

SZEWczyk, Zenon

Effect of gastric contents of polycythemia vera patients on the erythrocytic and reticulocytic reaction. Pol. arch. med. wewnet. 34 no.12:1633-1639 '64.

1. Z Kliniki Nefrologicznej Akademii Medycznej we Wroclaiu (Kierownik: prof. dr. med. Z. Wiktor).

SZENCZYK, Zenon

Role of an infectious focus in myocarditis during the course  
of glomerulonephritis. Pol. tyg. lek. 18 no.52:1963-1966  
23 D '63.

1. Z Kliniki nefrologicznej Akademii Medycznej we Wroclawiu  
(kierownik: prof. dr Zdzislaw Wiktor) i III Katedry Chorob  
Wewnetrznych Akademii Medycznej we Wroclawiu (kierownik: prof.  
dr E. Szczeklik).

CHRAPOWICKI, Tadeusz; SZEWZYKOWSKA, Mirosława

Attempted evaluation of the effects of rheumatic disease on the respiratory system. *Pediat. polska* 34 no.7:919-929 July 59.

1. Z Oddziału Wewnętrzznego Miejskiego Szpitala Dziecięcego Nr 1 w Warszawie Kierownik Oddziału: prof. dr med. T. Chrapowicki.  
(RHEUMATIC FEVER, physiol.)  
(RESPIRATION, physiol.)

BIRZOWSKA, Halina; CZARNECKI, Jerzy; SZEWZYKOWSKA, Mirosława

2 cases of abdominal epilepsy. Pol. tyg. lek. 17 no.2:60-62 8 Ja '62.

1. Z Oddziału Dziecięcego Centralnego Szpitala Klinicznego MSW w  
Warszawie; kierownik Oddziału: prof. dr med. Tadeusz Chrapowicki.  
(EPILEPSY case reports) (ABDOMEN dis)

DOBOSE, Janusz; MANDYBUR, Tadeusz; SZEWCZYKOWSKI, Jerzy

11  
A case of co-existing tabes dorsalis and meningioma of the posterior cranial fossa. Neurologia etc. polska 11 no.2:273-275  
Mr-Apr '61.

1. Z Oddziału Neurologicznego Państwowego Szpitala dla Psychicznie i Nerwowo Chorych w Pruszkowie Wsch. Ordynator: dr med. B. Stepień  
Dyrektor Szpitala: dr med. F. Kaczanowski i z Pracowni Histologicznej Państwowego Instytutu Psychoneurologicznego w Twerkach Kierownik  
par interim: doc. dr E. Osetowska Dyrektor Instytutu: prof. dr  
Z. Kuligowski.

(TABES DORSALIS compl) (MENINGIOMA compl)  
(BRAIN NEOPLASMS compl)

STEPIEN, Maria; SZEWZYKOWSKI, Jerzy

On the problem of the symptomatology of acute isonicotinic acid  
hydrazide poisoning. Report of 3 cases. Gruzlica 29 no.9:815-820  
S '61.

1. Z Oddziału Neurologicznego Państwowego Szpitala dla Nerwów i P  
Psychicznie Chorych im. prof. Jana Mazurkiewicza w Pruszkowie Ordynator:  
dr med. I. Wald Dyrektor: dr med. F. Kaczanowski.

(ISONIAZID toxicol) (NEUROLOGICAL MANIFESTATIONS)

MARKS, Eugeniusz; SZEWZYKOWSKI, Jerzy; MISZCZAK, Jan

A case of late familial amaurotic idiocy. Neurol. neurochir. psychiat. Pol. 14 no. 2:257-259 Mr-Apr '64.

1. Z Oddziału Neurologicznego Wojskowego Instytutu Medycyny Lotniczej (Konsultant naukowy: prof. dr med. I. Hausmanowa-Petrusewicz).

MARKS, Eugeniusz; SZEWZYKOWSKI, Jerzy

Neurological manifestations in toxic lesions of the hematopoietic system. Wiad. lek. 18 no.15:1267-1270 1 Ag '65.

1. Z Wojskowego Instytutu Medycyny Lotniczej.



MARKS, Eugeniusz; SZEWCZYKOWSKI, Jerzy

A case of generalized herpes zoster. Wiad. lek. 18 no.16:  
1349-1351 15 S '65.

1. Z Wojskowego Instytutu Medycyny Lotniczej.

SIENORSKI, Jerzy (Warszawa)

Economic conditions for the realization of the production  
tasks in building for the year 1964. Przegl budowl i bud mieszk  
36 no. 1:1-3 Ja '64.

TUSZKIEWICZ, Alfred R.; SZENCZYKOWSKI, Witold

Clinical results of examination of tractor workers. Ann.Univ.  
Lublin; sec.D 8:213-230 1953.

1. Z Instytutu Medycyny Pracy Wsi A.M.w Lublinie. Dyrektor:  
prof. d Jozef. Parnas. Z II Kliniki Chorob Wewnetrznych  
Akademii Medycznej w Lublinie. Kierownik: prof. dr.Alfred R.  
Tuszkiewicz.

(OCCUPATIONAL DISEASES,  
in tractor workers)

TUSZKIEWICZ, Alfred R.; SZENCZYKOWSKI, Witold.

Diagnosis, course, and therapy of brucellosis. Ann.Univ.Lublin;  
sec.D 8:231-261 1953.

1. Z Instytutu Medycyny Pracy Wsi A.M. w Lublinie. Dyrektor: prof  
dr. Jozef Parnas. Z II Kliniki Chorob Wewnętrznych Akademii  
Medycznej w Lublinie. Kierownik: prof. dr. Alfred R. Tuskiewicz.  
(BRUCELLOSIS,  
diag.,clin.aspects & ther.)

SZERESZEWSKA, H.;SZEWCZYKOWSKI, W.

Effect of exchange transfusion in clinical and hematological picture  
in myelocytic leukemia. Polski tygod. lek. 8 no.24:854-856; concl. 15  
June 1953. (GIML 25:1)

1. Of the Second Internal Clinic (Head--Prof. A. Falkiewicz, M.D.) of  
Wroclaw Medical Academy.

SZEWZYKOWSKI, W.

TUSZKIEWICZ, A.R.; SZEWCZYKOWSKI, W.

Clinical picture of brucellosis in Poland. Med. pracy 5 no.2:  
121-128 1954.

1. Z Instytutu Medycyny Pracy Wsi, Dyrektor: prof. dr J.Parnas  
i z II Kliniki Chorob Wewnętrznych A.M. w Lublinie, Kierownik:  
prof. dr A.R.Tuszkiewicz.

(BRUCELLOSIS, epidemiology,  
Poland)

SZEWZYKOWSKI, W.

TUSZKIEWICZ, A.R.; SZEWZYKOWSKI, W.; MARCINIAK, W.

Studies on causes of diseases in tractor operators. Med. pracy 5  
no.2:129-134 1954.

1. Z Instytutu Medycyny Pracy Wsi, Dyrektor: prof. dr J.Parnas i  
z II Kliniki Chorob Wewnętrznych A.M. w Lublinie, Kierownik: prof.  
dr A.R.Tuszkiewicz,  
(OCCUPATIONAL DISEASES,  
in tractor operators)

SZEWczykowski, Witold

TUSZKIEWICZ, Alfred R.; SZEWCZYKOWSKI, Witold

Studies on the locomotor organs in tractor drivers. Polskie arch. med wewnetrz. 24 no.4a:681-684 1954.

1. Z Instytutu Medycyny Pracy Wsi. Dyrektor: prof. dr J.Parnas z II Kliniki Chorob Wewnetrznych Akademii Medycznej w Lublinie. Kierownik: prof. dr A.Tuszkiewicz.

(SPINE, pathology,  
in tractor drivers)

(PELVIS, pathology  
in tractor drivers)

(WORK,  
tractor operation, eff. on spine & pelvis)



TUSZKIEWICZ, Alfred R.; SZEWCZYKOWSKI, Witold

Articular system in brucellosis in Poland. Polskie arch. med.  
wewnetrz. 24 no.5a:898-902 1954.

1. Z Instytutu Medycyny Pracy Wsi w Lublinie. Dyrektor: prof.  
dr J.Parnas i z II Kliniki Chorob Wewnętrznych Akademii Medycznej  
w Lublinie. Kierownik: prof. dr A.R.Tuszkiewicz.

(BRUCELLOSIS, pathology,  
joints)

(JOINTS, in various diseases,  
brucellosis)

201-028-110000-10  
FREYTAG, J.; SZEWZYKOWSKI, W.

Problem of industrialhygiene in training of tractor operators.  
Med.pracy 6 no.3:187-190 1955.

1. Z Zakladu Higieny Pracy Mechanizatorow Rolnictwa Institutu  
Medycyny Pracy Wsi w Lublinie Dyrektor: prof. dr J. Parnas.  
(INDUSTRIAL HYGIENE,  
in train. of tractor operators in Poland)

KRAWCZYNSKI, Jerzy; SZEWCZYKOWSKI, Witold; RYCAJ, Mieczyslaw;  
DREWNOWSKA, Irena; PASTUSZANKA, Stanislaw; KUJAWA, Romuald;  
IWANOWSKI, Henryk

Essay of determination of certain renal diseases with the aid of  
complex laboratory tests. Polski tygod. lek. 11 no.41:1742-1749  
8 Oct 56.

1. (Z Centralnego Laboratorium Klinicznego P.S.K. Nr 1 w Lublinie;  
kierownik: doc. dr. Jerzy Krawczynski iz II Kliniki Chorob Wewn.  
A.M. w Lublinie; kierownik: prof. dr. Alfred Roman Tuszkiewicz)  
Adres: Lublin, ul. Staszica 16.  
(KIDNEY FUNCTION TESTS,  
complex technics (Pol))

SZENCZYKOWSKI, W.

TUSZKIEWICZ, A.R.; SZENCZYKOWSKI, W.

Clinical picture of chronic brucellosis in Poland. Polski  
tygod. lek. 12 no.10:341-346 4 Mar 57.

1. (Z Działu Klinicznego Instytutu Medycyny Pracy i Higieny  
Wsi w Lublinie; kierownik: prof. dr. A. R. Tuszkiewicz).  
Adres: Lublin, ul. Ogrodowa 4, Inst. Med. Pracy i Higieny Wsi.  
(BRUCELLOSIS,  
in Poland, clin. manifest., review (Pol))

TUSZKIEWICZ, Alfred R.; WYSOCKA, Felicja; SZENCZYKOWSKI, Witold; BRYC, Zbigniew

Clinical picture of swamp fever in the Lublin province during 1955-1957.  
Przegl. epidem., Warsz. 12 no.1:15-24 1958.

1. Z Działu Klinicznego Instytutu Medycyny Pracy i Higieny Wsi.  
(LEPTOSPIROSIS, epidemiology,  
swamp fever in Poland, clin. picture (Pol))

KRAWCZYNSKI, Jerzy; TUSZKIEWICZ, Alfred; RYCAJ, M.; SZENCZYKOWSKI, Witold;  
DREWNOWSKA, R.; KUJAWA, R.; PASTUSZANKA, S.

An attempt to determine the value of the so-called clearance index  
for electrolytes in certain renal diseases. Polskie arch.med. wewn.  
28 no.4:468-474 1958.

1. Z II Kliniki Chorob Wewnętrznych A.M. w Lublinie. Kierownik:  
prof. dr med. A. Tuszkiewicz i z Central. Laboratorium Klinicznego PSK  
Nr 1 Kierownik: doc. dr med. J. Krawczynski. Adres autora: Lublin,  
ul. Staszica 16. II Klinika Chorob Wewnętrznych A.M.

(KIDNEY FUNCTION, TESTS

electrolyte clearance tests in renal dis., value (Pol))

(ELECTROLYTES, metabolism

clearance tests in renal dis., value (Pol))

TUSZKIEWICZ, Alfred; KRAWCZYNSKI, Jerzy; RYGAJ, M.; SZEWCZYKOWSKI, Witold;  
DREWNOWSKA, I.; KUJAWA, R.; PASTUSZANKA, S.

An attempt to determine the value of the so-called clearance test  
for uric acid in certain renal diseases. Polskie arch.med. wewn.  
28 no.4:574-577 1958.

1. Z II Kliniki Chorob Wewnętrznych A.M. w Lublinie Kierownik: prof.  
dr med. a. Tuszkiewicz i z Centr. Laboratorium Klinicznego PSK Nr 1  
Kierownik: doc. dr med. J. Krawczynski. Adres autora: Lublin,  
ul. Staszica 16, II Klinika Chorob Wewnętrznych A.M.

(KIDNEY FUNCTION TESTS,

uric acid clearance in renal dis., value (Pol))

(URIC ACID, metab.

clearance test in renal dis., value (Pol))

SKORZYNSKI, Kazimierz; SZEWCZYKOWSKI, Witold

Aneurysms of the trunk and main branches of the pulmonary artery.  
(Report of 3 cases). Polski tygod. lek. 16 no.24:916-923 12 Je '61.

1. Z Zakladu Radiologii A. M. w Lublinie; kierownik: z-ca prof. dr med. K. Skorzynski i z II Kliniki Chorob Wewnetrznych A. M. w Lublinie; kierownik: prof. dr med. A. Tuszkiewicz.

(PULMONARY ARTERY dis) (ANEURYSM case reports)



POLAND

TUSZKIEWICZ, A. R., and SZEWZYKOWSKI, W., Clinical Division (Dzial Kliniczny) of the Institute Occupational Medicine and Rural Hygiene (Instytut Medycyny Pracy i Higieny Wsi) in Lublin (Director of Institute: Prof. Dr. Jozef PARNAS, Director of Division: Prof. Dr. A. R. TUSZKIEWICZ)

"The Treatment of Brucellosis. Observation of 186 Cases."  
Warsaw, Polski Tygodnik Lekarski, Vol 18, No 10, 4 Mar 63,  
PP 346-351.

Abstract: [Authors' English summary modified] Therapeutic methods and results of treating 186 brucellosis patients (mostly chronic form) with antibiotics, PS or PD vaccine, or both. Immediate results of antibiotic therapy were good, but out of 68 patients re-checked, 40 showed recurrence, whereas some patients retained the disease despite several treatments. Authors discuss the treatment of the disease, difficulties in evaluating activity of chronic form, and the unsatisfactory results of its treatment. Of the 21 references, 3 each are Polish and Russian, while the 10 English and 5 French references contain also WHO reports.

APPROVED FOR RELEASE 08/31/2001

CIA-RDP86-00513R001754510018-9"

Treatment of brucellosis. (According to observations on 186 cases). Pol. tyg. lek. 18 no.10:346-351 4 Mr '63.

1. Z Dzialu Klinicznego Instytutu Medycyny Pracy i Higieny Wsi w Lublinie; dyrektor: prof. dr Jozef Parnas, kierownik dzialu: prof. dr A.R. Tuskiewicz.

(BRUCELOSIS) (ANTIBIOTICS) (VACCINE THERAPY)  
(ADRENAL CORTEX HORMONES)

SZEWZYKOWSKI, W., doc. dr.; BRZOZOWSKI, J., doc. dr.; WOLANSKI, I.;  
BERBEC, W.

Poisoning with organic phosphorus preparations used in agriculture  
(description of 6 cases). Pol. tyg. lek. 20 no.9:310-312 1 Mr'65.

1. Z II Kliniki Chorob Wewnętrznych (kierownik: prof. dr. A.R.  
Tuszkiewicz); z III Kliniki Chorob Wewnętrznych (kierownik: doc.  
dr. W. Szewczykowski) i z Zakładu Szkodliwosci Chemicznych (kie-  
rownik: doc. dr. J. Brzozowski) Instytut im. W. Chodzki w Lub-  
linie (dyrektor: prof. dr. J. Parnas).

TUSZKIEWICZ, ALFRED R.; SZEWCHUKOWSKI, WITOLD

Errors in recognition of brucellosis in Poland, Pol. tyg. lek.  
no.17:602-604 26 Ap '65.

1. z Działu Klinicznego Instytutu Medycyny Pracy i Higieny Wsi  
im. W. Chodzki w Lublinie (Dyrektor: prof. dr. Jozef Parnas),  
z II Kliniki Chorob Wewnętrznych AM w Lublinie (Kierownik: prof.  
dr. Alfred R. Tuszkiewicz) i z III Kliniki Chorob Wewnętrznych  
AM w Lublinie (Kierownik: doc. dr. Witold Szewczykowski).

SZENKO, M.

"Granulating superhostate of lime." p.17 (MECHANIZATOR ROLNICTWA, Vol. 2, no. 3,  
March 1953 Warszawa, Poland)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress  
August 1953, Incl.

DUDZIK, Zygmunt; LUDWICKI, Henryk; SZEWO, Stanislaw

Determination of bismuth in certain compound drugs. Farmacja Pol  
18 no.6:132-134 Mr '62.

1. Zaklad Lekow Galenowych, Instytut Lekow, Warszawa, Kierownik:  
Dr. H. Ludwicki.

SZYMUSKI, F.

Calculations of pressure loss in the flow through blade cascades of turbines.  
p. 265.  
(Polska Akademia nauk. Komitet Budowy maszyn) Warszawa, Poland.  
Vol. 2, No. 3, 1955.

So. East European Accessions List Vol. 5, No. 1, Jan. 1956

SZEWORSKA, Ludmila

Plenary session of scientific departments and committees  
of the Polish Academy of Sciences in the 2d trimester 1961.  
Nauka Pol 9 no.4:259-266 O-D '61.

1. Polska Akademia Nauk, Biuro Prezydjalne.

SZEWORSKA, Ludmila

Plenary Meetings of Departments and of Scientific Committees of the  
Polish Academy of Sciences for the time from July 1 to October 31,  
1962. Nauka Polska 11 no.1:175-180 Ja-F '63.



PIENTAK, Tadeusz (Warszawa); SZEWORSKI, Jerzy (Warszawa).

Premises and trends of development of the network of building  
assembling enterprises. Przegl budowl i bud mieszk 34 no.12, 694-  
700 D, '62.

SZEWORSKI, Jerzy

Certain problems concerning city planning and the development of construction techniques. Przegl budowl i bud mieszk 35 no.9:465-470 '63.

*SZEZENIOWSKI, S.*

POLAND/Magnetism - Ferromagnetism

F-2

Abs Jour : Ref Zhur - Fizika, No 1, 1958, 1130

Author : Szezeniowski Szczepan, Smolinski Adam

Inst : -

Title : Physical Problems and Technical Applications of Ferromagnetic Materials.

Orig Pub : Zesz. probl. nauki polsk., 1957, No 8, 73-141; Dyskus., 389

Abstract : Survey. Bibliography, 138 titles.

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SZCZEPANIK, S.

②  
✓ 4439. UTILIZATION OF INSULATING OILS IN POWER EQUIPMENT.  
Szczepanik S. and Gunic, H. (Energetyka (Power, Poland) 1953, vol. 7, (No. 188-193). A review of types of oils and properties required for their application in transformers, circuit breakers, condensers and cables. Deterioration in service due to combined action of moisture and fibrous impurities is discussed and current methods for ageing resistance testing compared.

10-13-57  
CAF

SZEZEPANSKA, Halina (Warszawa, ul. Wolska 37)

Petechial symptom in infectious mononucleosis. *Pediat. polska* 32 no.4:  
387-389 Apr 57.

1. Z Kliniki Chorob Zakaźnych Wieków Dziecięcego A. M. w Warszawie.  
Kierownik: prof. dr Med. J. Bogdanowicz.

(INFECTIOUS MONONUCLEOSIS, in inf. & child  
manifested by petechia of palate, diag. value (Pol))

(PALATE, dis.  
petechia as a manifest. of infect. mononucleosis in  
child., diag. value (Pol))

WINTERHORN, J.

J. Szary-Bulkska, F. Lorkiewicz and J. Parnas: "Vergleichende Untersuchungen über das pneumotrope Virus bei Mensch und Schwein". Eingegangen am 5. April 1956; Lehrstuhl für Mikrobiologie an der Ärztlichen Fakultät der Akademie der Medizin in Lublin (Direktor: Prof. Dr. Dr. Joseph Parnas). In: Archiv für Experimentelle Veterinärmedizin, Heft 6, Band X, 1956. (Leipzig), p. 167. Uncl.

"Comparative Investigations on the Pneumotropic Virus in Man and Pigs". Entered on 5 April 1956. Chair for Microbiology at the Medical Faculty of the Academy of Medicine, Lublin. Prof. Dr. Joseph Parnas, Director.

ROSNER, Tadeusz; JOFFE, Zenon; SZFKO, Jerzy

Copolymerization of acrylonitrile with methyl - alpha - chloroacrylate.  
Przem chem 40 no.8:460-463 Ag '61.

1. Politechnika Szczecinska.

*Szhanumyan, B. G.*

14-57-6-13002

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,  
p 167 (USSR)

AUTHOR: Szhanumyan, B. G.

TITLE: Present State of Agriculture and Prospects for Its  
Development in the Districts of Nagornyy Shirvan and  
in Kobystan (O sostoyanii i perspektivakh razvitiya  
sel'skokhozyaystvennogo proizvodstva v rayonakh  
Nagornogo Shirvana i v Kobystane)

PERIODICAL: Tr. Sektora ekon. AN AzerbSSR, 1956, Vol 3, pp 93-121

ABSTRACT: The author describes the present state of agriculture  
and the prospects for its diversification, speciali-  
zation, and development within a group of regions  
stretching west from Baku over the southern slopes of  
the eastern part of the Great Caucasus. He dis-  
tinguishes the following agricultural microzones in  
Shirvan: 1) a lower zone of winter pastures and

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14-57-6-13002

Present State of Agriculture (Cont.)

irrigated cultivation, occupying all of Central and Southern Kobystan, (from 0 to 500 m above sea level) and extending only a little way into Shirvan; 2) a foothill (low mountain) bogar-type zone, growing grapes and cereals, and including more than 50 percent of Shirvan (the Marazinskoye, Shemakhinskoye, Gyurdzhevanskoye and Shirvanskoye Plateaus); 3) a mountain zone, the fertile fruit-bearing part of the Ismaillinskiy and Shemakhinskiy rayony (regions) lying at 1000 to 1600 m above sea level; 4) a high mountain zone of subalpine summer pastureland (a part of the Ismaillinskiy and Shemakhinskiy regions, where absolute altitude exceeds 1600 m). Grapes and field crops are the agricultural mainstays of Shirvan. Viticulture accounted for 42.3 percent of gross product and 44.0 percent of total revenue in 1953. Approximately 3100 hectares were under grapes in 1954. It is intended to increase the area under grapes to 10 200 acres by 1960 (during the sixth five year plan 24 500 hectares will be brought under new grapes in the republic; this will almost double the area under grape cultivation in 1954). Cereals, commercial crops, fodder  
Card 2/3

Sz heno, Yu K.

AUTHORS: Kucheryayev, A. G., Szhenov, Yu. K., SOV/56-34-3-50/55  
Gogichayshvili, Sh. M., Leont'yeva, I. N.,  
Vasil'yev, L. V.

TITLE: The Magnetic Nuclear Moments of  $\text{Sr}^{87}$  and  $\text{Mg}^{25}$   
(Yadernyye magnitnyye momenty  $\text{Sr}^{87}$  i  $\text{Mg}^{25}$ )

PERIODICAL: Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1958,  
Vol. 34, Nr 3, pp. 774-775 (USSR)

ABSTRACT: The authors found the gyromagnetic ratio of the nucleus  $\text{Sr}^{87}$   
by means of the method of magnetic resonance in molecular  
beams (ref. 1). This molecular beam consisted of strontium  
atoms which made possible the elimination of the inter-  
molecular interactions as well as an exact taking into  
account of diamagnetic correction. The 378 cm long strontium-  
atom beam was detected by means of the method of surface  
ionization on a heated tungsten wire circumflowed by an  
oxygen current. The ions of strontium 87 were separated by  
a magnetic analyzer and were recorded by an electronic  
multiplier and a galvanometer. The value of the gyromagnetic  
ratio  $g$  of the nucleus is determined from the equation

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The Magnetic Nuclear Moments of  $\text{Sr}^{87}$  and  $\text{Mg}^{25}$

BOV/56-34-3-50/55

$$g = 1,3122 \cdot 10^{-3} f_p / H_p$$

where  $f_p$  denotes the resonance frequency of the oscillating field, and  $H_p$  denotes the corresponding resonance value of the constant magnetic field (in which the transitions take place). The resonance values  $f_p$  and  $H_p$  correspond to the minimum intensity of the refocused beam. The measurements were carried out according to the method of the invariable field as well as the method of invariable frequency. Also the fluctuations of the intensity of the atom beam were taken into account by means of two different methods shortly discussed. The maximum error of these measurements is estimated to amount to 0.12 %. From 26 measurement series the following mean value for the gyromagnetic ratio is obtained:

$$g(\text{Sr}^{87}) = 0,2423 \pm 0,0003$$

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this coincides within the error limits with the value

The Magnetic Nuclear Moments of  $\text{Sr}^{87}$  and  $\text{Mg}^{25}$

SOV/56-34-3-50/55

determined by G. D. Jeffries (Dzhefris) and P. B. Sogo (Ref 4) according to the method of "nuclear induction". The diamagnetism, of the atom demands the following correction:

$$H_{\text{true}} = (1 - \sigma)H_{\text{measured}}$$

Here  $H_{\text{true}}$  denotes the true value of the magnetic field strength at the place of the nucleus. According to W. C. Dickinson (Dickinson) (Ref 5) here holds  $\sigma = 0.00345$ . Taking into account this correction as well as the unknown value of the spin of  $\text{Sr}^{87}$  ( $I = 9/2$ ) the value of  $\mu$  ( $\text{Sr}^{87}$ ) =  $1.0939 \pm 0.0014$  nuclear magnetons is obtained for the magnetic moment of the nucleus of  $\text{Sr}^{87}$ . There are 6 references, 0 of which are Soviet.

SUBMITTED: December 25, 1957

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21(1), 24(3)  
AUTHORS:

SOV/56-37-2-51/56  
Kucheryayev, A. G., Szhenov, Yu. K., Gogichayshvili, Sh. M.

TITLE:

Measurement of the Magnetic Moments of the Atomic Nuclei of Alkaline Earth Metals by the Method of Magnetic Resonance in Molecular Beams

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 37, Nr 2(8), pp 582-583 (USSR)

ABSTRACT:

This method offers certain advantages if compared to other methods, if the molecular beam consists of atoms in the  $S_0$ -state. It has already been used for the purpose of measuring the magnetic moments of  $Ba^{135}$ ,  $Ba^{137}$ ,  $Ne^{21}$ , and  $Sr^{87}$  (Refs 1-4). As already shown by the authors (Refs 4,5), this method may also serve the purpose of determining the magnetic moments of all alkaline earth metals. The description of the experimental arrangement and of the method may be found in reference 5.  
Results:

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SOV/56-37-2-51/56

## Measurement of the Magnetic Moments of the Atomic Nuclei of Alkaline Earth Metals by the Method of Magnetic Resonance in Molecular Beams

	t, °C	I, imp/sec	$\beta$	$\mu$
Mg <sup>25</sup>	600	200	$2.10^{-4}$	$-0.855 \pm 0.002$
Ca <sup>43</sup>	1070	300	0.02	$1.317 \pm 0.003$
Sr <sup>87</sup>	750	$10^4$	0.2	$-0.0924 \pm 0.0009$
Ba <sup>135</sup>	800	500	0.6	$1.8370 \pm 0.0008$
Ba <sup>137</sup>	800	850	0.6	$0.9364 \pm 0.0009$

t denotes the temperature of the source, I - the recorded intensity of a narrow bundle,  $\beta$  - the surface ionization coefficient at optimum detection conditions,  $\mu$  - the magnetic moment (with diamagnetic correction) given in nuclear magnetons.

Systematical errors were excluded. The authors finally thank T. S. Bokuchav, K. G. Mirzoyev, and I. N. Leont'yeva for their help in carrying out measurements, M. I. Guseva, V. M. Gusev,

and D. V. Chkuaseli for the enriched Ca<sup>43</sup>-preparation. There are 2 tables and 12 references, 3 of which are Soviet.

Card 2/3

SOV/56-37-2-51/56

Measurement of the Magnetic Moments of the Atomic Nuclei of Alkaline Earth Metals by the Method of Magnetic Resonance in Molecular Beams

ASSOCIATION: Fiziko-tehnicheskiy institut Akademii nauk GruzSSR (Physico-technical Institute of the Academy of Sciences, Gruzinskaya SSR)

SUBMITTED: May 19, 1959

Card 3/3



21(8)

AUTHOR:

Szhenov, Yu. K.

SOV/56-37-2-2/56

TITLE:

On the Mechanism of the Surface Ionization of Alkaline Earth Metals

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,  
Vol 37, Nr 2(8), pp 336-339 (USSR)

ABSTRACT:

In the introduction investigations carried out by the authors (Dobretsov, Romanov, Starodubtsev, Timokhina, Morozov), who already worked by the mass-spectrometric method, are described. The author himself, partly together with others, already investigated the surface ionization of Sr, Ca, Mg, and measured the magnetic nuclear moments by means of the nuclear resonance method, and published a report on these measurements (Refs 8-10). The measuring method was similar to that described in reference 5. Here surface ionization measurements carried out by means of the mass spectrometer of alkaline earth and Na on tungsten are described. The metals were investigated simultaneously; the tungsten filament had a temperature of 1600 - 2200°K; in this range the temperature dependence of the ion currents was, among other things, investigated. Figure 1 shows the course taken by the curves  $\lg i_+(1/T)$ . Further experiments were carried out with

Card 1/3

On the Mechanism of the Surface Ionization of  
Alkaline Earth Metals

SOV/56-37-2-2/56

oxidized tungsten; for this purpose the tungsten is exposed to a continuous oxygen current; the increase of the surface ionization coefficient thus caused is considerable. Figure 2 shows the dependence of the ion currents of Na and Sr on oxygen pressure at a continuous filament temperature. A certain decrease of these ion currents at  $T = 1900^{\circ}\text{K}$  is explained by the scattering of atom- and ion beams on oxygen. Figure 3 shows the temperature dependence of the ion currents of Sr and Na with

$\text{WO}_3$  ( $p = 3.5 \cdot 10^{-6}$  mm Hg); the Na ion current shows a continuous monotonic increase with falling temperature and attains saturation at  $T < 1600^{\circ}\text{K}$ . The ion current of Sr is at  $T > 1800^{\circ}\text{K}$  only little lower than the Na-curve, which it touches, after which it decreases sharply (with further decreasing  $T$ ). Analogous curves for Ba, Sr, Ca and Mg at various pressures are shown by figure 4. The phenomena found here are dealt with on the basis of the Saha-Langmuir theory. Figure 5 shows temperature characteristics of the life-times of atoms on the filament at various pressures. Within this range, the course taken by the curves is quite characteristic of the alkaline earths;

Card 2/3

On the Mechanism of the Surface Ionization of  
Alkaline Earth Metals

SOV/56-37-2-2/56

sodium does not show the sharp current drop if temperature drops or oxygen pressure increases; this cannot be explained by a decrease of the work function of the adsorbed alkaline earth atoms. These particular features are explained by the assumption that oxides of these metals are produced on the surface, which then evaporate. The author finally thanks Professor V. Khartman, A. G. Kucheryayev, Sh. M. Gogichayshvili and A. M. Romanov for help and valuable critical remarks. There are 5 figures and 16 references, 11 of which are Soviet.

SUBMITTED: January 14, 1959

Card 3/3

USSR/Physics - Surface ionization *S z h e n o v Yu K* FD-3282

Card 1/1 Pub. 146 - 41/44

Author : Szhenov, Yu. K.

Title : Surface ionization of calcium, strontium and magnesium on oxidized wolfram

Periodical : Zhur. eksp. i teor. fiz., 29, No 6(12), Dec 1955, 901-902

Abstract : The phenomenon of surface ionization of atoms of alkali metals is satisfactorily described by the Sach-Langmuir equation (L. N. Dobretsov, Elektronnaya i ionnaya emissiya, 1952), but in the case of the alkaline-earth elements sufficiently good agreement with theory has not been observed; the existing data on the surface ionization of barium G. A. Morozov, Zhur. tekhn. fiz., 17, 1947), calcium and magnesium (L. N. Dobretsov, S. V. Starodubtsev, and Yu. I. Timokhina, DAN SSSR, 55, 1947) on wolfram has been obtained under dissimilar experimental conditions and diverges noticeably. The writer of the present note remarks that it is possible in certain of these experiments the wolfram was subjected to oxidation, which would change the work function of the surface and complicate the mechanism governing the phenomenon. He presents certain results of an investigation of the surface ionization of atoms of calcium, strontium and magnesium on wolfram, with the purpose of finding the possibilities of their effective ionization. To measure the ion currents he employed the mass-spectrometric procedure. Seven references.

Submitted : June 2, 1955

MIRPULATOV, K.I.; SZHIYEMBAYEV, Zh.

New institutes of plant protection. Zashch. rast. ot vred. i  
bol. 4 no.2:56 Mr-Apr '59. (MIRA 16:5)

1. Direktor Nauchno-issledovatel'skogo instituta zashchity  
rasteniy, Uzbekistan (for Mirpulatov). 2. Direktor Nauchno-  
issledovatel'skogo instituta zashchity rasteniy Akademii sel'  
skokhozyaystvennykh nauk Kazakhskoy SSR (for Dzhiyembayev).  
(Uzbekistan—Plants, Protection of—Research)  
(Kazakhstan—Plants, Protection of—Research)

SECRET, J.

Metal shaping by dipping. Study : article 9 no. 4:212-214 Ap '64.

SZIBERL, Jozef, inz.

Copper recovery from diluted solutions. Rudy 1 metalu  
10 no.2:96-97 E 165.

SZIDAROV J

16

2. A practical method to solve differential equations with nonconstant coefficients. (In German) J. Szidarovszky. *Acta Technica Academiae Scientiarum Hungaricae*, Vol. 24, 1969, No. 1-2, pp. 85-94, 1 fig.

The paper presents a method for the benefit of practicing engineers by which differential linear equations with non-constant coefficients may be approximately resolved. This may be achieved by dividing the explanatory range of the differential equations into narrow sections inside of which the coefficients of the derivatives and also the disturbing member on the right side can be considered as constant. Thus the general solutions of the substituting differential equations may be set down inside the single sections. However, the general solution of the substituting differential equations of the  $n$ th order can be obtained by summing up the  $n$  particular solutions of the homogeneous form of this differential

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7.2.11

2

equation, each of these multiplied by an optional constant, and one particular solution of the inhomogeneous form. To obtain the single particular solution, the following method should be applied. By choosing a practical particular solution referring to the first section, the particular solution relating to the second section is obtained in such a way that the differential equation pertinent to the second section must satisfy the connecting conditions on the boundary between the first and the second section. The particular solution referring to

the third section is determined on the basis of the solution related to the second section, and so on. The individual particular solution can in this way be determined from section to section. Finally from the given peripheral conditions the  $n$  constants figuring in the general solution can be ascertained as free parameters.

Szid



SZIDAROVSKY, J.

Dimensioning of composite struts.

p. 205 (Nelyepitestudományi Szemle. Vol. 7, no. 5/6, May/June 1957. Budapest, Hungary)

Monthly Index of East European Accessions (MEAI) LC. VOL. 7, no. 2, February 1958

SZIDAROVSKY, J.; THOMA, F.; HARASZTI, G.

Strengthening steel bridges with posttensioned structures. p. 286.

MELYEPITESTUDOMANYI SZEMLE. (Kozlekedes- es Kozlekedesepitestudomanyi Egyesulet) Budapest, Hungary, Vol. 9, no. 6, June 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,  
August 1959.  
Uncla.

SZIDAROVSKY, J.

Approximate determination of the secondary stresses caused in bridge cross girders by the main truss chord elongations. In English. p. 335.

ACTA TECHNICA. (Magyar Tudomanyos Akademia) Budapest, Hungary, Vol. 25, no. 3/4, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11, November 1959,  
Uncl.

SZIDAROVSKY, J.

Determining the earth and foundation pressures acting on pier foundations. Acta techn Hung 27 no.3/4:245-271 '59. (EAI 9:6)

1. Uvateru (Entwurfsburo fur Strassen und Eisenbahnen) Budapest.  
(Soils) (Bridges)

SZIDAROVSKY, Janos

A new theory, taking into consideration inclination, of suspension  
bridges. Muszaki kozl MTA 25 no.1/4:89-140 '60. (EEAI 9:7)

1. Ut-, Vasuttervezo Vallalat, Budapest.  
(Bridges)

SZIDAROVSKY, J.

Stress analysis of an axially compressed bar under lateral loading.  
Acta techn Hung 31 no.1/2:125-138 '60. (EEAI 10:3)

1. Uvateru Entwurfsburo fur Strasses und Eisenbahnen, Budapest.  
(Steel) (Strains and stresses) (Rods)  
(Load (Mechanics))

SZIDAROVSKY, J.

Natural vibration of a bar under axial force, taking the effect of shear in consideration. Acta techn Hung 31 no.3/4:261-268 '60.  
(EEAI 10:4)

1. "Uvaterv" Highway and Railroad Planning Office, Budapest.  
(Steel) (Elasticity) (Strains and stresses)  
(Rods) (Vibration) (Shear (Mechanics))

SZIDAROVSKY, Janos (Budapest)

Practical calculation of a beam lying on an elastic bed. Muszaki  
kozl MTA 28 no.1/4:35-48 '61. (EEAI 10:9)

1. "UVATERV" Ut-Vasutervezo Vallalat, Budapest.

(Girders) (Elasticity)



SZIDAROVSKY, J.

Examination of accuracy of the Engesser-Vianello method and the Rayleigh quotient. Acta techn Hung 11 no.1/2:25-46 '62.

1. "UVATERV" Highway and Railroad Planning Office, Budapest.

SZIDAROVSKY, Janos

Natural vibrations of a rod loaded with axial forces taking rotational inertia into consideration. Muszaki kozl MTA 30 no.1/4:5-17 '62.

1. Ut-Vasutervezo Vallalat, Budapest.

SZIDAROVSKY, Janos

A gradually approximate method for solving a statical linear differential equation and its application in the field of suspension bridges. Muszaki kozl MTA 30 no.1/4:39-64 '62.

1. Ut-Vasutervezo Vallalat, Budapest.

SZEDAROVSKY, J.

Producing influence lines of suspension bridges with variable flexural rigidity by successive approximation. Acta techn Hung 41 no.1/2:139-161 '62.

1. Ut-Vasutervezo Vallalat - Highway and Railroad Planning Office, Budapest.

SZIDAROVSKY, Janos, okleveles mernok, irányító tervező

Role of electronic computers in engineering calculations.  
Melyepitestud szemle 13 no.6:275-285 Je '63.

1. Ut-Vasutervező Vállalat.

SZIDAROVSKY, Janos, okleveles mernok, irányító tervező

Organization of calculation performed by electronic computers.  
Mélyepitestud szemle 14 no.8/9:398-402 Af-S '64.

1. Road and Railroad Planning Enterprise, Budapest.

SZIDAROVSKY, J.

Two new practical methods to determine the critical loads for a compressed bar of variable flexural rigidity. Acta techn Hung 46 no. 3/4:261-285 '64.

1. "UVATERV" Highway and Railroad Planning Office, Budapest.

SZIP... okleveles mérnök, műszaki tanácsadó főmérnök

Preparation of calculations by electronic computers.  
Magyar Tudományos Akadémia Közleményei 15 no.1:21-24. Ja '65.

1. Ministry of Transportation and Postal Affairs, Budapest.



I, 44618-66 EWP(w) EM

ACC NR: MT6033127

SOURCE CODE: HU/2504/66/053/03-/0277/0296

AUTHOR: Szidarovszky, J.--Sidarovski, Ya.

45  
B+1  
26

ORG: Ministry of Communications, Budapest

TITLE: Practical method for the determination of bending moments in straight bars under combined bending and compression

SOURCE: Academia scientiarum hungaricae. Acta technica, v. 53, no. 3-4, 1966, 277-296

TOPIC TAGS: bending stress, material deformation, creep

ABSTRACT: The method for the determination of bending moments in straight bars under combined bending and compression, described by Dishinger, Fr., ("Verformung und Kriechen des Betons bei Bogenbrücken" [Deflection and Creep of Concrete in Arc Bridges]; Bauingenieur, vol. 1937, p. 487) for bars of constant section, was verified and extended for bars of variable section. The method was described and examples were presented to illustrate its application. Orig. art. has: 7 figures and 6 formulas. [Orig. art. in Eng.] [JPRS: 36,645]

SUB CODE: 20 / SUBM DATE: 09Dec60 / ORIG REF: 002 / OTH REF: 004

Card 1/1

blg

0920 0681

SZIEBERTH-HORVATH, E.

DONHOFFER, Sz.; VARNAI, I.; SZIEBERTH-HORVATH, E.

The immediate action of thyroxine derivatives on O<sub>2</sub>-consumption and body temperature in intact, hypophysectomized and thyroidectomized rats. Acta physiol. hung. 14 no.1:61-78 1958.

1. Institute of Pathophysiology, Medical University, Pecs.

(THYROXIN, related cpds.

eff. on oxygen consumption & body temperature in intact, hypophysectomized & thyroidectomized rats)

(RESPIRATION, eff. of drugs on

thyroxin deriv. on oxygen consumption in intact, hypophysectomized & thyroidectomized rats)

(BODY TEMPERATURE, eff. of drugs on

thyroxin deriv. in intact, hypophysectomized & thyroidectomized rats)

(HYPOPHYSECTOMY, exper.

eff. of thyroxin deriv. on oxygen consumption & body temperature in hypophysectomized rats)

(THYROID GLAND, physiol.

eff. of thyroxin deriv. on oxygen consumption & body temperature in thyroidectomized rats)

DONHOFFER, Sz.; VARNAI, I.; SZIEBERTH-HORVATH, E.

Immediate action of triiodothyronine on  $O_2$ -consumption and body temperature in the hypophysectomized and the thyroidectomized rat; the effect of adrenocorticotrophin and cortisone. Acta physiol. hung. 14 no.3:265-271 1958.

1. Institute of Pathophysiology, Medical University, Pecs.

(TRIIODOTHYRONINE, eff.

on body temperature and oxygen consumption in hypophysectomized rats, eff. of ACTH & cortisone)

(BODY TEMPERATURE, eff. of drugs on

triiodothyronine in hypophysectomized & thyroidectomized rats, eff. of ACTH & cortisone)

(OXYGEN, metab.

eff. of triiodothyronine on consumption in hypophysectomized & thyroidectomized rats, eff. of ACTH & cortisone)

SZIEPKA, G.; BENEGLI, E.; FOLDVES, I.

Morphologic changes in acute glomerulonephritis during advanced age;  
dissection and experimental dat. p. 73.

A MAGYAR TUDOMANYOS AKADEMIA V. OXZTALAY DOIGOLAI CSOPORTJANAK KOSZTMESEI.  
Budapest, Hungary. Vol. 3, no. 1, 1959.

Monthly List of East European Accessions (FEAI), LC, Vol. 9, no. 1, Jan. 1960

Uncl.

STOIA, I., Conf.; NITESCU, S., dr.; SZIFFERT, C., dr.

Clinico-humoral study and complex balneo-physiotherapy in  
spondylitis ankylopoietica. Med. intern., Bucur. 11 no. 12: 1841-  
1850 '59.

(SPONDYLITIS, ANKYLOSING, therapy)

(BALNEOLOGY)

(PHYSICAL THERAPY)

STOIA, I., dr.; STROESCU, I., dr.; STROESCU, O., dr. SZIFFERT, C., dr.

Spondyloses in the construction industry. Med. intern. 14 no.7:  
807-812 J1 '62.

(SPINAL DISEASES) (ARTHRITIS, RHEUMATOID) (OCCUPATIONAL DISEASES)  
(INDUSTRIAL MEDICINE) (BACKACHE)

SZIGAL, A. M.

Myocardial infarct: its various stages, prognosis and therapy.  
Orv. hetil., Budap. 92 no.30:964-969 29 July 1951. (CML 20:11)

1. Professor.

SZIGETHY, B.

Possibilities of planting fast-growing tree species in the territory of the Keletbukk forestry. p. 308.

AZ ERDO. (Orszagos Erdeszeti Egyesulet) Budapest, Hungary, Vol. 8, No. 8, Aug. 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11, November 1959,  
Uncl.



SZIGETHY, Laszlo, mezogazdasagi mernok

Remark about the dangerous effect of insecticides on animals.  
Erdo ll no.7:301-304 JI '62.

1. Allami Gazdasagok Foigazgatosaga, Budapest.

L 32145-66

SOURCE CODE: HU/2505/65/027/002/0145/0147

ACC NR: AT6023529

AUTHOR: Adam, Gyorgy; Heffler, Jozsef--Kheffler, Y.; Kovacs, Agota--Kovach, A.; 33  
Nagy, Aladar--Nad', A.; Szigeti, Agnes--Sigeti, A. B-1

ORG: Institute of Physiology, Medical University of Budapest (Budapesti Orvostudo-  
manyi Egyetem, Elettani Intezet)

TITLE: Electrographic test for the discrimination of intestinal stimuli 22

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 27, no. 2,  
1965, 145-147

TOPIC TAGS: digestive system, nervous system, reflex activity, dog

ABSTRACT: It has been demonstrated on dogs with a Thiry-Vella fistula and implanted chronic cortical electrodes that the higher nervous centers are capable of discrimination between afferent impulses coming from two points of the intestine provided that they are more than 5 cm apart. The capacity of visceral differentiation was demonstrated by the recording of habituation to the cortical electric arousal evoked by stimulation of a receptor area, and its effect on the impulses arriving from an adjacent receptor area. Orig. art. has: 2 figures. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06 / SUBM DATE: 18Feb64 / SOV REF: 001

LS  
Card 1/1

0915

1490

L 37523-66

ACC NR: AF6028460

SOURCE CODE: HU/0018/66/000/003/0275/0279

27  
B

AUTHOR: Bedo, Magdolna; Kemeny, Tibor; Szigeti, Agnes

ORG: National Institute of Nutrition and Dietetics, Budapest (Orszagos Elelmezes'es Taplalkozastudomanyi Intezet)

TITLE: Resorption of sunflower seed oil and swine fat in rats kept on a protein-free diet

SOURCE: Kiserletes orvostudomany, no. 3, 1966, 275-279

TOPIC TAGS: rat, protein, nutrition, sorption, biologic metabolism, digestion

ABSTRACT: The resorption of swine fat and sunflower seed oil was studied in rats kept on a high protein and a protein-free diet. It was found that the resorption of swine fat was more extensive in both experimental groups than that of the sunflower seed oil. A state of protein deficiency results in pronounced fluctuations in fat resorption. In the resorption mechanism taking place in the intestinal wall and requiring high energy phosphate compounds, there was always less ATP needed for the resorption of sunflower seed oil than for that of swine fat. The resorption of fats is independent of the qualitative and quantitative composition of their fatty acid components. The resorption mechanism of fats of different origin requires further elucidation. Hajnal Julia and Nagy Gyorgy served as technical assistants on this work. Orig. art. has: 6 figures.

[JPRS: 36,599]

SUB CODE: 06 / SUBM DATE: 16Jun65 / ORIG REF: 002 / OTH REF: 010

Card 1/1 mlp

7917 12/15

L 37797-66

ACC NR: AP6028461

SOURCE CODE: HU/0018/66/000/003/0280/0284

AUTHOR: Szigeti, Agnes; Bedo, Magdolna

ORG: National Institute of Nutrition and Dietetics, Budapest (Orszagos Elelmezes es Taplalkozastudomanyi Intezet)

TITLE: Effect of leucine on glucose resorption

SOURCE: Kiserletes orvostudomany, no. 3, 1966, 280-284

TOPIC TAGS: sorption, carbohydrate, leucine, rat, gastrointestinal tract, biochemistry, histology

ABSTRACT: The effect of leucine on glucose re-sorption as well as on the blood sugar and organ glycogen content was studied in rats. The results indicate the following: 1) Leucine has no effect on the resorption of glucose from the intestine. 2) The increase in blood sugar content in response to glucose administration is inhibited by leucine when it is administered together with glucose. Previous treatment with leucine has no effect. 3) The glycogen content of liver and muscles is not influenced to a significant degree by leucine. Hajnal Julia and Nagy Gyorgy served as technical assistants on this work. Orig. art. has: 7 figures. [JPRS: 36,599]

SUB CODE: 06 / SUBM DATE: 16Jun65 / OTH REF: 012

Card 1/1 *llh*

SZIGETI, G.

Country : CZECHOSLOVAKIA  
 Category : Chemical Technology. Chemical Products (Part 4).  
 Abs. Jour. : Ref Zhur-Khim, 1959, No 7, 25538  
 Author : Pollinszky, K.; Ochsensfeld, V.; Jonge, J. de;  
 Institut. : -  
 Title : Comments on the Technical Process of the Manu-  
 facture of Paris Blue  
 Orig Pub. : Chem. zvesti, 1957, 11, No 2, 98-106  
 Abstract : During the examination of the composition of the  
 white mass that appears as an intermediate pro-  
 duct in the production of Paris blue, it was  
 found that the white mass has the composition  
 $K_2Fe/Fe(CN)_6$  and adsorbs  $FeSO_4$ . The amount of  
 $FeSO_4$  adsorbed on the white mass depends on the  
 concentration of the original solutions. In the  
 process, well-known regularities of adsorption  
 \* Szigeti, G.

Card: 1/3

Orig. Pub. :  
 Abstract : are observed. The concentrations of the solu-  
 tions used, and the rate and course of the mix-  
 ing have an effect on the nature of the white  
 mass. The greatest influence on the composition  
 of the precipitate is exerted by the temperature  
 of the precipitation and the molecular ratio of  
 $FeSO_4 : K_4/Fe(CN)_6$ . Upon boiling the white  
 mass in acid solution, a desorption of  $FeSO_4$   
 occurs. By long-lasting boiling, a precipitate  
 of the composition  $K_2Fe/Fe(CN)_6$  may be obtained

Card: 2/3

H-138

Country : CZECHOSLOVAKIA  
Category : Chemical Technology. Chemical Products (Part 4).  
Lacquers. Paints. Coatings.

Abstr. JOUR. : Ref Zhur - Khim., No 7, 1959

Author :  
Institue. :  
Title :

Orig. Pub. :

Abstract : The quality of the pigment improves with in-  
crease of the K content, which depends on the  
composition of the white mass. The greater the  
K content, the brighter the pigment, the greater  
its covering capacity and the lighter its shade.  
-- V. Grintsev

Card: 3/3

SZIGETI, Gyorgy

Research Institute for Technical Physics, Hungarian Academy of  
Sciences. Fiz szemle 8 no.3:97-98 Mr '58.

1. "Fizikai Szemle" szerkeszto bizottsagi tagja.

SZIGETI, Gusztav, dr.

A committee dealing with the relationship between industry and foreign trade has been set up by the Federation of Technical and Scientific Associations. Musz elet 19 no.12:2 4 Je '64.

1. Federation of Technical and Scientific Associations,  
Budapest.



SZIGETI, GYORGY

Distr: 4E2c(m)

4  
MJC (LD)

✓ Reaction of sodium ferrocyanide with ferrous chloride in the presence of potassium salts. György Szigeti and Jenő Huttner (Univ. Chem. Ind., Veszprem, Hung.). *Veszpremi Vegyipari Egyetem Közleményei* 2, 311-16(1958).--  
 $\text{Na}_4[\text{Fe}(\text{CN})_6]$  soln. was added to  $\text{FeCl}_2$  soln. contg. various amts. of  $\text{KCl}$ . The white ppt. had a general compn. of  $(\text{Na},\text{K})_{4-x}\text{Fe}_x[\text{Fe}(\text{CN})_6]_y$ ; the exact compn. depended upon the  $\text{FeCl}_2:\text{Na}_4[\text{Fe}(\text{CN})_6]$  ratio used. Any  $\text{K}^+$  present was incorporated into the ppt. instantaneously. Acid aging of the pigment was carried out by adding  $\text{HCl}$  in various amts. and allowing the ppt. to stand for various periods of time at  $95^\circ$ . By washing the ppt. in  $\text{H}_2\text{O}$  prior to acid aging, and by oxidn. in the presence of  $\text{K}$  salts, a  $\text{Na}$ -free pigment could be obtained. In the course of aging, the alkali metal content of the ppt. approached or reached the  $(\text{Na},\text{K})_2\text{Fe}[\text{Fe}(\text{CN})_6]$  compn.; the rate of this transformation increased with increasing amt. of acid used in the aging.

21

MIC

G. J. Emyer

COUNTRY : HUNGARY H-8  
 CATEGORY :  
 ABS. JOUR. : RZKhim., No. 1959, No. 87110  
 AUTHOR : Henszelmann, F.; Jonge, J.; Sziget, G.  
 INST. :  
 TITLE : Preparation of Hydrocyanic Acid from Mixtures of Methane, Ammonia and Air.  
 ORIG. PUB. : Magyar Kem. lapja, 1958, 13, No 5-6, 183-185  
 ABSTRACT : Study of the process of making HCN. In the preparation of HCN from CH<sub>4</sub>, NH<sub>3</sub> and air, an increase of CH<sub>4</sub> content in the gaseous mixture (within definite limits) has a beneficial effect on its reaction with NH<sub>3</sub>. Increase of velocity of gaseous mixture results in decrease of HCN content in reaction mixture. On increase of the number of catalyst screens the yield of HCN is increased. Equipment and the quartz reactor used in the experiments are described. From authors' summary.

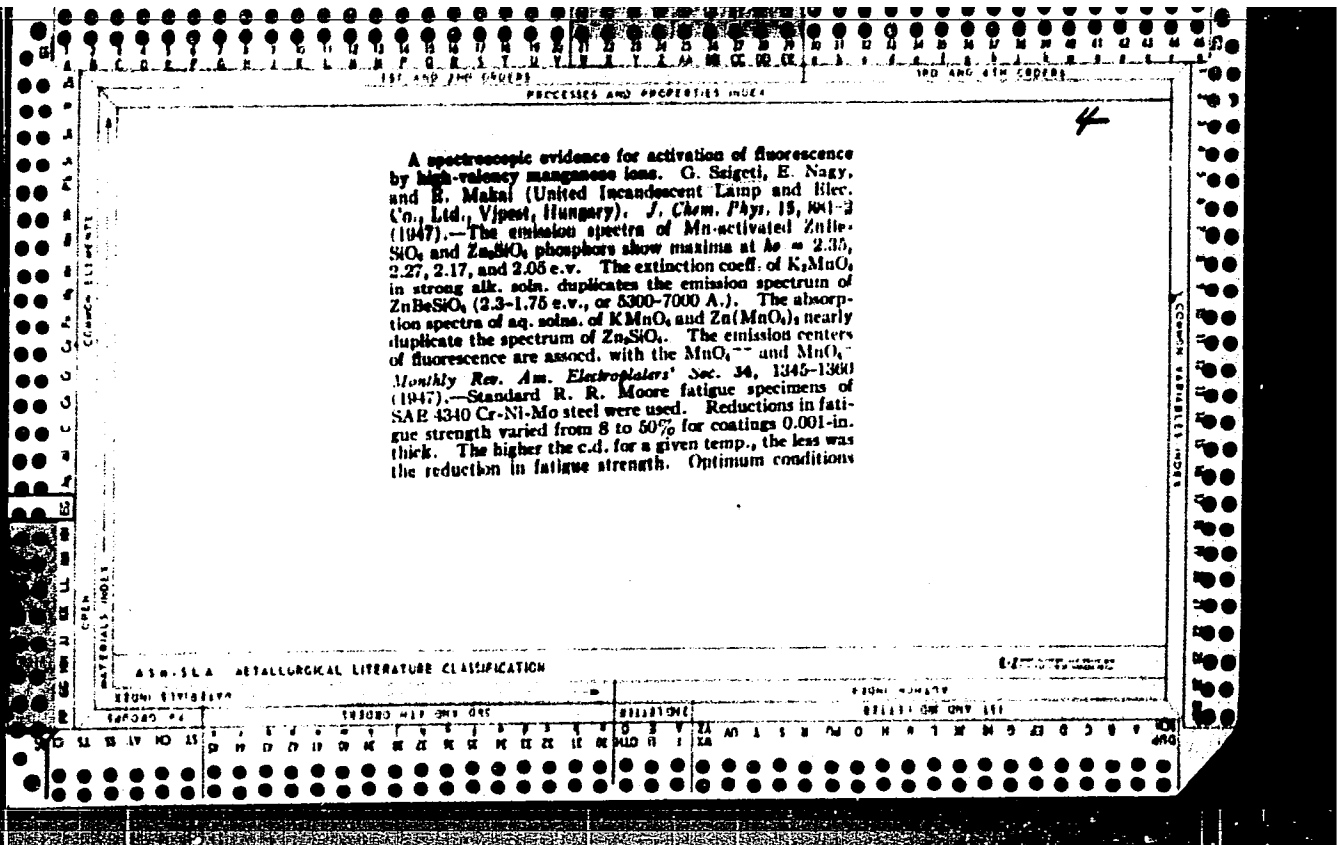
CARD:

176

Distr: 4E3d

1  
 Preparation of dibenzoyl peroxide. Béla Ráskai, Miklós Nádasy, Miklós Kovács, Frigyes Henszelmann, and György Sziget (Nébihévegyipari Kutató Intézet, Veszprém, Hung.). *Nébihévegyipari Kutató Intézet Közleményei* 1, 303-5 (1959).  
 Bz<sub>2</sub>O<sub>2</sub> (I) was prepd. at a 80-85% yield by adding to a mixt. of BzCl (II) and 10% H<sub>2</sub>O<sub>2</sub> soln. cooled to 5°, in small increments, 33% NaOH soln., allowing the temp. to increase to 20°, and stirring 3-4 hrs., with a high-speed stirrer. The crude I (contg. approx. 10% water, 5% benzoic acid (III), and NaCl) was purified by washing with 1:1 MeOH-water, filtering, and drying by aeration with hot air. The yield was low owing to the fact that the NaOH caused part of the II to hydrolyze into III. By using Na<sub>2</sub>CO<sub>3</sub> instead of NaOH at a pH < 12, prepn. of 89.0% pure I was possible at a 92-95% yield. To a mixt. of Na<sub>2</sub>CO<sub>3</sub> soln. and (excess) H<sub>2</sub>O<sub>2</sub>, II was added under stirring and the resulting crude I was purified as described above. The method was successfully used in the lab. and in pilot plant.  
 G. J. Brayel

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Luminescent materials, Szegedi, G. *Electrotechnika*,  
39, 70-3 (April); 81-6 (May, 1947) in Hungarian.  
A review of the most important applications of the  
various materials and of current theories on the lumines-  
cence of crystalline solids. An account is given of the  
author's work on the emission spectra and temp-  
dependence of the luminescence of Mn-activated Zn and  
Zn-Be silicates.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1st AND 2ND CIPHERS  
PROCESSES AND PROPERTIES INDEX  
3

Common Elements  
Common Valence Index

Luminescence and dielectric losses of zinc silicate.  
G. Szegedi and E. Nagy. *Magyaroségi Közlemények* 1948,  
No. 7, 115-30 (in English).--A method for obtaining  
emission spectra of luminescent materials superior to the  
one previously described (*C.A.* 43, 1822a) is described.  
The emission spectra of zinc silicate (1%  $MnCO_3$  added)  
and zinc beryllium silicate are given at room temp., the  
spectra of zinc silicate is given from 100°K. to 650°K.  
The cond. of the phosphors was also determined. De-  
creased luminescence with increasing temp. is interpreted  
in terms of the exponential increase. H. J. Bernstein

ASH-11A METALLURGICAL LITERATURE CLASSIFICATION  
FROM BOWEN  
1st AND 2ND CIPHERS

GROUP	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	00
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1ST AND 2ND GROUPS  
3RD AND 4TH GROUPS  
COMMON ELEMENTS  
COMMON VARIABLE INDEX  
OPEN MATERIALS INDEX  
METALLURGICAL LITERATURE CLASSIFICATION  
1ST AND 2ND LETTERS  
3RD AND 4TH LETTERS  
5TH LETTER

3

Dielectric losses and fluorescence of zinc silicate. G. Sziget and E. Nagy (United Incandescent Lamps and Elec. Co., Ltd., Ujpest, near Budapest). *Nature* 160, 641-2(1947).—At low temp. both the no. of quanta emitted on excitation and the elec. cond. of Mn-activated Zn silicate were const. At higher temp. the fluorescence shows a sudden decrease, while the cond. increases. R. W. S.

SZIGETI, GY.

SZIGETI, GY. The transistor; also, remarks by <sup>Z. Bodo</sup> Z. Bodo and others. p. 143

Vol. 16, No. 1, 1955

KOZLEMENYEI

TECHNOLOGY

Budapest, Hungary

So: East European Accession, Vol. 5, No. 5, May 1956

SZ 16 ETI, G

HUNG :

219. Electroluminescence excited by direct currents  
in silicon carbide crystals. G. SZIGETI. *Acta phys.*  
*Hungar.*, 4, No. 1, 65-78 (1959). ~~in German.~~  
Characteristics of electroluminescence are measured  
for different temperatures. The luminescence centres  
are assumed to be excess carbon atoms. An energy  
level scheme for SiC is proposed. G. F. J. GARLICK

BB



Szigeti, G.

HUNG.

Microphotometric measurements of electroluminescent silicon carbide single crystals. G. Szigeti, G. F. Bauer, and J. Weiszburg (Forschungsinst. Perimeterforsch. Inst. Budapest). Acta Phys. Acad. Sci. Hung. 4, 57-63 (1954) (in German).—The light intensity of the phenomena was measured under a microscope which was adapted to a microphotometer. In two tables the light intensities are shown as a function of the wave length and temp. of the crystal. The light efficiency decreases with the temp.

R. Schlossberger

PH  
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BB  
2/8

SZIGETI, Gy.

SCIENCE

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FIZIKAI SZEMLE Vol. 8, No. 3, March 1958

Szigeti, Gy. Research institute of Technical Physics Szigeti, Gy. of the  
Hungarian Academy of Sciences. p. 97

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2  
February 1959, Unclass.

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Problems related to the production and development of neon tubes.

p. 315 (Magyar Tudományos Akadémia. Műszaki Tudományok Osztálya. Közleményei.  
Vol. 20, no. 3/4, 1957. Budapest, Hungary)

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February 1958

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The effect of anode perturbation on the plasma of low pressure gas discharge. Acta phys Hung 11 no.1:103 '60. (EEAI 9:10)

1. Forschungsinstitut für Technische Physik der Ungarischen Akademie der Wissenschaften, Budapest. (for Szigeti). 2. Forschungsinstitut für Nachrichtentechnische Industrie, Budapest. (for Bito)

(Vacuum tubes)

(Electric discharges through gases)

(Anodes)

(Plasma (Ionized gases))