

S/081/62/000/002/009/107  
B149/B102

AUTHORS: Smirnova, V. E., Zul'fugarov, Z. G.

TITLE: Magnitude of the endothermic effect on thermal diagrams of alumino-silicates as a measure of their activity

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 2, 1962, 77, abstract 2B548 (Azerb. khim. zh., no. 2, 1961, 49 - 55)

TEXT: Thermal diagrams of synthetic alumino-silicate catalysts and their activity in the cracking of Groznyy petroleum gas-oil distillates have been studied. The possibility of estimating the catalytic activity from the intensity of the first endothermic effect has been shown. The effect of the various stages of preparation of catalysts on their activity is discussed. [Abstracter's note: Complete translation.] ✓

Card 1/1

ALIMARDANOV, G.I.; AGAMIRZOYEVA, Z.S.; ZUL'FUGAROV, Z.G.

Effect of  $Sr^{+2}$  and  $Cr^{+3}$  oxides on the stability of  $Cr^{+6}$  in chromium-  
aluminum-silicate catalysts. Dokl. AN Azerb. SSR 17 no. 11:1033-  
1037 '61. (MIRA 15:2)

1. Institut khimii AN AzSSR. Predstavleno akademikom AN  
Azerbaydzhanskoy SSR M.A. Dalinym.  
(Catalysts)

ZUL'FUGAROV, Z.G.; ALIMARDANOV, G.I.; AGAMIRZOYEVA, Z.S.

Effect of the chemical composition of chromaluminosilicate  
catalysts on their activity and chromium oxide forms, Azerb.  
khim. zhur. no.3:75-84 '62. (MIRA 16:12)

ZUL'FUGAROV, Z.G.; ALIYEV, A.S.; RASULOVA, S.M.; SMIRNOVA, V.Ye.

Thermographic method for determining the activity of natural  
and synthetic aluminosilicate catalysts. *Kin.i kat.* 3 no.4:  
565-571 JI-Ag '62. (MIRA 15:8)

1. Institut khimii AN Azerbaydzhanskoy SSR.  
(Aluminosilicates)

ZUL'FUGAROV, Z.G.

SOV/0197

PHASE I BOOK EXPLOITATION

Nauchnaya konferentsiya institutov khimii Akademiy nauk Azerbaydzhanskoys, Armyanskoy i Gruzinskoy SSR. Yerevan, 1957.

Materialy nauchnoy konferentsii institutov khimii Akademiy nauk Azerbaydzhanskoys, Armyanskoy i Gruzinskoy SSR (Materials of the Scientific Conference of the Chemical Institutes of the Academies of Sciences of the Azerbaydzhans, Armenian, and Georgian SSR) Yerevan, Izd-vo AN Armyanskoy SSR, 1962. 396 p. 1100 copies printed.

Sponsoring Agency: Akademiya nauk Armyanskoy SSR. Institut organizatsionnoy khimii.

Resp. Ed.: L. Ye. Ter-Minasyan; Ed. of Publishing House: A. G. Silkuni; Tech. Ed.: G. S. Sarkisyan.

PURPOSE: This book is intended for chemists and chemical engineers, and may be useful to graduate students engaged in chemical research.

Card 1/12  
2

Materials of the Scientific Conference (Cont.)

SOV/6195

COVERAGE: The book contains the results of research in physical, inorganic, organic, and analytical chemistry, and in chemical engineering, presented at the Scientific Conference held in Yerevan, 20 through 23 November 1957. Three reports of particular interest are reviewed below. No personalities are mentioned. References accompany individual articles.

TABLE OF CONTENTS:

PHYSICAL CHEMISTRY

Tsitsishvili, G. V., and Ye. D. Rosebashvili. Use of the Magnetic Method, in Studying Some Complex Cobalt Compounds	5
Nanobashvili, Ye. M., and L. V. Ivanitskaya. The Effect of $\gamma$ -Radiation on Colloidal Solutions of Gallium, Indium, and Thallium Sulfide	23
Zul'fugarov, Z. G., V. Ye. Smirnova and S. G. Muradova. The Effect of the Conditions of Synthesis and Formation on the	

Card 2/41

2

ZUL'FUGAROV, Z.G.; ALIYEV, A.S.; RASULOVA, S.M.

Study of the cracking activity of gilyabi of Gaymakly deposits of  
Kazakh District. Azerb.khim.zhur. no.6:77-84 '63. (MIRA 17:3)

ZUL'FUGAROV, Z.G.; ALIMARDANOV, G.I.

Redox reactions of chromium on a strontium silicate carrier.  
Dokl. AN Azerb. SSR 19 no.7:27-30 '63.

1. Institut khimii AN AzerSSR.

(MIRA 17:12)



ALIYEV, V.S.; ZUL'FUGAROV, Z.G.; YEFIMOVA, S.A.; KOZEYKO, T.A.

Selective adsorption of n-alkanes from the gasoline fractions  
of the Karadag condensate on a Ca-form zeolite. Azerb. khim.  
zhur. no.5:13-16 '63  
(MIRA 17:8)

ZUL'FUGAROV, Z.G.; BUNIYATZADE, A.A.; BAKHSHIZADE, A.A.; ALIMARDANOV, G.I.

Activity of chromium strontium silicate catalysts in the  
reaction of copolymerization of ethylene with  $\alpha$ -olefins.  
Azerb. khim. zhur. no.1:117-123 '64. (MIRA 17:5)

GUSEYNOVA, Z.A.; TOPCHIYEVA, K.V.; ZULFUGAROV, Z.I.

Effect of activating cations on the porosity and activity of  
metallo-silicate catalysts [in Azerbaijani with summary in  
Russian]. Azerb.khim.zhur. no.6:47-55 '59. (MIRA 14:9)  
(Catalysts) (Cations)

KULIYEV, A.M.; ZUL'FUGAROVA, A.G.; EL'OVICH, I.I.

Synthesis and study of antiwear additives based on the products of condensation of alkylbenzenes with chloral. Dokl. AN Azerb. SSR 21 no.5:20-24 '65. (MIRA 18:9)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

KULIYEV, A.M.; ZUL'FUGAROVA, A.G.; EL'OVICH, I.I.

Synthesis and study of antiwear additines based on condensation products of alkylphenols with chloral. Azerb. khim. zhur. no.3: 26-32 165. (MIRA 19:1)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

ZUL'FUGAROVA, I.Sh.; SHENI'KOVA, E.B.; MURADOVA, S.A.; AGDAMONIKY, T.A.

ZUL'FUGAROV, Z.G.

Effect of the chemical composition of iron carrier and promoter  
on the activity of chromium oxide catalysts. Azerb.khim.zhur.  
no.4:85-91 '61. (MIRA 14:11)

(Polymerization)  
(Catalysts)

ZUL'FUGAROVA, L.Sh.; MURADOVA, S.A.; SHIRINOVA, E.B.; AGDAMSKIY, T.A.;  
SMIRNOVA, V.Ye.; VEZIROVA, V.R.; ZUL'FUGAROV, Z.G.

Effect of the conditions of polymerization and of the porous  
structure on the activity of chromium-aluminum-magnesium  
silicate catalysts. Azerb.khim.zhur. no.5:87-90 '61.

(MIRA 15:5)

(Polymerization) (Porosity) (Catalysts)

5 1190

24449  
S/081/61/000/006/015/015  
B101/B201

AUTHORS: Zul'fugarov, Z. G., Zul'fugarova, L. Sh., Muradova, S. A.,  
Shirinova, E. B., Agdamkiy, T. A., Aliyev, A. S.

TITLE: Study of the activity of chromium aluminum magnesium  
silicate catalysts in the polymerization reaction of  
ethylene to polyethylene

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 6, 1961, 711-712,  
abstract 6P87 (6R87) ("Azerb. khim. zh.", 1960, no. 2,  
107-115)

TEXT: A study has been made of new types of chromium aluminum magnesium  
silicate catalysts (Cat) in the polymerization of ethylene to polyethylene,  
and of the activity of Cat as dependent upon the method of their introduc-  
tion into the chromium oxide. The activity of Cat has been shown essen-  
tially to depend on the method of synthesis, the chemical composition of  
the carriers having no appreciable effect upon such activity. The optimum  
ratio of Cr<sup>6+</sup> and Cr<sup>3+</sup> oxides in the chromium metasilicate catalysts  
concerned has been found to be 40-55 : 45-60; the maximum polymer yield per

Card 1/2



Study of the activity of chromium...

S/081/61/000/006/015/015  
B101/B201

g of Cat has been 92 and 114 g, respectively. No relationship has been observed between the catalytic activity of Cat and their thermograms, their porosity, specific pore volume, and apparent density. All the polymers obtained have been found to have a highly crystalline structure. The authors assumed the active part of chromium catalysts to consist of salts of chromous acid or acid salts of chromic acid. [Abstracter's note: Complete translation.]

Card 2/2

L 29530-66    EWP(j)/EWT(m)/T    IJP(c)    RM

ACC NR: AR6004374

SOURCE CODE: UR/0081/65/000/015/S027/S027

AUTHOR: Zul'fugarov, Z. G.; Zul'fugarova, L. Sh.; Muradova, S. A.; <sup>42</sup>  
Alimardanov, G. I.      B

TITLE: Effect of the chemical composition of the carrier and promoter  
on the catalytic activity and form of chromium in polymerization

SOURCE: Ref. zh. Khimiya, Abs. 15S160

REF SOURCE: Sb. Nauchn. osnovy podbora i proiz-va katalizatorov.  
Novosibirsk, Sib. otd. AN SSSR, 1964, 288-295

TOPIC TAGS: ~~polymer~~, polymerization catalyst, chromium oxide, nickel,  
cobalt, iron, *CHROMIUM, CHEMICAL COMPOSITION*

ABSTRACT: The effect of the chemical composition of the carrier,  
the amount of  $Cr^{+3}$  in hydrogel,  $CrO_3$ ,  $K_2CrO_4$ , Ni, Co and Fe on the  
activity and form of chromium oxides as a compound in chromalumosili-  
cate, chromalumomagnesiumsilicate and a chromomagnesiumsilicate  
catalyst, were studied and the relationship between the factors deter-  
mined. The synthesis of the carriers was carried out by coprecipitation  
or substitution, and the synthesis of catalysts, by the method of

Card 1/2

L 29530-66

ACC NR: AR6004374

depositing chromium hydroxide on the carrier and by enriching the chromium-containing carrier with chromium anhydride. The activation of the catalyst was performed by oxidizing it by air for 5 hours at 480-510° with a speed of air flow equal to 400 volume units of air for one volume of catalyst per hour. The yield of polyethylene per lkg of the catalyst obtained in one working cycle was used as a criterion of catalyst efficiency. V. Agasandyan.

SUB CODE: 07/ SUBM DATE: none

Card 2/2 JS

AGALAROV, Ch.S.; ALESKEROV, S.A.; GEL'MAN, M.M.; GINZBURG, M.Ya.; IBRAGIMOV,  
I.S.; ZUL'FUGARZADE, E.; MAMEDLI, E.M.

"Information converter for electronic digital computers" by E.I.  
Gitis. Reviewed by Ch.S. Agalarov and others. Izv. tekh. no. 7:  
64 JI '62. (MIRA 15:6)

(Electronic digital computers)  
(Gitis, E.I.)

ACC NR: AP7009560

SOURCE CODE: UR/0233/66/000/002/0071/0075

AUTHOR: Zul'fugarzade, E. E.; Mayorov, F. V.

ORG: none

TITLE: Compatibility of machines in a particular computing complex

SOURCE: AN AzerbSSR. Izvestiya. Seriya fiziko-tekhnicheskikh i matematicheskikh nauk, no. 2, 1966, 71-75

TOPIC TAGS: digital computer, algorithm

SUB CODE: C9, 12

ABSTRACT: The machine compatibility considered includes uniform programming, easy recoding of one machine program into the languages of the other machines of the complex, the selection of registers of the various machines and the recoding of words in one format into words of another format, and the management and exchange of information between the machines in the complex. Problems involved depend largely on the cycling speeds of the arithmetic units, operational memories, I/O units, the structures of the functional algorithms, and system configurations in the light of machine compatibility.

The complex studied consists of digital computers and digital-incremental machines. The organization of the various parts of the system to solve various problems is considered in detail. Orig. art. has: 2 figures and 9 formulas.  
[JPRS: 39,848]

Card 1/1

UDC: none

0033 1094

L 27683-66 ENT(d)/T/EMP(1) LJP(c) GG/BB  
ACC NR: AP6005612 SOURCE CODE: UR/0233/65/000/003/0103/0107

AUTHOR: Genis, Ya. G.; Zul'fugarade, E. E.

43  
B

ORG: none

TITLE: Microprogram control of a serial digital computer

SOURCE: AN AzerbSSR. Izvestiya. Seriya fiziko-tekhnicheskikh i matematicheskikh nauk, no. 3, 1965, 103-107

TOPIC TAGS: digital computer, computer program, electronic computer

ABSTRACT: Based on the M. V. Wilkes (Proc. EJCG, Phila., 1958, pp. 18-20) and T. Kampe (IRE Trans., 1960, EC-9, no. 2, pp. 208-213) articles, the advantages of microprogramming as compared to conventional subroutine programming are shown, and an example of microprogramming a "polynomial-evaluation" problem is given. The microprogramming discussed in the article is intended for a serial digital computer with a single-address command system. A binary digit (micro operand) of the microcommand word corresponds to each micro operation and realizes definite control actions. A block diagram of microprogramming is shown. Orig. art. has: 3 figures, 2 formulas, and 2 tables.

SUB CODE: 09 / SUBM DATE: 25Dec64 / ORIG REF: 000 / OTH REF: 002

Card 1/1 CC

IMANOV, L.M.; ZUL'FUGARZADE, K.E.

Temperature dependence of the complex dielectric permeability  
of chlorobenzene and bromobenzene at a wave length of 11.5 cm.  
Izv. AN Azerb. SSR. Ser. fiz.-mat. i tekhn. nauk no. 6:117-127  
'60. (MIRA 14:8)

(Benzene--Electric properties)

S/058/61/000/010/063/100  
A001/A101AUTHORS: Imanov, L.M., Zul'fugarzade, K.E.

TITLE: Temperature dependence of the complex dielectric constant of chlorobenzene and bromobenzene on the 11.5-cm wavelength

PERIODICAL: Referativnyy zhurnal, Fizika, no. 10, 1961, 222, abstract 10D41  
("Izv. AN AzerbSSR. Ser. fiz.-matem. i. tekhn. n.", 1960, no. 6, 117-127, Azerb. summary)

TEXT: Dielectric dispersion of polar liquids was studied by investigating the temperature dependence of complex dielectric constant  $\epsilon^* = \epsilon' - j\epsilon''$  at a fixed frequency. Liquids were poured into a short-circuited section of a coaxial line, maintained at a constant temperature, whose input impedance was measured by the method of measuring line. The authors present the results of measuring  $\epsilon^*$  for a number of polar liquids (n-butyl alcohol, chlorobenzene (I) and bromobenzene (II)) on the wavelengths 11.5 and 19.0cm. Temperature dependences of  $\epsilon^*$  are obtained on the 11.5-cm wavelength in the temperature range from -90 to +20°C. With decreasing temperature, at melting points (-45°C for (I) and -30.6°C for (II)) occurs the sharp decrease of  $\epsilon'$  and  $\epsilon''$  and relaxation time  $\tau$ .

Card 1/2



Temperature dependence ...

3/058/61/000/010/063/100  
A001/A101

Activation energies (U) in liquid state are determined from the slope of the  $\ln \tau - 1/T$  straight line:  $1.34 \times 10^{-13}$  erg for (I) and  $1.42 \times 10^{-13}$  erg for (II). In solid state intermolecular interaction can not be characterized by one value of U, since the  $\ln \tau - 1/T$  relation is not a straight line in this case.

V. Petrov

[Abstracter's note: Complete translation]

Card 2/2

IMANOV, L.M.; ZUL'FUGARZADE, K.E.

Temperature dependence of dielectric relaxation in concentrated  
solutions of certain halogen derivatives of benzene. Izv. AN  
Azerb. SSR. Ser. fiz.-mat. i tekh. nauk no.6:75-82 '62. (MIRA 16:6)  
(Dielectric constant) (Benzene)

IMANOV, L.M.; ZUL'FUGARZADE, K.E.

Dielectric relaxation in some halogen derivatives of benzene.  
Zhur.fiz.khim. 37 no.2:366-370 F '63. (MIRA 16:5)

1. Institut fiziki AN AzerbSSR.  
(Benzene derivatives) (Dielectric constants)

IMANOV, L.M.; ZUL'FUGARZADE, K.E.

Dielectric properties of the concentrated solutions of monohalo-  
substituted benzenes in a microwave range. Zhur. fiz. khim. 38  
no.10:2437-2440 O '64. (MIRA 18:2)

1. Institut fiziki AN Azerbaydzhanskoy SSR.

L 2527-66

ACCESSION NR: AP5021361

UR/0120/65/000/002/0192/0195  
621.317.335.3

2/  
B

AUTHORS: Imanov, L. M.; Zul'fugarzade, K. E.

TITLE: Measurement of the temperature dependence of complex dielectric permittivity at microwave frequencies

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1965, 192-195

TOPIC TAGS: dielectric permittivity, dielectric constant, dielectric loss, temperature dependence, microwave frequency

ABSTRACT: Apparatus for measuring the dielectric coefficients in the 3- to 14-cm region is described in detail. The method used is a transformer modification of the short-circuited line method. The effect of parasitic reflections can be separated from the inherent reflection from the sample after determining the characteristics of the transformer, which is formed by adjacent sections of transmission line and to whose output the sample is coupled. Losses do not affect the accuracy of measurement, and measurements of the temperature dependence are greatly simplified. The dielectric coefficients can be measured within an accuracy of 5% with proper selection of sample thickness. As an illustration, the dielectric

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L 2527-66

ACCESSION NR: AP5021361

coefficients at 12.80 cm of iodo-benzene--n-hexane solutions are presented for the temperature range -100 to +20C. Orig. art. has: 5 formulas, 5 figures, and 1 table. [04]

ASSOCIATION: Institut fiziki, AN AzerbSSR, Baku (Institute of Physics, AN Azerb SSR)

SUBMITTED: 29May64

ENCL: 00

SUB CODE: EG, EM

NO REF SOV: 004

OTHER: 002

ATD PRESS: 4108

*beb*  
Card 2/2

IMANOV, I.M.; MIRZOYEV, F.G.; ZUL'FUGARZADE, K.E.

Dielectric properties of some aliphatic alcohols in the micro-  
wave range. Zhur.fiz.khim. 39 no.11:2836-2839 N 165.  
(MIRA 18:12)

1. Fizicheskiy institut AN Azerb.SSR.

GOGISHVILI, V.G.; ZULIASHVILI, T.G.; KALANDARISHVILI, N.A.

Alteration of ore enclosing rocks of sulfide deposits in  
the Alaverdi ore region and their prospecting importance,  
Geol. sbor. [Kavk.] no.2:187-211 '62. (MIRA 17:1)



ZULIK, R, 1951

(11 Med. Clin. Univ. of Budapest)

"Hyperlipaemia Induced by Streptomycin."

Lancet, 1951 2/2(81)

Abst: Exc. Med. 11, Vol. 5, No. 4, p. 525

2017, 7.  
FOSOMYI, L.; POLLAK, L.; JUHASZ, J.; ZULIK, R.

Streptomycin hyperlipemia. Wien. Zschr. Inn. Med. 33 no.9:  
384-92 Sept 52. (CML 23:3)

1. Of the Second Medical Clinic (Head—Prof. E. HAYNAL, M.D.)  
of Budapest University.

MOSONYI, Laszlo,; LASZLO, Janos,; ZULIK, Robert,; FERRO, Csaba.

Effect of streptomycin on the normal tissue. Kiserletes orvostud  
7 no.4:408-413 July 55.

1. Budapesti Orvostudományi Egységen II. sz. Belklinikája és I. sz.  
Korbonctani Intézete.  
(STREPTOMYCIN, effects,  
on normal tissue)

ZULIK, Robert, dr.

Bleeding form of infectious mononucleosis. Orv. hetil. 96 no.32:  
893-894 7 Aug 55

1. A Budapesti Orvostudományi Egyetem II. sz. Belklinikájának  
(igazgató: Haynal Imre dr. egyet. tanár) Közleménye.  
(INFECTIOUS MONONUCLEOSIS,  
bleeding form)

Internal Medicine Oct 56

6039. ZULIK R. Budapesti Orvostudományi Egyetem II. sz. Belklinik. Budapest.  
A mononucleosis infectiosa vérszámkeljárás alakja. A haemorrhagic  
form of infectious mononucleosis ORV. HETIL. 1956, 86/32  
(893-894)

Two cases are described one of which presented macroscopic haematuria and the other melaena without other haemorrhagic manifestations. In both the blood count suggested mononucleosis and the Paul-Bunnell was positive in 1/64 and 1/256, respectively. The spleen was enlarged in both, but the glands were not palpable. The platelet count was reduced to 90,000 and 70,000 respectively. The bleeding time was normal.

Lorber - Sheffield (XK. 7. 6)

RECERPTA MEDICA Sec 7 Vol 10/10 Pediatrics Oct 56

2210. ZULIK R. Budapesti Orvostudományi Egyetem II. sz. Belklin., Budapest.  
A mononucleosis infectiosa vérzéssel járó alakja. A haemorrhagic  
form of infectious mononucleosis ORV. HETIL. 1955, u6/32  
(803-804)

Two cases are described, one of which presented macroscopic haematuria and the other melaena without other haemorrhagic manifestations. In both the blood count suggested mononucleosis and the Paul-Bunnell was positive in 1/64 and 1/256, respectively. The spleen was enlarged in both, but the glands were not palpable. The platelet count was reduced to 90,000 and 70,000, respectively. The bleeding time was normal.  
Lorber - Sheffield (XX, 7, 8)

ZULIK, Robert, dr.; MATSCH, Jenő, dr.

Circumscribed myxedema. Orv. hetil. 97 no. 11:301-303  
11 March 56.

1. A Budapesti Orvostudományi Egyetem II. sz. Belgyógyászati  
Klinikájának (igazgató: Haynal, Imre dr. egyet. tanár)  
közleménye.

(MYXEDEMA

circumscribed. (Hun))

SULIK, Robert, Dr.; MESZAROS, Antal, Dr.

Interesting combinations of syndromes with hypophyseal-hypothalamic origin. Orv. hetil. 100 no.7:263-266 15 Feb 59.

1. A Budapesti Orvostudományi Egyetem II. Belklinikájának Közleménye.  
(ENDOCRINE DISEASES  
combined endocrine synd., diag. & ther. difficulties (Hun))



EXCERPTA MEDICA Sec 16 Vol 7/5 Cancer May 59

1651. Treatment of malignant diseases of the lymphoid and reticular systems with a new nitrogen mustard Die Therapie maligner Erkrankungen des lymphoiden und retikulären Systems mit einem neuen Stickstoff-Lost-Derivat. Zentr. R. II. Med. Univ.-Klin., Budapest *Arzneimittel-Forsch.* 1958, 9/6 (360-361)

Mannomustine (1:6-bis(2-chloroethylamino)-1:6-bisdesoxy-D-mannitol; BGM) shows interesting therapeutic activity in Hodgkin's disease and lymphoid leukaemia. Its potency is about the same as that of chlormethine but its lower toxicity permits the use of doses 10 to 20 times as large.

Goffart - Liège

EXCERPTA MEDICA Sec 6 Vol 13/o Internal Med Sept 50

5091. TREATMENT OF MALIGNANT DISEASES OF THE LYMPHOID AND RETICULAR SYSTEMS WITH A NEW NITROGEN MUSTARD · Die Therapie maligner Erkrankungen des lymphoiden und retikulären Systems mit einem neuen Stickstoff-Lost-Derivat - Zullk R. H. Med. Univ.-Klin., Budapest - ARZNEIMITTEL-FORSCH. 1958, 9/6 (360-361)

Mannomustine (1:6-bis(2-chloroethylamino)-1:6-bisdesoxy-D-mannitol; BCM) shows interesting therapeutic activity in Hodgkin's disease and lymphoid leukaemia. Its potency is about the same as that of chlormethine but its lower toxicity permits the use of doses 10 to 20 times as large. Goffart - Libge (II, 5, 6, 16)

... EXCERPTA MEDICA Sec 6 Vol 14/6 Internal Med. Juno 60

4092. A RARE COMBINATION OF HYPOPHYSEAL-HYPOTHALAMIC DISEASES - Seltene Kombination hypophysär hypothalamischer Krankheiten - Zullk R. and Mészáros A; II. Med. Univ.-Klin., Budapest - WIEN. MED. WSCHR. 1959. 109/17 (364-367) illus. 4

A description is given of 2 cases; a definitive anatomical elucidation is not given. The first case was a 24-year-old woman with congenital gigantism in whom the following signs had developed since 1 yr. approximately: Obesity, red striae, hypomenorrhoea, mild diabetes insipidus, and bilateral papilloedema (2-3 diopters). The CSF and the aerogram of the cerebral ventricles were normal. A 'tumorous process' in the inferior part of the hypothalamus, in the tubero-infundibular region, is assumed. No anatomical objectivation is given. The 2nd case was a 22-year-old man of eunuchoid type with hypogonadism which had been present even before puberty and gynaecomastia. In the past 4 yr. adiposity accompanied by livid striae developed. The analyses of the hormones and the testicular biopsy indicated a hypophyseal Cushing's syndrome accompanied by 'pseudo' Klinefelter's syndrome. No definitive anatomical information is given. In both cases there is an initial endocrine disorder followed by another endocrine disease.

Wedler - Braunschweig (VI. 3)

KEREKES, Erno, dr.; ZULIK, Robert, dr.; FUZI, Miklos, dr.; CSOKA, Rozsa, dr.

Occurrence of Weil's disease in personnel caring for laboratory animals. Orv. hetil. 102 no.27:1278-1281 2 Je '61.

1. Budapesti Orvostudományi Egyetem, III sz. Belklinika es Mikrobiologiai Intezet.

(WEIL'S DISEASE statist)  
(OCCUPATIONAL DISEASES statist)  
(ANIMALS, LABORATORY)

GERGELY, Janos; JAKAB, Lajos; MITUSZOVA, Mila; SZINAY, Gyula; ZULIK, Robert.

Studies on beta-myeloma proteins with special reference to their antigenic properties. Magy. belorv. arch. 14 no.5:177-181 0 '61.

1. A Budapesti Orvostudományi Egyetem III sz. Belklinikájának közleménye (mb. tanszékvezető: Gero Sándor)

(MYELOMA immunol) (ANTIGENS) (PROTEINS chem)  
(ELECTROPHORESIS)

HUNGARY

ZULIK, Robert, Dr, WELER, Laszlo, Dr; Medical University of Budapest,  
III Medical Clinic (Budapesti Orvostudományi Egyetem, III. Belklinikai).

"Diagnosis of Heart Muscle Infarcts Around the Base."

Budapest, Orvosi Hetilap, Vol 104, No 10, 10 Mar 1963, pages 454-456.

Abstract: [Authors' Hungarian summary] Based on a literature survey and two cases, the authors discuss the diagnostics of highly localized front wall infarcts. The EKG changes are analyzed in detail. In every case of suspected infarct where under normal chest leads a change in the aVL lead suggests infarct, the authors recommend the use of the T<sub>2</sub> and V<sub>4</sub> leads in the second and third intercostal space. 1 Hungarian, 9 Western references.

1/1

ZULIK, Robert, dr.; KELLER, Laszlo, dr.

Diagnosis of high (peribasal) myocardial infarct. Orv. hetil. 104  
no.10:454-456 10 Mr '63.

1. Budapesti Orvostudományi Egyetem, III. Belklinika.  
(MYOCARDIAL INFARCT) (ELECTROCARDIOGRAPHY)

KELLER, Laszlo, dr.; MOLNAR, Gyula, dr.; ZULIK, Robert, dr.

Evaluation of the vasodilator effect of intra-arterial Mydeton  
in dogs. Orv.hetil. 105 no.6:250-251 9 F'64.

1. Budapesti Orvostudományi Egyetem, III. Balclinika.

\*



ZULINSKI, R.

Research on the dissolubility of limestone of Polish origin. p. 66.  
CEMENT, WAPNO, GIPS, (Panstwowe Wydawnictwa Techniczne) Krakow. Vol. 10, No. 4,  
Apr. 1954.

SOURCE: East European Accessions List (EEAL), Library of Congress,  
Vol. 5, No. 7, July 1956.

Polish Technical Abst.  
No. 4, 1953  
Chemistry and Chemical  
Technology

2443

631.82:622.332

Litynski T., Zulinski R., Zak Z. The Fertilizing Value of Polish Brown Coal.

Wartosc nawozowa krapjowego wegla brunatnego. Przemysl Chemiczny, No. 12, 1952, pp. 554-563, 3 figs., 4 tabs. Since certain chemical difficulties may occur in the use of ammonia as a liquid nitrogen fertilizer the authors propose the use for this purpose of Polish brown coal saturated with ammonia. Properly prepared coal-ammonia products contain about 25% or 5% of ammonia; the entire quantity of nitrogen introduced with these preparations is available to plants, and in addition to the nitrogen a quantity of humus appears in a water-soluble form. Since humus stimulates the growth of plants, the fertilizing efficiency of coal-ammonia products may be higher than that of pure ammonia or of coal individually. This is made possible the introduction into agriculture of both ammonia and indigenous brown coal as crop improvers.

ZULINSKI, T.

The first five years of the Veterinary School of the Marie Curie-Sklodowska University in Lublin; a historical sketch. p. 281. (MEDYCINA WETERYNARYJNA. Vol. 9, no. 6, June 1953)

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954



GRIGOR'YEV, Ivan Grigor'yevich; ZULIN, Vladimir Vasil'yevich;  
PETROPOL'SKAYA, N.Ye., red.; DURASOVA, V.H., tekhn. red.

[Electrical conductivity as a means for analyzing gaseous and  
liquid systems] Elektroprovodnost' kak metod analiza gazovykh i  
zhidkikh sistem. Kuibyshev, Kuibyshevskoe knizhnoe izd-vo,  
1961. 21 p. (MIRA 16:3)  
(Electric conductivity) (Electrochemistry)

POLAND

BOJARSKI, Jan and ZULINSKA, Wanda, Chair for the Hygiene of Animal Products (Katedra Higieny Produktow Zwierzeczych), Veterinary Division (Wydzial Weterynaryjny), WSR [Wyzsza Szkola Rolnicza, Higher School of Agriculture] in Lublin (Director: Docent, Dr. Edmund PROST)

"The Value of Some Methods for the Differentiation of the Types of Mycobacterium Tuberculosis."

Warsaw-Lublin, Medycyna Weterynaryjna, Vol 19, No 3, Mar 63, pp 158-162.

Abstract: [Authors' English summary modified] Tests carried out with known 20 strains of Myc. tuberculosis, 14 strains of Myc. bovis, 12 strains of Myc. avium, and 7 strains of saprophytic bacteria revealed that identification was a) Most effective with biological tests on animals, b) Least effective with microscopic differentiation, c) Solid culture media are effective for Myc. tuberculosis, d) Petragni's medium is satisfactory for differentiation of Myc. avium, and that e) niacin test (Peknice) can serve as an auxiliary test for Myc. tuberculosis. The 21 refs are Polish in 7 cases, and English or German in the rest.

1/1

PROCESSED AND REPRODUCED FROM THE ORIGINAL SOURCE

A 53

SA

249. Specific Heat and Heat of Fusion of Calcium and Magnesium.  
 E. Zelenka and R. Zelenka. *Acad. Poloniar Sci. et Lettr., Bull.*  
 9-10a. pp. 479-505, Nov.-Dec., 1918. In German.

After a review of previous literature and a statement of the values therein recorded, the authors give details of their method to obtain the mean specific heat of calcium in the range 150° to its melting point, 810°. Magnesium was treated in like manner, and in both cases the heat of fusion was determined both by calorimetric methods and by observation of the time of crystallization. The results are set out in the following table:—

over

ASB-56A 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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C.A.

15

The influence of multiple mineral fertilizer on the pH of soil. Tadeusz Lityński and Roman Zającki (Inst. Agr. Chem., Jagellonian Univ., Cracow, Poland). *Polish Acad. Sci. Rozprawy Wydziału Mat. Przyrod. T2A*, No. 3, 3-9 (in English, 10-11) (1946) (Pub. 1948). - Some plots received  $\text{NH}_4\text{NO}_3$ ,  $\text{CaH}_2(\text{PO}_4)_2$ , and  $\text{K}_2\text{SO}_4$ , others only 2 of these salts; control plots were run with no addn. of fertilizers. Some plots were limed, in others lime was omitted. pH detns. of various soil samples showed that the most acid reaction was exhibited by unlimed soils which had received all 3 salts; second were limed plots with addn. of N and K, then those limed and receiving N and P, then those limed plus all three minerals, and last the limed ones with addn. of P and K only. A. H. Kofler



Fertilizer value of Polish brown coal. III. Sorption of ammonia by the coal. I. Lotwicki, R. Zubinski, and Z. Zak *Prace Inst. Chem. 8: 594-61 (1958)*.  
The coal has a cation exchange capacity of 170 meq. per 100 g. filled normally by metal cations  $Ca^{2+}$ ,  $NH_4^+$ ,  $Na^+$ , and  $H^+$ . 50 meq. of the coal with  $NH_4^+$  in damp air gives a product contg. 1.28 meq. of  $NH_4^+$  per 100 g., which readily gives up  $NH_4^+$  to  $H_2O$  or 2% aq. citric acid. At the same time up to 7% of the organic acids pass into solution. The ammoniated brown coal should be a valuable fertil. agent.

CH

2

[Faint, mostly illegible text, possibly a memorandum or report, with some lines of text visible.]



CA 15

"Kali," a new native [Poland] potassium fertilizer. Tadeusz Lityński and Roman Żuliński (Jagellonian Univ., Cracow). *Przegląd Chem.* 5, 64-8 (1947). -- The fertilizer is obtained from "distiller's wash-char" produced from molasses residue. It contains 11% K<sub>2</sub>O and differs from plant ash in its greater CaCO<sub>3</sub> content. Expts. with radishes show it to be in no way inferior to potassium fertilizers contg. KCl and K<sub>2</sub>SO<sub>4</sub>. A. Spozrynski

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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ZULIŃSKI, T.; ZADURA, J.

Leptospirosis in silver foxes. Med.wet. 6 no.2:83-84 F '50.  
(CJML 19:3)

1. Of the Institute of General Pathology and Pathological Anatomy of Marie Curie-Skłodowska University in Lublin and of the Department of Pathological Anatomy of the National Veterinary Institute in Pulawy (Head -- Tadeusz Zulinski, M.D.).

ZULINSKI, T.

Parnas, J., Zulinski, T., Lorkiewicz, Zb.: "Komplexe Forschungen ueber die Forkolgrippe in dem Staatgutern" (Complex studies on pig influenza), Archiv fur experimentelle Veterinarmedizin. VI.93., 1952.

ZULINSKI, Tadeusz

POLAND/Diseases of Farm Animals. Diseases Caused by Viruses  
and Rickettsiae.

R

Abs Jour: Ref Zhur-Biol., No 5, 1958, 21580.

Author : Zulinski, Tadeusz

Inst :

Title : Histopathological Diagnosis of Infectious Anemia  
in Horses.

Orig Pub: Roczn. nauk rolniczych, 1956, E67, No 3, 375-386.

Abstract: Described are characteristic histological changes  
in the liver and spleen of horses suffering from  
infectious anemia. In two of the cases analogous  
changes were discovered in the liver and spleen  
of swine, having contact with sick horses, but  
without clinical symptoms of the disease.

Card : 1/1

Zulinski, T.

POLAND/Diseases of Farm Animals. Diseases Caused by Viruses  
and Rickettsiae.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40660

Author : Zulinski, T., Szuperski, T.

Inst :

Title : Infectious Papillomatosis of the Oral Cavity in  
Silver Foxes.

Orig Pub: Med. weteryn., 1957, 13, No 2, 73-75.

Abstract: An outbreak of the disease on one of the animal  
farms is described. Within two years, 60 percent  
of the total animal population were afflicted.  
The clinical symptoms are: salivation, difficulties  
in feeding, sometimes loss of teeth. Warted forma-  
tions were found on the gums, in the form of con-

Card : 1/2

37

POLAND/Diseases of Farm Animals. Diseases Caused by Viruses R  
and Rickettsiae.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40660.

nective frames and epithelial layers without malignant  
symptoms. Autotherapy was noted, as well as the  
development of immunity in animals who have recovered  
from the disease.

Card : 2/2

POLAND/Zooparasitology. Parasitic Protozoa. 8600513R002065620003-7  
APPROVED FOR RELEASE: 09/01/2001  
Abs Jour: Ref. Zhur. - Biol., No 23, 1958, 103956

Author : Zulinski, Tadeusz

Inst : -

Title : Two Cases of Coccidiosis of the Kidneys of  
Horses Produced by Eimeria sp. Preliminary  
Report.

Orig Pub: Med. weteryn., 1957, No 10, 579-580

Abstract: No abstract

Card 1/1



POLAND

PIETRZYK, Jan, ZIOLO, Tadeusz, and ZULINSKI, Tadeusz of the Polio Vaccine Production Division (Zaklad Produkcji Szczepionki "Polio") of the Plant for the Manufacture of Sera and Vaccines (Wytwornia Surowic i Szczepionek) (Director: Docent, Dr. Wacław MIRKOWSKI) and the Department of Pathological Anatomy (Wydział Anatomii Patologicznej) of the Veterinary Division (Wydział Weterynaryjny) of the WSR [Wyższa Szkoła Rolnicza, Higher School of Agriculture] (Director: Prof. Dr. Tadeusz ZULINSKI), both in Lublin

"Cholesterol Content of Adrenal Cortex in Monkeys Following the Administration of Phenactil."

Warsaw-Lublin, Medycyna Weterynaryjna, Vol 13, No 9, Sep 62, pp 528-531.

Abstract: Authors made a study of the effect of phenactil on the organism of acclimated Macacus Rhesus monkeys, particularly on the adrenals. Increased size and distribution of birefringent crystals in the adrenals, corresponding to a rise of cholesterol was determined 12-24 hours, with a re-

ZULINSKI, T.

19

1. "Limonas in Cattle," Adriana SZLICKI, 19-17.
2. "Vaccines and the Negot 'Anillo' in the Treatment and Prophylaxis of Transmissible Mastitis in Cattle," Stanislaw ZEMBIK of the Central Veterinary Institute of the Polish People's Republic (Warsaw) at the Higher School of Agricultural Sciences at Warsaw (Warsaw); Prof. Dr. Stanislaw ZEMBIK; pp 15-16.
3. "Herbicide Studies in Veterinary Practice," Nicodemus BILKUNOWICZ of the Polish People's Republic (Warsaw) at the Higher School of Agricultural Sciences at Warsaw (Warsaw); pp 15-16.
4. "Pragmatyka in the Form of Lectures in the Field of Dairy," Jerry PRZYBYLO of the Polish People's Republic (Warsaw) at the Higher School of Agricultural Sciences at Warsaw (Warsaw); Prof. Dr. Stanislaw ZEMBIK; pp 15-16.
5. "Observations on the Use of the Vaccine 'R' Against the Disease of Birds in Infected Flocks," Jerry PRZYBYLO of the Polish People's Republic (Warsaw) at the Higher School of Agricultural Sciences at Warsaw (Warsaw); Prof. Dr. Stanislaw ZEMBIK; pp 15-16.
6. "Bacteria S. gallinarum pullorum in Egg Mass," Adam CZARNIK of the Polish People's Republic (Warsaw) at the Higher School of Agricultural Sciences at Warsaw (Warsaw); Dr. Adam CZARNIK; pp 15-16.
7. "Testing the Use of Bouillon with TTD (2, 3, 5 Tetra-ethyl malonate) for the Determination of the Titre of the Milk in Samples of Milk," Wojciech OLINSKI of the Polish People's Republic (Warsaw) at the Higher School of Agricultural Sciences at Warsaw (Warsaw); Prof. Dr. Stanislaw ZEMBIK; pp 15-16.

ZULJIC, Stanko

Increase of the urban population of the People's Republic of Croatia.  
Geogr glas 22:31-42 '60 (publ '61).

ZULJIC, Stanko

Daily labor turnover in Zagreb. Geogr.glas. no.19:135-147 '57.  
(Published 1958). (HRAI 9:5)

(Croatia--Labor supply)

ZULJIC, S

Samobor; geographical conditions of situation and function. p. 101. (ZAGREB, No. 14/15, 1952/53.)

SO: Monthly List of East European Accessions, (EEA1, LC, Vol. 4, No. 6, June 1955, Uncl.

ZULJ-MILKOVIK, KARMELA

ZULJ-MILKOVIK, Karmela

The effect of streptomycin on the growth of fibroblasts in vitro.  
Radovi Med. fak. Vol.1:27-30 1954.

1. Iz Bioloskog Instituta Medicinskog fakulteta u Zagrebu,  
predstojnik prof. dr. Z.Lorkovic; primljeno 19.VIII.1953.

(STREPTOMYCIN, eff.

\*on fibroblast growth from chick embryo heart)

(TISSUE CULTURE

\*fibroblasts from chick embryo heart, eff. of streptomycin)

S/081/62/000/003/053/090  
B149/B101

AUTHORS: Ayvazov, B. V., Zul'karnayeva, S. F.

TITLE: Thermostability of sulfo-organic substances from petroleum of Bashkiria

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1962, 482, abstract 3M.130 (Sb. "Khimiya seraorgan. soyedineniy, soderzhashchikha ya v neft'yakh i nefteproduktakh". v. 4, M., Gostoptekhizdat, 1961, 121 - 128)

TEXT: The thermostability of organic sulfur compounds from petroleum and petroleum products of the new deposits in Bashkiria (Arlanskiy, Or'yebashevskiy, Cheraul'skiy, and others) was determined by the amount of hydrogen sulfide and mercaptan sulfur liberated during a certain period of time on heating the petroleum up to 100, 150, 200, 250, and 300°C for 8 - 10 hr. It was found that different amounts of hydrogen sulfide and mercaptans were evolved on heating the petroleum to different temperatures (the range of the quantities being very wide). The thermostability of organic sulfur compounds is not dependent on their total content of  
Card 1/2

Thermostability of ...

S/031/52/000/003/063/090  
B149/B101

sulfur, therefore a method of analyzing petroleum according to its thermostability should be worked out, to ensure the classification of petroleum according to this characteristic and to determine these classes for different industrial treatments. [Abstracter's note: Complete translation.

✓

Card 2/2



BYSTRITSKIY, I.; ZUL'KARNEYEV, R.

Contribution of  $3P$ ,  $3F$ -wave to meson production in pp-collisions  
at an energy of 660 Mev. Zhur. eksp. i teor. fiz. 45 no.4:1169-  
1173 0 '63. (MIRA 16:11)

1. Ob'yedinennyy institut yadernykh issledovaniy.

ZUL'KARNEYEV, R.Ya.; SILIN, I.N.

Phase shift analysis of pp-scattering at 660 Mev., taking relativistic effects into account. Zhur. eksp. i teor. fiz. 45 no.3:664-671 S '63. (MIRA 16:10)

1. Ob'yedinennyy institut yadernykh issledovaniy. (Protons--Scattering)

DOMOKOSH, G.; ZUL'KARNEYEV, R.Ya.; NIKANOROV, V.I.

[Theory of complex angular momenta and high-energy physics] Teoriia kompleksnykh uglovykh momentov i fizika vysokikh energii. Dubna, Ob"edinenyyi in-t iadernykh issl. 1963. 24 p. (MIRA 1717)

ZUL'KARNEYEV, R.Ya.; SILIN, I.N.

[Phase analysis of elastic (pp)-scattering at 660 Mev.]  
Fazovyi analiz uprugogo (pp)-rassoiiania pri 660 Mev.  
Dubna, Ob"edinennyi in-t iadernykh issledovani, 1962. 8 p.  
(MIRA 16:10)

(Mesons—Scattering)

ZUL'KARNEYEV, R.Ya.; SILIN, I.N. [Silins, I.]; MADEZHIDINA, N.I.  
[translator]; SARANTSEVA, V.R., tekhn. red.

Phase shift analysis of elastic (pp)- scattering at 660 MeV.  
Dubna, Ob"edinennii in-t iadernykh issledovani, 1962. 8 p.  
(No subject heading)

GOLOVIN, B.M.; ZUL'KARNEYEV, R.Ya.; NIKANOROV, V.I.; SATABOV, V.I.;  
SARANTSEVA, V.R., tekhn. red.

[On the reduction of NN-scattering amplitudes in  $T=0$  states]  
O vosstanovlenii amplitudy NN -rasselaniia v sostoianiiakh  
 $T=0$ . Dubna, Ob"edinenyi in-t iadernykh issledovani, 1962. 8 p.  
(MIRA 15:12)

(Nucleons--Scattering)

BYSTRITSKIY, I.; ZUL'KARNEYEV, R.; SARANTSEVA, V.R., tekhn. rad.

Contribution of  $^3P$  and  $^3F$  waves to meson production in  
pp-collisions at 660 MeV. Dubna, Ob"edinennyi in-t iadernykh  
issledovaniy, 1963. 5 p.

(No subject heading)

S/056/63/044/001/027/067  
B104/B144

AUTHORS: Golovin, B. M., Dzhelepov, V. P., Zul'karneyev, R. Ya.,  
Ts'ui Wa-ch'uang

TITLE: Angular dependence of the polarization correlation  $C_{nn}$   
and reconstruction of the amplitude moduli for pp  
scattering at 640 Mev. Estimation of the singlet phases. II

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,  
no. 1, 1963, 142-147

TEXT: This is the second report on studies to determine the nucleon-  
nucleon scattering matrix at 640 Mev. The experiments are carried out  
on the synchrocyclotron of the OIYaI following a certain program con-  
cerning np and pp scattering. In the first part the correlation  $C_{nn}$  was  
determined for normal polarizations in the c.m.s. for  $90^\circ$ . In the present  
paper  $C_{nn}$  is determined for  $54^\circ$  ( $108^\circ$ ) and  $72^\circ$  ( $126^\circ$ ). A 640 Mev proton  
beam was formed by a quadrupole lens and two collimators so as to hit the  
first target, a cylindrical container of liquid hydrogen, with a beam

Card 1/3



S/056/G3/044/001/027/067  
B104/B144

Angular dependence of the ...

density of  $(3-3.5) \cdot 10^8$  cm<sup>2</sup>/sec. Protons elastically scattered on the first target fell through a slit onto analyzer targets and were detected by counters. The amplitude of elastic pp scattering is represented in the form

$$M = \frac{1}{2} \{ (a+b) + (a-b)(\sigma_1, n) + e(\sigma_1 + \sigma_2) n + (c+d)(\sigma_1, m)(\sigma_2, m) + (c-d)(\sigma_1, l)(\sigma_2, l) \} \quad (1)$$

according to R.Oehme (Phys.Rev., 98, 147, 1955).  $M$  is measured experimentally in this representation, the other parameters are described by the following relations:

$$\begin{aligned} \sigma(\theta) &= \frac{1}{2} (|a|^2 + |b|^2 + |c|^2 + |d|^2 + |e|^2), & \rho(\theta) &= \frac{\text{Re} a a^*}{\sigma(\theta)}, \\ C_{nn} &= \frac{1}{2\sigma(\theta)} (|a|^2 - |b|^2 - |c|^2 + |d|^2 + |e|^2), \\ D(\theta) &= \frac{1}{2\sigma(\theta)} (|a|^2 + |b|^2 - |c|^2 - |d|^2 + |e|^2), \\ K(\theta) &= \frac{1}{2\sigma(\theta)} (|a|^2 - |b|^2 + |c|^2 - |d|^2 + |e|^2). \end{aligned}$$

These relations and the experimental data are used to find the results  
Card 2/3

S/056/63/044/001/027/067  
B104/B144.

Angular dependence of the ...

given in Table 3.  $|M_{ss}(54^\circ)| = (0.40 \pm 0.07) \cdot 10^{-13}$  cm is found for the scattering amplitude. This value gives a singlet scattering cross section of  $\sigma_s(54^\circ) = (0.4 \pm 0.14) \cdot 10^{-27}$  cm<sup>2</sup>. The pp scattering cross section in the triplet state is  $\sigma_{tr}(54^\circ) = (3.3 \pm 0.2) \cdot 10^{-27}$  cm<sup>2</sup>. The contribution of singlet scattering to the total scattering cross section increases considerably with a decrease of the scattering angle from 90° to 54°. There are 1 figure and 4 tables.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy. (Joint Institute of Nuclear Research)

SUBMITTED: August 23, 1962

$\theta$ , n. m., град.	$\frac{ a ^2 +  d ^2}{2\sigma(\theta)}$	$\frac{ b ^2}{2\sigma(\theta)}$	$\frac{ c ^2}{2\sigma(\theta)}$	$\frac{ d ^2}{2\sigma(\theta)}$	$\frac{ a-d ^2}{2\sigma(\theta)}$
54	0,78 ± 0,09	0,21 ± 0,08	0,00 ± 0,08	0,00 ± 0,08	0,42 ± 0,09
72	0,66 ± 0,07	0,19 ± 0,07	-0,02 ± 0,07	0,17 ± 0,07	0,53 ± 0,07
90	0,95 ± 0,08	0,02 ± 0,05	0,02 ± 0,05	0,02 ± 0,08	0,95 ± 0,08
108	0,66 ± 0,07	-0,02 ± 0,09	0,19 ± 0,09	0,17 ± 0,07	0,79 ± 0,07
126	0,78 ± 0,09	0,00 ± 0,07	0,21 ± 0,07	0,00 ± 0,09	1,14 ± 0,09

Card 3/3

GOLOVIN, B.M.; DZHELEPOV, V.P.; ZUL'KARNEYEV, R.Ya.; TSUY VA-CHUAN

Angular dependence of the polarization correlation  $C_{pp}$   
and the reconstruction of the amplitude moduli for pp-scattering  
at 640 Mev. Estimation of the singlet phases. Part 2. Zhur. eksp.  
i teor. fiz. 44 no.1:142-147 Ja '63. (MIRA 16:5)

1. Ob'yedinennyy institut yadernykh issledovaniy.  
(Protons—Scattering) (Nuclear spin)

L 17637-63

EWT(m)/BDS

AFFTC/ASD

8/056/063/044/005/044/055

53

AUTHOR:

Zul'karneyev, R. Ya. and Silin, I. N.

52

TITLE:

Phase shift analysis of elastic 660 Mev pp-scattering 19

PERIODICAL:

Zhurnal eksperimental'noy i tekhicheskoy fiziki, v. 44, no. 3,  
1963, 1106-1110

TEXT: The Mandelstam model (Ref. 1: Proc. Roy. Soc., 224, 491, 1958) seems to describe quite well the inelastic pp interaction at 660 Mev. According to it, the phase shift analysis should assume the pion production in only the  $^1D_2$  and  $^3P_{0,1,2}$  states and neglect the imaginary part of the scattering phase shifts for the  $^3F_{2,3,4}$  and  $^1S_0$  states. The author carried out the analysis with the aim of obtaining the picture of the pp interaction in various spin states away from the pion production threshold and get information useful for the design of further 660 Mev pp-scattering experiments on the synchro-cyclotron in Dubna. The analysis follows in many respects the papers by Yu. M. Kazarinov and I. N. Silin (Ref. 2: ZhETF, 43, 692, 1962; Ref. 3: Preprint OIYaI, R-970, 1962) and is based on the differential cross section and polarization data,  $D(\theta)$  and  $R(\theta)$  parameters, the

Card 1/2

L 17637-63

S/056/63/044/003/044/053

## Phase shift analysis...

values of  $C_{nn}(\theta)$  and  $C_{kp}(\pi/2)$ , and the values of the total pp cross section as supplied by various teams of Soviet researchers. A single phase shift set was obtained in the interval  $\lambda^2 \leq \lambda^2 \leq 2\lambda^2$  and four sets in the interval  $2\lambda^2 \leq \lambda^2 \leq 3\lambda^2$ . Angular dependences of the quantities  $\delta(\theta)$ ,  $P(\theta)$ ,  $C_{np}(\theta)$ ,  $C_{kp}(\theta)$ ,  $D(\theta)$ ,  $R(\theta)$ , and  $A(\theta)$  were calculated on the basis of the most probable phase shift set. There are 3 figures and 1 table.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institut for Nuclear Research)

SUBMITTED: October 30, 1962

Card 2/2

GOLOVIN, B.M.; DZHELEPOV, V.P.; ZUL'KARNEYEV, R.Ya.

Correlation between the normal polarization components in 650 mev.  
proton-proton scattering. Part 1. Zhur. eksp. i teor. fiz. 41 no. 1:  
83-88 J1 '61. (MIRA 14:7)

1. Ob'yedinennyy institut yadernykh issledovaniy.  
(Synchrotron) (Protons--Scattering)

GOLOVIN, B.M.; ZUL'KARNEYEV, R.Ya.; NIKANOROV, V.I.; SATAROV, V.I.

[Spin-orbital states of particles in elastic nucleon-deuteron scattering] Spinovye sostoianiia chastits pri uprugom nuklon-deitronnom rasseianii. Dubna, Ob"edinennyi in-t iadernykh issledovani, 1961. 15 p. (MIRA 15:2)  
(Nuclear spin) (Scattering (Physics))

RF7012713

SOURCE CODE: UR/0367/67/005/001/0146/0149

AUTHOR: Golovin, B. M.; Zul'karneev, R. Ya.; Zulkarneev, R. Ya.; Kiselev, V. S.;  
Medved', S. V.--Medved, S. V.; Nikanorov, V. I. Pisarev, A. P.; Semashko, G. L.

ORG: Joint Institute for Nuclear Research (Ob'yedinenyy Institut yadernykh  
issledovaniy)

TITLE: Spin correlation during elastic scattering of polarized 605 MeV  
protons on protons

SOURCE: Yadernaya fizika, v. 5, no. 1, 1967, 146-149

TOPIC TAGS: elastic scattering, nuclear spin, proton beam, spark chamber,  
scintillation counter

SUB CODE: 20

ABSTRACT: The spin correlation coefficients in elastic pp-scattering were  
measured at 90° c.m.s., using a polarized 605 MeV proton beam. Spark chambers  
controlled by scintillation counters were used in the measurements. The following  
values of the coefficients were determined:  $C_{nn} = 0.56 \pm 0.18$   $C_{K P} = 0.27 \pm$   
 $0.18$ ,  $C_{q K n} = 0.92 \pm 0.38$ . The authors thank S. M. Bilen'kiy, V. P.  
Dzhelepov, L. I. Lapidus, R. M. Ryndin, G. D. Stoletov, and A. A. Tyapkin for  
discussion of the questions which arose during the work and also R. I. Zaplatina,  
L. A. Lebedeva, M. Ya. Uglirzheva, V. V. Ukleykina, and N. P. Yushkevich  
Card 1/2

0932 1346



ACC NR: AP7012/13

for examining the photoplates. Orig. art. has: 1 figure and 4 formulas.  
[Based on authors' Eng. Abst.] [JPRS: 40,393]

$\frac{2}{2}$

ZOLKIEWICZ, J

3  
Preparation of iron from the fused  $KCl-LiCl-FeCl_2$  system. *Soul. Zolkiwicz. Compt. rend. 247, 1804-6 (1888); C.A. 13, 477.* Pure Fe (99.997%) was prepd. by the electrolysis of a fused mixt. of  $KCl$ ,  $LiCl$ ,  $FeCl_2 \cdot 4H_2O$ , and a small %  $Fe^{++}$ . This was done by operating over the temp. range 180-225° in a glass tube which was fitted with a steel cathode at the base and a graphite rod anode in the center of the tube. The Fe deposited at the cathode as small (<2 mm.) cubic crystals, and the yield was proportional to the potential applied at the electrodes.

VI  
1/1

Cosmo K. LaTorgia

Category : RUMANIA/Solid State Physics - Phase transformation of solid bodies

E-5

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 1176

Author : Guliaev, A.P., Zulkin, V.M.

Title : On the Kinetics of the Isothermal Formation of Austenite.

Orig Pub : An. Rom.-Sov. Metalurgie si constr. masini, 1956, 10-No 1, 14-18

Abstract : See Ref. Zhur. Fiz., 1956, 28649

Card : 1/1

BOHME, F., diplomovany ekonom; KRUPPE, E., dipl. inz.; RICHTER, J.,  
dipl. inz.; STARTZEL, W., dipl. inz.; ZULLICH, H., dipl. inz.

Forming the working process with respect to man. Pod org 17  
no.6:281 Je '63.

ACC NR: AP6023171

SOURCE CODE: RU/0003/65/016/002/0065/0069

AUTHOR: Zultner, I.

30  
B

ORG: none

TITLE: Simultaneous extraction of zinc and lead by the furnace process at the chemical-metallurgical works of Copșa Mica

SOURCE: Revista de chimie, v. 16, no. 2, 1965, 65-69

TOPIC TAGS: zinc, lead, metal extraction, metallurgic furnace

ABSTRACT: A summary of the principal techniques, equipment and advantages of the method of simultaneous extraction of zinc and lead in furnaces, by methods similar to those used for the heavy non-ferrous metals. An installation of this type is under construction at Copșa Mica, similar to several others recently erected or under construction in England, Australia, Italy, etc. Orig. art. has: 4 figures and 5 tables. [JPRS]

SUB CODE: 11, 13 / SUBM DATE: none / OTH REF: 005

Card 1/1 85

0915

1382

ZULTNER, I.

Simultaneous extraction of zinc and lead by the furnace process at the Copsa Mica Chemical and Metallurgical Works. Rev chimie Min petr. 16 no.2:65-69 P '65.

ZULTNER, I., ing.

Technique of sintering under pressure. Rev chimie Min petr 12  
no.11:645-648 N '61.

ZITUD, F.

Remarks on the financing, determination, and control of research work.

p. 262

Vol. 5, no. 6, 1955

ZA SOCIALISTICKOU VEDU A TECHNIKU

Praha, Czechoslovakia

Source: Monthly List of East European Accessions, (FEAL), IC, Vol. 5, no. 2  
February 1956, Uncl.



Polarographic behavior of reductone and coumarindiol.  
R. Brůžka and P. Zuman (Charles Univ., Prague). *Collection Czechoslovak Commun.* 15, 700-710 (1959) (in English).—The anodic oxidation of reductone (C<sub>11</sub>H<sub>11</sub>O<sub>2</sub>, (OH)CHO) (I) and coumarindiol (II) were studied polarographically in solns. of pH 1.8-12. Each compd. gave a wave for which  $\Delta E_{1/2}/\Delta pH$  was -58 mv. at pH values below 5.5, -20 mv. between pH 5.5 and about 8.5, and -28 mv. at higher pH values. The  $E_{1/2}$  of I varied from +0.190 v. (vs. normal calomel electrode) at pH 1.8 to +0.238 v. at pH 10.0, while that of II was everywhere nearly 30 mv. more pos. These values were about 100 mv. more pos. than the potentiometrically detd. normal oxidation-reduction potential for the couple I  $\rightarrow$  mesoxalaldehyde; and a similar discrepancy was found with the ascorbic acid-dehydroascorbic acid couple. This was interpreted as indicating a slow hydration of the diketo compd. formed at the electrode surface, so that equil. was not attained at the electrode surface. Both compds. gave a second anodic wave at potentials more pos. than the main 2-electron wave. In solns. of pH above 6, I gave a 2-electron cathodic wave for which  $E_{1/2}$   $\approx$  about -2.1 v. The acid dissociation const. of mesoxalaldehyde must be close to  $10^{-6}$ .

Louis Meites

4

A list of half-wave potentials. P. Zuman (Central Polarographic Inst., Prague). *Collection Czechoslov. Chem. Commun.* 15, 1107-1204 (1950) (in English).--A compilation is given of half-wave potential values taken from the literature through 1949, with a few references to later papers. Graphs of  $R_p$  vs. pH for org. compounds are given, but no references are given for the data on inorg. ions. 124 references.  
Louis Meltes

CA

Polarographic maxima of second order. (P) Zuman, J.  
Chem. Listy 44, 102-4 (1959). - A review with 18 references.  
M.I.

CA

Reactions of carbonyl compounds with primary amines.  
P. Zuzman (Central Polarographic Inst., Prague). *Sbornik  
Metod. Polarog. Spolu Prac. 1st. Congr. 1951, Pt. 1,  
Proc. 704-11 (in Russian), 711-17 (in English); cf. C.A. 46,  
6184d.*—Pyruvic and phenylglyoxylic acids, acetaldehyde,  
benzaldehyde, acetone, cyclohexanone, benzil, bisacetil,  
oxidation products of ascorbic acid, and coumarinylidene show a  
new, more pos. wave when polarographed in concd. buffer  
sols. of  $NH_4$  and primary amines at pH approaching  $pH_a$ .  
The new wave is caused by the reaction product between the  
carbonyl compd. and the amine. This must contain a C=N  
group which is more readily reducible than the correspond-  
ing C=O group. Hence this reaction can be used for the  
estn. of carbonyl compds. that are otherwise reducible at  
such neg. potentials that their polarographic detn. is im-  
possible under usual conditions. Otto H. Müller