stillbirth)

TOSHEV, Georgi, prof.dr.; MIKHAILOVSKI, Ilarion,d-r; DUMBELOVA, Nevena d-r; VASILEV, Bozhil; dr.

Morbidity and mortality of newborn related to birth injuries. Izv.med.inst.Sofia.,11-12:651-688 1955.

1. Klinika po akusherstvo i ginekologiia (zav.katedrata: prof. d-r Georgi Boiadzhiev) pri visshiia meditsinski institut V. Chervenkov-Sofiia.

(DELIVERY, complications, birth inj.,sequelae)

MIKHAILOVSKI, Il., dotsent

Amenorrhea, galactorrhea and lowered FSH level as a clinical syndrome. Suvr. med. 13 no.3:56-57 '62.

(AMENORRHEA) (LACTATION DISORDERS) (FSH)

MIKHAILOVSKI, I.

Cyclic regulation of the hemocytic function. Acad. Bulg.
(Sofiia) 3 no.4:53-62 '64

[illegible]HAILOVSKI, I.; IVANOV, Iv.

A case of [illegible]
[illegible] no.1:84-[illegible]

.. VMI, Sofia, Katedra po akusherstvo i ginekologiia [illegible] (prof. I.. Sh[illegible]).

MIKHAILOVSKI, Il.

A case of Sheehan's disease. Akush. ginek. (Sofiia) 4 no.4: 147-149 '65.

1. VMI, Sofiia, Akushero-ginekologichna klinika (rukovoditel: prof. Il. Shturkalev).

MIKHA[illegible], I.

[illegible] varian [illegible]

[illegible] Visshi meditsinski institut, Sofiia, katedra po akusherstvo i ginekologiia (rukov.: prof. [illegible] Shtarkalev).

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033920006-7"

MIKHAILOVSKI, M. St.

"Education in mathematical statistics by visual methods" by P. Lorenz. Reviewed by M. St. Mikhailovski. Fiz mat spisanie BAN 6 no. 3:223-224 '63.

MIKHAILOVSKIY, V.S., kand.med.nauk; NALIVAYKO, D.G., kand.med.nauk

Changes in the temperature of the skin of the face in trigeminal neuralgia. Vrach. delo no.8:60-63 Ag '63. (MIRA 16:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut neyrokhirurgii i kafedra normal'noy fiziologii (zav. - prof. N.I.Putilin) Kiyevskogo meditsinskogo instituta.
(NEURALGIA, TIGEMINAL) (BODY TEMPERATURE)

MIKHAILUS', N.G.

Normalizing pipes on the conveyer line. Metallurg 6 no.10: 30 O '61. (MIRA 14:9)

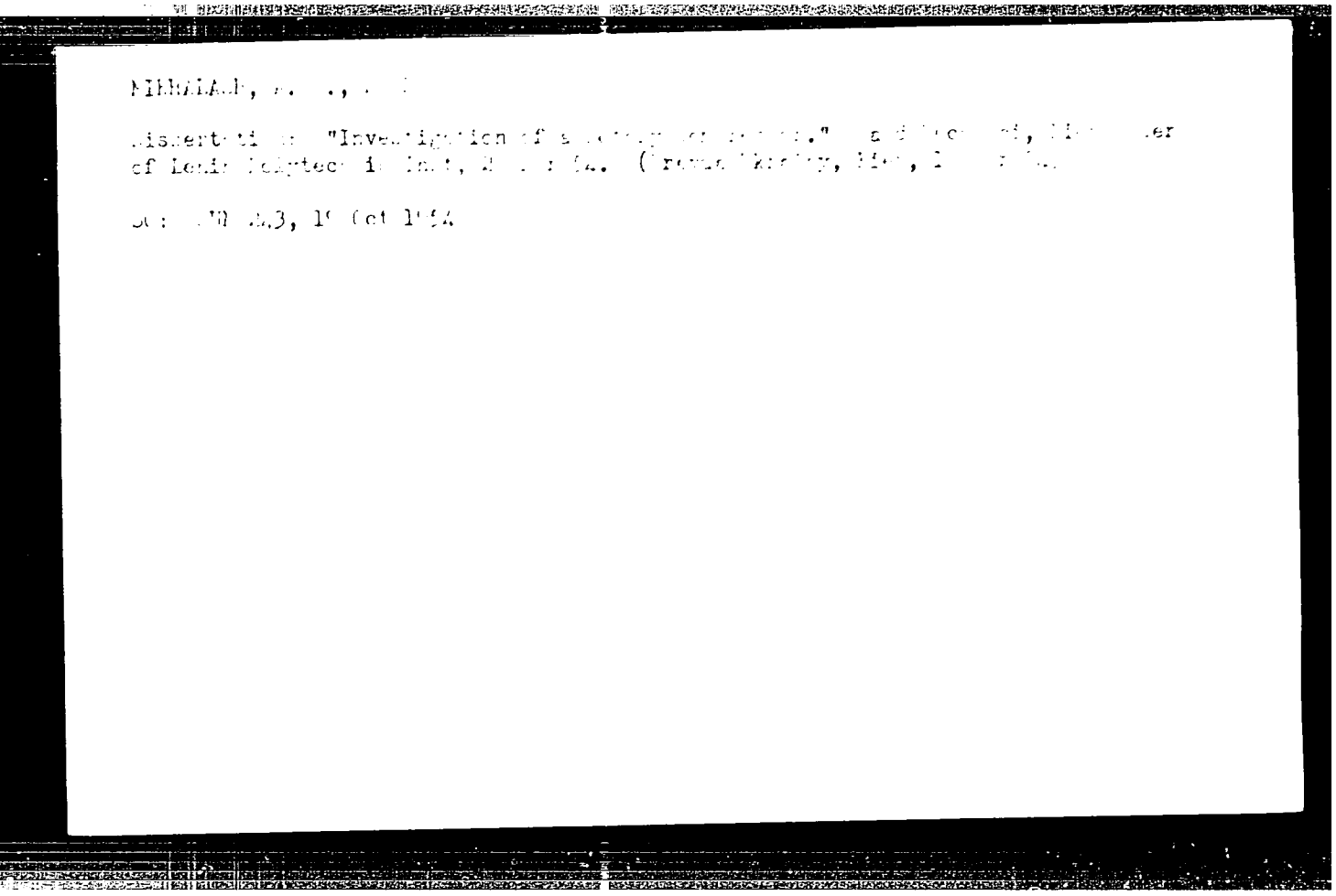
1. Energetik tsekha No.1 Yuzhnotrubnogo zavoda.
(Annealing of metals)
(Pipe, Steel)

MIKHALAP, O.N.

Rodents of the Polesye Lowland (to be continued). Vestsi AN BSSR. Ser.biial.nav. no.3:95-111 '56. (MLRA 10:1)
(Polesye--Rodentia)

MIKHALAP, O.N.

Rodents of the Polesye Lowland (continuation). Vestsi AN BSSR. Ser. biial. nav. no.4:89-102 '56. (MLRA 10:6)
(Polesye--Rodentia)



PREOBRAZHENSKIY, B.K.; KALYAMIN, A.V.; MIKHALCHA, I.

Isolation of gold and thallium from a complex mixture of elements by partition chromatography. Radiokhimiia 6 no. 1:111-112 '64. (MIRA 17:6)

KONYA, I. [Konja, J.]; DRAGOMIRESKU, Sh. [Dragomirescu, S.]; NYAMU, G. [Njamu, G.]; MIKHALCHA, V, [translator]

Teleorman Forest and the Teleorman River. Vop. geog. [illegible]:115-116 '62. (MIRA 15:9)
(Voronezh Province—Forests and forestry)
(Teleorman River) (Names, Geographical)

MIKHAL'CHENKINA, N.V., kand.tekhn.nauk

Some aqueous and physical properties of sapropels.
Torf.prom. 37 no.1:18-20 '60. (MIRA13:6)
(Sapropels)

MIKHAL'CHENKO, A. I.

"The Agrotechnical Problems of Spring Wheat in Belorussia." Cand Agr Sci, Inst of Socialized Agriculture, Acad Sci Belorussian SSR, Minsk, 1953. (RZhBiol, No 6, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

CHAMOV, V.V.; MIKHEL'CHENKO, A.S.

Automatic setup for studying the deformation relaxation in shear. Zav.lab. 31 no.4:493-494 '65. (MIRA 18:12)

1. Vladimirskiy nauchno-issledovatel'skiy institut sinteticheskikh smol.

SULAKSHINA, G.A.; MIKHAL'CHENKO, B.F.

Structural characteristics and settling of loess in the western slope of the Tom'-Yaya watershed. Izv. vys. ucheb. zav.; geol. i razv. 7 no.2:93-98 F'64. (MIRA 17:2)

1. Tomskiy politekhnicheskiy institut.

MIKHAL'CHENKO, B.F., geolog

Mineralogical and structural characteristics of loess in the Bogashevskiy area. Trudy NIIZHT no. 28:23-30 '62. (MIRA 16:11)

MIKHAL'CHENKO, G.

Rural builders strive for technical progress. Sel'.stroi. 14 no.9: 3-5 S '59. (MIRA 12:11)

1. Zamestitel' nachal'nika Belgorodskogo oblastnogo upravleniya sel'skogo khozyzystva.
(Belgorod Province--Farm buildings)

33660

S/058 [illegible]
A058 A[illegible]

21.6000

AUTHOR: Mikhal'chenko, G A

TITLE: Radiochemical determination of the useful power of beta radiation sources

PERIODICAL: Referativnyy zhurnal. Fizika, no. 12, 1961, 68 abstract 12B[illegible]. Leningr. tekhnol. in-ta im Lensoveta, 1961, no. 55, 39 [illegible]

TEXT: An account is given of the results of determining the power of beta sources under the condition of complete absorption of beta particles by a ferric sulfate solution, or by a luminescent phosphor in a photochemical solution. Sources with a power of the order 10^8 Mev/sec can be calibrated in the first case of absorption, with an error of 4-5% over a period of 2-3 days; in the second case, with an error of 10% over a period of 2 hours

[Abstracter's note: Complete translation]

Card 1/1

39157

S/120/62/000/003/013/048
E075/E436

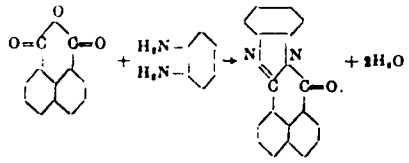
9.6170

AUTHORS: Mikhal'chenko, G.A., Nichugovskiy, G.F., Rozhanovskaya, L.P.

TITLE: Plastic scintillators with the maximum luminescence in the region of 500 millimicrons

PERIODICAL: Pribory i tekhnika eksperimenta, no.3, 1962, 66-70

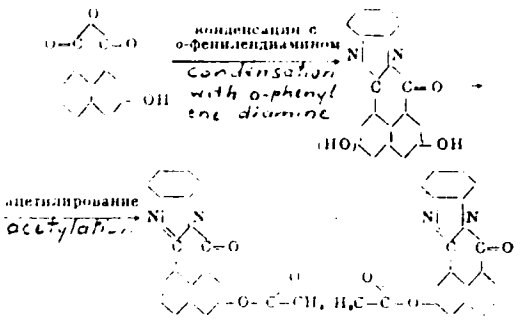
TEXT: The authors describe preparation and purification of 1,2-perinaphthalene-benzimidazole (I) and 1,2-(perinaphthalene-3'-acetyloxy)-benzimidazole (II). The luminescent properties of the compounds dissolved in polystyrene were studied.
I was obtained by condensation of naphthalic anhydride with orthophenylene diamine



Card 1/3

Plastic scintillators ...

II was obtained by the reaction



It was shown that the relative luminescent yield increased with the initial concentration of the compounds up to 1.0×10^{-2} to 1.5×10^{-2} g per 1 g of polystyrene. Maximum luminescence corresponded to the wavelength $\lambda_{max} = 495$ mμ. When the concentration of I changed from 0.91×10^{-4} to 2.3×10^{-2} per g of polystyrene, the maximum shifted from ~ 490 to ~ 505 mμ.

Card 2/3

Plastic scintillators ...

The presence of para-terphenyl in the solution (2% weight) increased the internal yield of luminescence by 2.8 times, whilst not changing the position of the maximum. The maximum luminescence given by the compounds corresponds well to the region of maximum eye sensitivity (507 mμ) under conditions of poor illumination. The compounds studied can be utilized for the visual recording of ionizing irradiations. There are 4 figures and 1 table.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut
(Leningrad Technological Institute)

SUBMITTED: October 20, 1961

Card 3/3

S/186/62/004/004/003/004
E071/E333

21 6003

AUTHORS: Mikhal'chenko, G.A. and Kleinmann, I.

TITLE: Measurements of sources of β-radiation by the methods of chemical dosimetry

PERIODICAL: Radiokhimiya, v. 4, no. 4, 1962, 479 - 486

TEXT: An investigation of the conditions of measuring the energy radiated by flat β-sources of Sr^{90} + Y^{90} with an activity of the order of tens or hundreds of millicuries is described. The authors studied the results obtained using 1) a ferro-sulphate dosimeter, based on the oxidation reaction of Fe^{2+} into Fe^{3+} taking place in a 10^{-4} to 10^{-3} M solution of $(NH_4)_2SO_4.FeSO_4.6H_2O$ in 0.8 N H_2SO_4 which has a well-established radiation yield, and 2) a new dosimeter, based on the reaction of photo-dissociation of leucocyanide of crystal violet, dissolved in an equivolume mixture of dichloro ethane and ethyl alcohol. The following reactions take place in the latter dosimetric system: a luminophor substance KBr.Tl absorbing γ- or β-radiation emits quanta in the ultraviolet region (λ_{max} = 320 mμ).

Card 1/2

Measurements of sources of ....

Leucocyanide of crystal violet partly absorbs these quanta ($\lambda < 330$ mμ), and dissociates, whereupon the quantum yield in the whole range is equal to 1.00 ± 0.01. The intensity of the β source is determined from the amount of the dye formed. The experiments were carried out with two flat β-sources of 20 and 10 mm in diameter with activities of 237 and 19.7 mcurie, respectively. The energy of these sources was determined by both dosimetric methods. It is considered that both methods are equally good for assessment of β-radiation sources. In addition, a comparison of calculated and experimental curves, representing the dependence of the absorbed energy of β-radiation on the thickness of an irradiated specimen was carried out. The degree of agreement obtained indicated that dosimetric methods could be used for studies of the distribution of radiated energy of β-sources. There are 2 figures and 7 tables.

SUBMITTED: June 29, 1961

Card 2/2

MIKHAL'CHENKO, G.A.; KARPOV, I.K.

Recoverable actinometric solution on the basis of leucocrystal violet. Opt.i spektr. 13 no.5:690-693 N '62. (MIRA 15:12)
(Leucocrystal violet) (Chemical reactions)

MIKHAL'CHENKO, G.A.; NICHUGOVSKIY, G.F.; ROZHANOVSKAYA, L.P.

Plastic scintillators with a maximum luminescence around 500 millimicrons. Prib. i tekh. eksp. 7 no.3:66-70 My-Je '62. (MIRA 16:7)

1. Leningradskiy tekhnologicheskiy institut.
(Scintillation counters)

MIKHAL'CHENKO, G.A.; KARPOV, I.K.

Radioluminescence of activated lithium iodide single crystals.
Opt. i spektr. 15 no.4:490-493 O '63. (MIRA 16:11)

L 32821-65 EWT(1) LJP(c)

ACCESSION NR: AP5004517 S/0048/65/029/001/0040/0042

AUTHOR: Mikhal'chenko, G.A. 16 B

TITLE: On some peculiarities of the radioluminescence of alkali halide crystal phosphors /Report, 12th Conference on Luminescence held in L'vov 30Jan-5Feb 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.29, no.1, 1965, 40-42

TOPIC TAGS: luminescence, ionic crystal, alkali halide, lattice vacancy, luminescence center

ABSTRACT: Beta-ray excited radioluminescence of NaCl, KCl and KBr based phosphors activated with Ag, Tl or In (other activators were also employed) was investigated at temperatures from 250 to -150°C. A fast component with a decay time less than 0.001 sec and a slow component with a decay time of the order of 0.01 sec were observed. The behavior of the fast component was relatively independent of the temperature, but the slow component was strongly temperature dependent, being very weak or basent at low temperatures. When the phosphor was irradiated at a low temperature, heated in the absence of beta radiation, and subsequently cooled, further gamma irradiation excited strong luminescence. It is suggested that beta irradia-

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L 32821-65

ACCESSION NR: AP5004517

tion produces centers which do not directly give rise to luminescence but which transform under thermal activation into centers of a second type which do luminesce when stimulated by beta radiation. The nature of these centers has not been sufficiently investigated, but it is suggested that they are due to build up of electrons and holes lodged at lattice vacancies. Data pertaining to sixteen phosphors are tabulated; the thermal behavior is characteristic of the host crystal and nearly independent of the activator. Orig.art.has: 1 table.

ASSOCIATION: none

SUBMITTED: 00/--Jan65 ENCL: 00 SUB CODE: SS,OP

NR REF SOV: 001 OTHER: 000

Card 2/2

L 65235-65 EWT(1)/EWT(m)/EWP(b)/EWP(t) IJP(c) JD

ACCESSION NR: AP5021493 UR/0368/65/003/002/0178/0181
585.37

AUTHOR: Karpov, I. K.; Mikhal'chenko, G. A. 44,55 44,55 22 B

TITLE: Luminescent properties of lithium iodide

SOURCE: Zhurnal prikladnoy spektroskopii, v. 3, no. 2, 1965, 178-181

TOPIC TAGS: lithium compound, halide, crystal phosphor, luminescent material, scintillator

ABSTRACT: Luminescent properties and some other optical properties are given for both "pure" and activated lithium iodide single crystals. Gallium, indium, neodymium, europium, ytterbium, copper, silver and tin were used as activators. Optical absorption, photoexcitation and β-luminescence spectra are given for various lithium crystal phosphors. It was found that the best phosphor crystals are those activated with europium, ytterbium, silver and tin. Europium and ytterbium give a luminescence yield which is independent of temperature in a wide range. Low-temperature luminescence was observed in "pure" lithium halide crystals with an energy yield equal to or exceeding that of the best activated crystals of this type ex-

Card 1/2