

ACTA CHIMICA  
Academiae Scientiarum Hungaricae  
Vol. 13, Nos 1-2, 1957

APPLICATION OF METHYLORANGE AS A MEASURING SOLUTION  
IN MICROANALYSIS: HELIANTHOMETRY

Titrimetric microdetermination of iron(II) and hydrogen peroxide by helianthometry

G. ALMÁSSY and I. DEZSG

(Institute of Medical Chemistry, Medical University, Debrecen)

Received March 17, 1956

Summary

A new titrimetric method was evolved, applying methylorange as a measuring solution. By this method, small amounts of reducing ions can indirectly be titrated. The optimum conditions of the titration were established and the role of the reagents used at the titration, further of light in promoting the reaction were examined. The new method has been denominated by the authors as helianthometry.

DEZSO, ISTVAN

HUNGARY/Cosmoschemistry. Geochemistry. Hydrochemistry.

D.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 35801

Author : Almassy Gyula, Dezaó Istvan, Kovacs Edit, Straub Janos

Inst : -

Title : The Uranium Content in the Surface of Hungary. I. The Establishment of a Method of Investigating Uranium; Successes of Investigations in the Eastern Part of Hungary.

Orig Pub : Hidrol. közlöny, 1957, 37, No 2, 162-165

Abstract : The uranium content in specimens of water was determined by the fluorometer method, through extraction with dibutylphosphate. According to the data, 150 specimens established that the quantity of uranium ( $\gamma/\lambda$ ) in the individual specimens reached 15 to 20, seldom 40 to 60; in the majority of regions, the uranium content fluctuated from 1.0 to 10.

Card 1/1

~~DEZSO, Istvan; FULOP, Tibor~~

Copper determination in blood serum with lead diethyldithiocarbamate.  
Kiserletes orvostud. 10 no.1:101-103 Feb 58.

1. Debreceni Orvostudományi Egyetem Orvosi Vegytani Intézete es I. sz.  
Belklinika.

(COPPER, in blood  
determ., colorimetry with lead salt of diethyldithiocarbamate  
(Hun))

FULOP, T.; DEZSO, I.

Effect of chlorpromazine on iron resorption and on serum iron level. Acta med. hung. 16 no.1:85-92 '60.

1. Innere Klinik (Direktor: prof. B. Fornet) und Chemisches Institut  
(Direktor: G. Both) der Medizinischen Universität, Debrecen.  
(CHLORPROMAZINE pharmacol)  
(IRON blood)

DEZSO, Istvan; BOT, Gyorgy

Effect of age and blood loss on the basic serum iron level and on its  
increase after loading in rabbits. (So-called "iron resorption")  
Kiserletes orvostud. 13 no.3:264-268 Je '61.

1. Debreceni Orvostudományi Egyetem Orvosi Vegytani Intézete.

(IRON blood)

DEZSO, I.; BOT, G.

The effect of age and blood loss on the serum iron level and its elevation after an iron load (the so-called "iron absorption") in the rabbit. Acta med. hung. 17 no.2:145-149 '61.

1. Institute of Medical Chemistry, University Medical School, Debrecen.  
(AGING physiol ) (IRON blood)  
(HEMORRHAGE exper.)

FULOP, Tiber, dr.; DEZSO, Istvan, dr.

Effect of chlorpromazine on iron resorption and concentration in the blood. Orv. hetil. 102 no.17:785-787 23 Ap '61.

1. Debreceni Orvostudományi Egyetem, I Belklinika és Orvosi Vegytani Intézet.

(IRON metab) (CHLORPROMAZINE pharmacol)

DEZSO, Istvan; BOT, Gyorgy

The effect of bleeding on changes in "iron absorption" and iron-binding capacity in rabbits. Kiserl. orvostud. 14 no.4:414-419 3 '62.

1. Orvosi Vegytani Intezet, Debrecen.  
(IRON METABOLISM) (HEMORRHAGE)



DEZSO, I.; BOT, G.

Changes in "iron absorption" and iron-binding capacity in responses to bleeding in the rabbit. Acta physiol. 21 no.2:149-155 '62.

1. Institute of Medical Chemistry, Medical University, Debrecen.  
(HEMORRHAGE experimental) (IRON blood)

NAGY, Zoltan, dr.; PORCSALMY, Ilona, dr.; ANDRASSY, Katalin, dr.;  
DEZSO, Istvan; KOVACS, Edit; POLYIK, Edit

Chemical analysis of the Hajduszoboszlo hot springs. Hidrologiai  
kozlony 40 no.4:300-303 Ag '60.

1. Debreceni Orvostudományi Egyetem Orvosi Vegytani Intézete.

DEZSO, L.

Dezso, L.

"Phenomena of the surface of the sun in January and February 1953." p. 46.  
(Idojaras. Vol. 57, no. 1, Jan./Feb. 1953, Budapest.)

SO: Monthly List of East European Accessions, Vol. 2, No. 9, Library of Congress, September  
1953, Uncl.

2342\* Observation of the Total Eclipse of the Sun on June  
30, 1954. Az 1954 június 30-1 napfényképezés meg-  
figyelése. (Hungarian.) Imre Csada, Lorint Dezső, and Tibor  
Herzeg. *Magyar Fizikai Lapok*, vol. 4, 1954, p. 251-253.  
Report on the Hungarian expedition to Pulkovo observa-  
tory in the northern Caucasus. Clear formations hampered the  
observation. Photographic work is discussed. Photograph.

*MAX  
51955*

DEZSO, L.

Evaluation of results  
in testing colorfastness. p. 162.  
MAGYAR TEXTILTECHNIKA. (Textilipari  
Muszaki es Tudomanyos Egyesulet)  
Budapest.  
No. 5, May 1956.

SOURCES: EEAL - LC Oct. 1956 Vol. 5 No. 10

DEZSO, L.

DEZHE, L. [Dezso, L.]

Brief note on sunspots. Izv.Krym.astrofiz.obser. 16:208-209  
'56. (MIRA 13:4)

1. Vengerskaya Akademiya nauk, Astronomicheskaya observatoriya.  
(Sunspots)

L 44086-66

ACC NR: AT6020494 SOURCE CODE: CZ/2514/65/000/051/0041/0045 18

AUTHOR: Dezso, L.; Gerlei, O. 14  
Et/1

ORG: Heliophysical Observatory of the Hungarian Academy of Sciences, Debrecen

TITLE: Variation of the average penumbra-umbra ratio of sunspots during the solar cycle

SOURCE: Ceskoslovenska adademie ved. Astronomicky ustav. Publikace, no. 51, 1965. 3rd Consultation on Solar Physics and Hydromagnetics, Tatranska Lomnica, 13-16 October 1964, 41-45

TOPIC TAGS: sunspot, penumbra, umbra, solar cycle

ABSTRACT: The article explains how the mean penumbra-umbra ratio of sunspot groups varies with time during the solar cycle, being somewhat larger during a sunspot maximum than during the next two or so years. The method of calculation and data-selection criteria and use are analyzed. Only the 13,957 spot-group observations are used, which were made in a 70-year period from 1886 to 1955 and 12

Card 1/2

L 44086-66

ACC NR: AT6020494

4

included 6 entire solar cycles. It is found that the variation of the mean penumbra-umbra ratio of sunspots during the solar cycle generally tends to follow the spot activity. It is shown that penumbral-umbral variable area quotients must be recognized as an important parameter of the sunspot phenomenon. It is noted that without exception, the lower of the two penumbra-umbra means is the one that refers to the absolute maximum phase. The highest stage of spot development coincides with a very low penumbra-umbra value. The authors are indebted for many of the calculations to B. Kalman and Z. Szabo, students of Lomonosov University in Moscow and Kossuth University in Debrecen, respectively. Orig. art. has: 2 figures. [GC]

SUB CODE: 03/ SUBM DATE: none/ OTH REF: 010/

Card

2/2 gd



L 46813-66

ACC NR: AT6020497	SOURCE CODE: CZ/2514/65/000/051/0049/0057	23 19
AUTHOR: <u>Dezso, L.</u>		B+1
ORG: <u>Heliophysical Observatory of the Hungarian Academy of Sciences, Debrecen</u>		
TITLE: A possible interpretation of the east-west asymmetrical distributions of sunspots over the solar disk		
SOURCE: Ceskoslovenska akademie ved. Astronomicky ustav. Publikace, no. 51, 1965. 3rd Consultation on Solar Physics and Hydromagnetics, Tatranska Lomnica, 13-16 October 1964, 49-57		
TOPIC TAGS: solar disk, sunspot, facula, plage, umbra, solar radio emission		
ABSTRACT: The author explains in detail the symbols and the notations used in his article, discusses previous works on east-west asymmetry in the distribution of sunspots, and presents additional recent data, which enable him to outline a possible explanation of this east-west asymmetry. Observations covering seven 4-year periods show the eastern excess of sunspot groups in the case of an average two-day period of increase or decrease in the umbral area, the distribution and some averages		
Card	1/2	

48813-56

ACC NR: AT6020497

of a real difference in large bipolar sunspot groups, and the average values of the daily change in the umbral area. It appears that observed asymmetrical east-west distributions of sunspots can be explained, at least qualitatively, by the existence of nontransparent faculae. This asymmetry also causes other east-west asymmetries found in data on solar phenomena. If this interpretation is correct, indirect information on insufficiently observable photospheric faculae may be obtained by studying various distributions of sunspots over the solar disk or by investigating some apparent variations in spot areas. The author wishes to acknowledge the fine compilation and classification work done by Agnes Kovacs and Z. Bodo, students of Kossuth University in Debrecen and to thank Mr. O. Gerlei for some relevant discussions. In the discussion following the article, the author affirms that faculae and plages are closely related to magnetic fields. Their asymmetry implies asymmetry in the configuration of the line of force. They in turn influence the directivity of radio emissions. The physical interpretation of the east-west asymmetry is based on observational data. Orig. art. has: 2 tables. [GC]

SUB CODE: 03/ SUBM DATE: none/ OTH REF: 004/-

Card

2/2 LC

DEZSO, S.; ZSUZSA, J.

Causes of mortality of the newborn. Orv. hetil. 94 no. 1:10-13  
4 Jan 1953. (CML 24:1)

1. Doctor. 2. First Institute of Pathological Anatomy and Experimental Cancer Research (Director --- Prof. Dr. Jozsef Balo), Budapest Medical University.

DEZSO, Schuler, dr.; KISS, Sandor, dr.

Chromosome studies on leukemia of childhood. Orv. hetil. 104 no.5:  
208-210 3 F '63.

1. Budapesti Orvostudományi Egyetem, II. Gyermekklinika.  
(CHROMOSOMES) (LEUKEMIA)

USSR/Human and Animal Physiology - Physiology of Work and Sport. T-12

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32292

Author : Dezuayl' Andri

Inst :

Title : Working Conditions as a Basis Pathogenic Factor.

Orig Pub : Usloviya zhizni i zdorov'ye, 1956, No 1, 20-22.

Abstract : A report of observation of 3 groups of workers all at the same enterprise, who worked in one, two and three shifts and changed shifts during the week. Among the workers, in only the first or in the first and second shifts (from 5 to 13 and from 13 to 21 o'clock), disturbances of digestion were found in 7.65% and 7.31% of the persons, and ulceration in 1.37 and 1.22% respectively. Among workers spending one week of the three on the night shift (from 21 to 5 hours), disturbances of digestion were found in 21.7% and ulceration in 3.28% of the persons, i.e. almost 3 times greater.

Card 1/1

DEGA, Wiktor; DEZYNA, Marian; MYSLIBORSKI, Tadeusz

Prevention and early treatment of congenital dislocations of the hip joint in newborn infants according to data of the clinic of the Academy of Medicine in Poznan. Postepy chir. 2:29-38 1955.

1. Z kliniki ortopedycznej AM w Poznaniu, Kier. prof. dr. W. Dega.  
(HIP, dislocations,  
congen., prev. & surg., hosp. statist. (Pol))

GRYBOS, Jerzy; DEZYNA, Maria

Isonicotinic acid hydrazide treatment of osteo-articular tuberculosis. Chir. narz. ruchu 21 no.1:1-12 1956.

1. Z Kliniki Ortopedycznej A. M. w Poznaniu, Kierownik: prof. dr. W. Dega, Poznan, ul. Dzierzynskiego 135.

(TUBERCULOSIS, OSTEO-ARTICULAR, ther. isoniazid. (Pol))

(NICOTINIC ACID ISOMERS, ther. use, isoniazid in osteoarticular tuberc. (Pol))

DEZYNA, Maria (Poznan, ul. Dzierzynskiego 135)

Torticollis ex amyotonia congenita. Chir. narz. ruchu 22 no.1:49-51  
1957.

1. 2 Kliniki Ortopedycznej A. M. w Poznaniu. Kierownik: prof. dr W. Dega.  
(AMYOTONIA CONGENITA, compl.  
torticollis in child. (Pol))  
(TORTICOLLIS, in inf. & child  
caused by myotia congenita (Pol))



DEZYNA, Maria, RATOMSKI, Roman

Critical evaluation of early manifestations of dysplasia of the hip joint. Chir.narz.ruchu 24 no.3:195-204 '59.

1. Z Kliniki Ortopedycznej AM w Poznaniu. Kierownik: prof. dr W. Dega.

(HIP abnorm.)

DEZYNA, Maria; GLOWINSKA, Danuta

Results of electrophoretic studies of blood serum proteins in children with idiopathic scoliosis. Chir. narząd. ruchu ortop. Pol. 30 no.1:31-36 '65.

1. Z Kliniki Ortopedycznej Akademii Medycznej w Poznaniu (Kierownik: prof. dr. med. W. Daga).

ACCESSION NR: AR401446

S/0137/63/000/012/D035/D035

SOURCE: RZh. Metallurgiya, Abs. 12D214

AUTHOR: Ostrenko, V. Ya.; Dferov, V. M.; Geyko, I. K.; Pechennikova, I. S.;  
Lagutina, R. V.; Kirvalidze, N. S.

TITLE: Hot rolling of pipes from EP38, EP39, and EI993 steels

CITED SOURCE: Sb. Proiz-vo trub. M., Metallurgizdat, vy\*p. 9, 1963, 5-12 .

TOPIC TAGS: Steel pipe hot rolling, pipe steel composition, steel pipe rolling

TRANSLATION: Chemical compositions of the indicated steels to be used in production and the mechanical properties of the tube blanks are given. The mechanical properties of these steels are examined in detail. The mechanical properties of the pipes obtained are indicated, and recommendations designed to improve the quality of the pipes are given for the procedure of their hot rolling.

DATE ACQ: 09Jan64

SUB CODE: ML

ENCL: 00

Card 1/1

L 31165-66 EW(11)  
ACC NR: AP6006817

SOURCE CODE: UR/0181/66/008/002/0378/0382

AUTHOR: Tsendin, K. D.; Dfros, A. L.

41  
8

ORG: Physicotechnical Institut im. A. F. Ioffe AN SSSR, Leningrad (Fiziko-tekhni-cheskiy institut AN SSSR)

TITLE: Theory of thermoelectromotive force in a quantizing magnetic field in the Kane model

21.11.85

21.11.85

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1965, 378-382

TOPIC TAGS: thermoelectromotive force, magnetic field, Schroedinger equation

ABSTRACT: The authors use the Ansel'm-Askerov-Obraztsov method (A. I. Ansel'm, B. M. Askerov, FTT, 2, 2310, 1960; Yu. N. Obraztsov, FTT, 6, 414, 1964; 7, 573, 1965) for calculating the thermoelectromotive force in a quantizing magnetic field assuming Bloch wave functions as the solution of the Schrödinger equation in the magnetic field within the framework of the Kane model. It is found that the thermoelectromotive force for electrons with a standard spectrum is equal to the entropy per particle  $s$  divided by the electron charge  $(-e)$ . This formula ( $\alpha = -s/e$ ) is

2

Card 1/2

L. 31165-66

ACC NR: AP6006817

true for any approximation with respect to  $E/E_g$  and  $E_g/\Delta$ , where  $E$  is the average energy of an electron,  $E_g$  is the width of the forbidden band and  $\Delta$  is the energy of spin-orbital splitting of the valence band. Orig. art. has: 22 formulas.

SUB CODE: 20/      SUBM DATE: 01Jul65/      ORIG REF: 006/      OTH REF: 002

Card 2/2 *LC*

MIKELADZE, G.Sh.; NADIRADZE, Ye.M.; BEZARASHVILI, Sh.M.; DGEBUADZE, G.A.;  
TSKHVEDIANI, R.N.; CHIKASHUA, D.S.; METREVELI, A.I.

Making ferrosilicon in a closed electric furnace. Stal' 21 no.5:  
419-422 My '61. (MIRA 14:5)

1. Institut metallurgii AN GSSR i Zestafonskiy zavod ferrosplavov.  
(Ferrosilicon—Electrometallurgy)

MIKELADZE, G.Sh.; NADIRADZE, Ye.M.; PKHAKADZE, Sh.S.; GOGORISHVILI, B.P.;  
DGEBAUDZE, G.A.; SOLOSHENKO, P.S.; SEMENOV, V.Ye.; BARASHKIN, I.I.;  
SHIRYAYEV, Yu.S.; POSPELOV, Yu.P.; KATSEVICH, L.S.; ROZENBERG, V.L.;  
Prinimali uchastiye: LORDKIPANIDZE, I.S.; TSKHVEDIANI, R.N.;  
DZODZUASHVILI, A.G.; DUNIAVA, A.G.; PEKARSKIY, L.F.; GRITSFNYUK, Yu.V.;  
ZHELTOV, D.D.; LUZANOV, I.I.; GLADKOVSKIY, V.P.; PODMOGIL'NIY, V.P.;  
VOROPAYEV, I.P.; BRIKOVA, O.V.; VRUBLEVSKIY, Yu.P.; KLYUYEV, V.I.;  
BAYCHER, M.Yu.; LOGINOV, G.A.; SHILIN, V.K.; POPOV, A.I.; ZASLONKO, S.I.

Industrial experiments in the smelting of 45 o/o ferrosilicon in  
a heavy-duty closed electric furnace. Stal' 25 no.5:426-429 My '65.  
(MIRA 18:6)

1. Gruzinskiy institut metallurgii (for Lordkipanidze, Tskhvediani,  
Dzodzuashvili, Guniava). 2. Nauchno-issledovatel'skiy i proyektnyy  
institut metallurgicheskoy promyshlennosti (for Brikova, Vrublevskiy,  
Klyuyev). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut elektro-  
termicheskogo oborudovaniya (for Baycher, Loginov, Shilin, Popov,  
Zaslanko).

DGEBUADZE, K.E.

COUNTRY : USSR  
CATEGORY : Cultivated Plants - Forage Crops 4  
ABST. JOUR. : VZhBiol., No.14, 1958, No.63471  
AUTHOR : Dgebuadze, K.E.  
INST. : Scientific Research Institute of Animal Husbandry, Georgian\*  
TITLE : Preliminary Data on Variety Trials of Sudan Grass in Some Regions of Eastern Georgia.  
ORIG. PUB. : Sb. sr. n.-i. in-ta zhivotnovodstva. KazUSSR, 1957, 2, 60-72  
ABSTRACT : Three-year variety trials of Sudan grass under the conditions of non-irrigated regions, permitted to bring out the most productive, fast-maturing and drought resistant varieties of Sudan grass. Varieties Krasnodarskaya 1967, Chernomorka, Odesskaya 25 and Dnepropetrovskaya 876 are recommended for the non-irrigated zone of Eastern Georgia. For the mountain and elevated regions, the following fast maturing varieties are recommended: Odesskaya 25, Kostnaya

Card: 1/2

\* SSR

05



DGEBUADZE, M. I., Cand of Med Sci -- (diss) "On the question of the mechanism of the action of mineral waters of Dzau on the secretory function of the stomach." Tbilisi, 1957, 14 pp (Tbilisi State Medical Institute)  
200 copies (KL, 34-57, 90)

USHVERIDZE, G.A.; LOGBUADZE, M.I.

Method of determining thermal comfort during sunbaths.  
Vop. kur. fizioter. i lech. fiz. kul't. 28 no.3:237-242 My-  
Je '63. (MIRA 17:5)

1. Iz instituta kurortologii i fizioterapii Gurii (dir.-  
prof. V.G. Gogibedashvili).

USHVERIDZE, G.A.; DGEBUADZE, M.N.; DZHIKIYA, L.P.

Comparative data on the basal metabolism and vacat oxygen  
in lun<sup>o</sup> diseases at the sea health resort Gagra and moderate  
altitude health resort TSemi. Sbor. trud. Gos. nauch-issl.  
inst. kur. i fizioter. 26:79-82 '63. (MIRA 17:5)

DGEBUADZE, O. N.

Cand Agr Sci, Diss -- "Intervarieties of hybrid silo corn for the mountain regions of Georgia". Tbilisi, Pub House of the Georgian Agr Inst, 1961. 30 pp, 21 cm (Min of Agr, Georgian SSR. Georgian Order of Labor Red Banner Agr Inst), 180 copies, No charge (KL, No 9, 1961, p 186, No 24385). 61-55860

DEKAPRELEVICH, L.L.; DGEBUADZE, O.N.

Intervarietal corn hybrids for ensilage in mountainous areas of  
Georgia. Agrobiologiya no.4:505-509 J1-Ag '62. (MIRA 15:9)

1. Gruzinskiy sel'skokhozyaystvennyy institut, Tbilisi.  
(GEORGIA--HYBRID CORN)

L 46108-66 EWP(a)/EWT(m) WH

ACC NR: AP6023928

SOURCE CODE: UR/0363/66/002/007/1328/1330

AUTHOR: Dgebuadze, T. P.; Mazurin, O. V. 35  
B

ORG: Institute of Silicate Chemistry, Academy of Sciences, SSSR (Institut khimii silikatov Akademii nauk SSSR); Leningrad Technological Institute im. Lensovet (Leningradskiy tekhnologicheskii institut)

TITLE: Determination of the character of the chemical heterogeneity of borosilicate glasses by studying their dielectric loss

SOURCE: AN SSSR. Izv. Neorg materialy, v. 2, no. 7, 1966, 1328-1330

TOPIC TAGS: borosilicate glass, dielectric loss, glass property

ABSTRACT: The dielectric loss of glasses of the  $\text{Na}_2\text{O}-\text{B}_2\text{O}_3-\text{SiO}_2$  system containing 2, 4, 6, 8, and 10 mole %  $\text{Na}_2\text{O}$  and from 22.5 to 24.5 mole %  $\text{B}_2\text{O}_3$  in the charge (in the glass with 4%  $\text{Na}_2\text{O}$  the  $\text{B}_2\text{O}_3$  content was 26%) was measured with an MLYe-1 instrument. The temperature dependence of the dielectric loss at a frequency of  $10^3$  cps was measured in glasses heat-treated for 10 hr at  $600^\circ\text{C}$ , and the temperature-frequency dependence of the dielectric loss of glass with 2%  $\text{Na}_2\text{O}$  was determined at  $10^4$ ,  $10^3$ , and  $4 \times 10^2$  cps. The data showed that the relaxation maxima on the dielectric loss curves appear only in glass containing 2%  $\text{Na}_2\text{O}$ , and only after the heat treatment. The maxima disappear again after heating to  $760^\circ\text{C}$ , when the glass structure becomes more homogeneous. It is concluded that the method of measuring dielectric loss can be used to determine

Card 1/2

UDC: 54-161.6

L 46108-66

ACC NR: AP6023928

the nature of the chemical inhomogeneity in glasses. Orig. art. has: 3 figures.

SUB CODE: 11/ SUBM DATE: 12Jul65/ ORIG REF: 005/ OTH REF: 004

Card 2/2 JS

DGEBUADZE, V.

New pharmaceutical supplies. Apt. delo 3 no.1:30-31 Ja-F '54.

(MIRA 7:1)

1. Predsedatel' pravleniya Abkhazskogo otdeleniya nauchnogo farmatsevticheskogo obshchestva. (Abkhazia--Cork) (Cork--Abkhazia)



DGEBUADZE, V.A.; SIGUA, A.N.

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At the Abkhazia Branch of the Scientific Pharmaceutical Society of  
the Georgian S.S.R. Apt.delo. 3 no.2:60 Mr-Apr '54. (MLRA 7:4)  
(Abkhazia--Pharmacy) (Pharmacy--Abkhazia)

DGEBUADZE, V. A.

Flea for maximum utilization of local medicinal plants. Apt.delo 4  
no.1:38-39 Ja-F '55 (MLRA 8:4)

1. Upravlyayushchiy Abkhazskim otdeleniyem GAPU Gruzinskoy SSR.  
(BOTANY, MEDICAL)

DGEBUADZE, V.A.

Out-of-town session in Sukhumi. Apt.delo 4 no.3:63 My-Je '55.  
(PHARMACOLOGY) (MLRA 8:8)

DGEBUADZE, V.A.; SIGUA, A.N.; CHANISHVILI, Ye.D.; ARSIBA, S.Ya., kand.  
med.nauk, red.; SICHINAVA, G.N., kand.med.nauk, red.; PISHCHIK,  
M.S., tekhnred.

[Handbook of new medicines and their use in therapy] Spravochnik  
novykh lekarstvennykh preparatov i ikh vrachebnoe primeneniye;  
vypiski. Sukhumi.. Pt. 1. 1956. 109 p. (MIRA 12:4)  
(PHARMACOLOGY)

DGEBUADZE, V.A.

Magnolia. Sbor. trud. Med.nauch. ob-vo Abkh. 2:280 '59.  
(MIRA 14:10)  
(MAGNOLIA)

DGEFUADZE, V.A.

Buasilini. Sbor. trud. Med. nauch. ob-vo Abkh. 2:281 '59.

(MIRA 14:10)

(DRUGS)

DGEBUADZE, V.A. (Sukhumi)

In the Pharmaceutical Society of the Abkhazian A.S.S.R. Apt.  
delo 8 no.3:81-82 My-Je '59. (MIRA 12:8)  
. (ABKHAZIA--PHARMACEUTICAL SOCIETIES)

DHAPARIDZE, A.G.

Experience in forecasting the atmospheric pressure in Transcaucasia using empirical functions of influence. Soob. AN Gruz. SSR 31 no.1:37-44 J1 '63. (MIRA 17:7)

1. Zakavkazskiy nauchno-issledovatel'skiy Gidrometeorologicheskiy institut, Tbilisi. Predstavleno chlenom-korrespondentom akademii M.M. Mirianashvili.



CZECHOSLOVAKIA /U.S.A

1  
KRULICH, L., DHARIWAL, A.P.S., MCCANN, S.M.; Physiological Institute, Faculty of General Medicine, Charles University, (Fysiologicky Ustav Fak. Vseob. Lek. UK), Prague; Department of Physiology, School of Medicine, University of Philadelphia, Philadelphia.

"Hypothalamic Regulation of the Secretion of the Growth Hormone."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 102

Abstract: Insulin hypoglycemia reduces the content of the growth hormone in the hypophysis of rats within an hour. This is due to the sudden increase in its secretion from the hypophysis. This sudden decrease may be blocked by bilateral electrical lesion in the area of nucl. praemillaris of the hypothalamus. A chronic decrease in content of the hormone will result from this lesion. Other areas of the hypothalamus do not behave in a similar way. An injection of an extract from sheep's eminentia medialis causes a quick and substantial decrease in the growth hormone in the hypophysis. No references. Submitted at "16 Days of Physiology" at Kosice, 29 Sep, 65.

1/1

- 145 -

DHARYLGASOV, S.; SUVOROV, V.S.; BEZDENEZHNYKH, I.S.; KOVALEVA, Ye.P.

Reviews, critique and bibliography. Zhur. mikrobiol.; epid. i  
immun. 41 no.6:142-145 Ju '64. (MIRA 18:1)

CZECHOSLOVAKIA / Virology. Human and Animal Viruses. E  
FMD Virus.

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5322.

Author : Verge, J.; Dhennin, Louis.; Dhennin, Loone.;  
Paraf, A.; Larenaudle, B.

Inst : Not given.

Title : Studies of Intradermal Vaccination in Foot-  
and-Mouth Disease.

Orig Pub: Veterinarstvi, 1958, 8, No 4, 127-129.

Abstract: No abstract.

Card 1/1

CZECHOSLOVAKIA / Virology. Human and Animal Viruses. E  
FMD Virus.

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5322.

Author : Verge, J.; Dhennin, Louis.; Dhennin, Leone.;  
Paraf, A.; ~~Laroneudle, B.~~

Inst : Not given.

Title : Studies of Intradermal Vaccination in Foot-  
and-Mouth Disease.

Orig Pub: Veterinarstvi, 1958, 8, No 4, 127-129.

Abstract: No abstract.

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DHIMA Koco

ALBANIA / Cultivated Plants. Poants for Technical Use. II  
Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 34728

Author : Dhina Koco

Inst : Not given

Title : Irrigation of Cotton Plants Along the Furrows.

Orig Pub . Rujgesine socialiste, 1957, 11, No 6, 4-5

Abstract : None given

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DHIMA, K.

"The role of underground waters in agriculture and in salting the land"

Per Bujqesine Socialiste. Tirane Albania. Vol. 1<sup>3</sup>, no. 1, Jan 1959

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

DHIMA, K.

"We should observe the correct number of plants per hectare."

PER BUJQESNE SOCIALISTE., Tirane, Albania., Vol. 13, No. 4, Apr. 1959

Monthly list of EAST EUROPEAN ACCESSIONS (EEAI), IC, Vol. 8, No. 7, July 1959, Unclas

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Constructing pneumatic malt machinery in the beer industry, p. 30,  
TEKNIKA, (Ministria Industri-Miniera dhe Ndertim-Komunikacion)  
Tirane, Vol. 3, No. 1, Jan./Feb. 1956

SOURCE: East European Accessions List, (EEAL) Library of Congress,  
Vol. 5, No. 12, December 1956



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Vol. 3, No. 2, Mar./Apr. 1956

SOURCE: East European Accessions List, (EEAL) Library of Congress,  
Vol. 5, No. 12, December 1956

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Treatment of sciatica with adrenal cortex hormones  
administered into the subarachnoid space. Shendet pop 6  
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(ADRENAL CORTEX HORMONES) (SCIATICA) (SUBARACHNOID SPACE)

ADHAMI, Josif E.; DHIMITRI, Violeta

Takayasu's disease and its treatment with hormonal and anti-coagulant preparations. Bul. univ. shtet. Tirane[Mjek] 4:63-72 '62.

(AORTIC DISEASES) (PREDNISONE)  
(ANTICOAGULANTS)

DHYTILOVA, Marie; KULHANEK, Vaclav; HORN, Vitezslav

Keloids as a form of auto-aggression in the scar. Rozhl.chir. 39  
no.6:393-399 Je '60.

1. Vyzkumny ustav traumatologicky v Brne, reditel prof. MUDr.  
Vladimir Novak Patologicko-anatomicky ustav lekarske fakulty  
university v Brne, prednosta prof. MUDr. J.Svejda.  
(FIBROMA etiol.)  
(CICATRIX neopl)

DIABAC, M.

Contributions to the solution of the tectonic problems concerning the Steinberg fault in the northern part of the Vienna basin.

P. 5. (Prague. Ustav pro naftovy vyskutm. Prace. No. 23/25 1956) Praha, Czechoslovakia)

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

DIABAC, M.

Notes on the gravitation theory of the migration of petroleum. p. 425

Prague. Ustredni ustav geologicky. VESTNIK. Praha, Czechoslovakia, Vol. 33, no. 6,  
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Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959  
Uncl.

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Miners Day, 1956. p. 381

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Technicka sekce) Vol. 5, No. 4, 1956

Praha, Czechoslovakia

SOURCE: East European List (EEAL) Library of  
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DIABAL, K.

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Feb. 1953. Czechoslovakia.

SO: Monthly List of East European Accessions, Vol.2, No.11, Nov. 1953.  
Uncl.



DIABLOVA P. E.

5105 DIABLOVA P. E. Two variants of sensitization of muscles to potassium ions Dokladi Akademii Nauk SSSR, Moscow 1949, 69/1 (109-111) Illus. 4

The sensitizing actions of guanidine and veratrine on potassium-induced contracture of the sartorius and rectus abdominis muscles of the frog were investigated. Experiments with denervated muscles (3-85 days after denervation) indicated that the action of guanidine is associated with normal functioning of the myoneural synapses. This action disappears after degeneration of the nerves and also after curarization. The sensitizing action of veratrine with respect to potassium contracture, on the other hand, is not affected by either curare or denervation. It appears that veratrine, in contradistinction to guanidine, acts chiefly on the muscle tissue. Ten Cate - Amsterdam

SO: Excerpta Medica, Section 11 Volume 111 No. 9

DIABLOVA, P.E.

Effect of denervation of the skeletal muscle on its sensitization to potassium ions, produced by aminopyridine and veratrine. Fiziol. zh. SSSR 37 no.3:354-357 May-June 51. (GIML 21:1)

1. Department of Pharmacology, Leningrad Pediatric Medical Institute.

USSR/Human and Animal Physiology. Neuro-Muscular Physiology. T

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36804.

Author : Diablova, P. E.

Inst :

Title : The Influence of Glucose Upon Excitation of Cholinergic Structures of Skeletal Muscles.

Orig Pub: Fiziol zh. SSSR, 1957, 43, No 3, 226-270.

Abstract: The isolated abdominal rectus and sartorius muscles of a frog were placed in a bath with an aerated Ringer solution and submitted for a period of 1-2 hours to the action of proserine (neostigmine) (I) 1:2000-400/000, (the rectus only) or quinidine (II) 1:8-20.000. Contractions were registered for a period of 15-30 min. and then glucose (III) (1:500-

Card : 1/3

USSR/Human and Animal Physiology. Neuro-Muscular Physiology.

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36004.

1000) was added. Under the effects of III in only 2 out of 8 experiments was noted a decrease of the contractile reaction (CR) of the muscle, under the effect of I or II. A more apparent inhibiting effect of III was noted in experiments in which muscles were first placed in Ringer solution containing III and had then their CR investigated under the effect of I and II. In 10 experiments with I CR was fully inhibited, in 2 markedly decreased. In experiments with II inhibition of CR was noted in 5 out of 15, decrease in 9. After III was washed out the muscle reactivity returned. III inhibits the excitation processes brought forth by I and II in the neuromuscular synapses. This effect of III is explained by the arrest of synthesis and by liberation of acetylcholine. Low

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EXCERPTA MEDICA Ser 2 Vol 12/2 Physiology Feb 59

890. SYNERGISM BETWEEN ATROPINE AND ANTI-CHOLINESTERASE DRUGS  
(Russian text) - Diablova P. E. Dept. of Pharmacol., Paed. Med. Inst., Lenin-  
grad - FIZIOL. Zh. 1958, 44/5 (491-495) Tables 3  
High doses of atropine raise the tolerance of mice towards lethal doses of physo-  
stigmine and proserine, while the tolerance is decreased by lower doses.  
Simonson - Minneapolis, Minn.

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DIACHENKO, P. Use of radioactive isotopes in technology. p.12.

Vol. 7, no. 10, 1955, TRANSPORTNO DELO, SOFIYA, BULGARIA.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 10,  
Oct. 1956.

*aliacik, Ivan*

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Name: Grodenlevskis  
Date of Birth:  
Nationality:  
Source: Latvians, Chemical Weekly, No 7, Jul 60, p 510

Grodenlevskis  
Occupation: Engineer  
Institution: Research Institute for Chemical Fibers in Svit  
Date: Author of "Determination of the Degree of Crystallization  
of Polypropylene, Produced by Stereo-specific  
Polymerization with the Use of Infrared Absorption  
Spectroscopy," Source.

Grodenlevskis  
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Date: Author of "Determination of the Degree of Crystallization  
of Polypropylene, Produced by Stereo-specific  
Polymerization with the Use of Infrared Absorption  
Spectroscopy," Source.

*Li*

DIACIK, Ivan, inz.; JAMBRICH, Martin, inz.

Effect of the use of infrared absorption spectroscopy on the structure of polycapraamide fibers. Chem zvesti 15 no.11/12:902-908 N-D '61.

1. Vyskumny ustav chemickych vlakien vo Svite. Authors' address: Svit, okres Poprad, Vyskumny ustav chemickvch vlakien.



DIACIK, Ivan; JAMBRICH, Martin

Polymorphism of isotactic polypropylene. Chem prum 14  
no. 3: 136-141 Mr '64.

1. Research Institute of Chemical Fibers, Svit.

PORA, Eugen, A.; WITTENBERGER, Carol; DIACIUC, Ioan V.; TCMA, Virgil

Modifications of the carp tissue and total metabolism following a locomotor effort. Studii biol Cluj 13 no.2: 355-363 '62.

1. Academia R.P.R.- Filiala Vluj, Centrul de cercetari biologice. 2. Membru corespondent al Academiei R.P.R. (for Pora).

PORA, Eugen A., acad.; DIACIUC, Ioan, V.; WITTENBERGER, Carol

Influence of the modification of medium ionic relation on the intestinal reactivity of *Gobius melanostomus*. *Studii biol Cluj* 14 no.2:293-298 '63.

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1. Center of Biologic Research, Rumanian Academy, Cluj Branch.

FORA, E.A., acad.; DIACIUC, I.V.

Influence of the rapie modifications on the oxygen and acetylation of the p-aminobenzoic acid consumption in vitro. Studii cerc biol s. zocl 17 no.1:39-46 '65.

1. Section of Comparative Animal Physiology, Rumanian Academy, Cluj Branch. Submitted July 14, 1964.

IORGULESCU, Florin, conf. ing. (Bucuresti); DIACON, Alexandru, conf.  
(Bucuresti)

Considerations on the use of the Rumanian water power resources during the 1961-1980 period. Energetica Rum 10 no. 11:457-463 N '62.

1. Director tehnic al Institutului de studii si proiectarii energetice (for Iorgulescu).
2. Inginer specialist la Institutul de studii si proiectari energetice (for Diacon).

DIACONEASA, B.; SURAN V.

The ultra-anoptical microscope as an improvement of the Wilska method. p. 877.

COMUNICARILE. Bucuresti, Rumania, Vol. 7, no. 10, October 1957.

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

Uncl.

DIACONEASA, B.; SORAN, V.

Ultra-anoptral microscope, a new optical device for biological researches. p. 159.

Academia Republicii Populare Romine. Filiala Cluj. STUDII SE CERCETARI DE BIOLOGIE. Cluj, Rumania. Vol. 9, no. 1, 1958.

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

Uncl.

POP, Emil, acad.; DIACONEASA, Baluta

Palynological analysis of a glacial peat profile in the  
Zalau region. Studii cerc biol s. bot 16 no. 4:259-262  
'64.

1. Chair of Plant Physiology, "Babes-Bolyai" University,  
Cluj.



POP, E., acad.; BOSCAIU, N.; RATIU, Flavia; DIACONEASA, B.; TODORAN, Ariana

Effects of atmospheric precipitations on spore and pollen concentrations in aeroplankton. Studii cerc biol s. bot 16 no.5:401-406 '64.

1. Botanical Garden, "Babes-Bolyai" University, Cluj, and the Section of Plant Physiology, Rumanian Academy, Cluj Branch.

DIACONEASA, B.; NICORICI, E.

Palynological studies in the deposits of the Lower Sarmatian at Fizes (Salaj Basin). Studii cerc geol geof geogr 9 no.2:295-307 '64.

1. Faculty of Biology and Geography, "Babes-Bolyai" University, Cluj. Submitted October 1, 1964.

POP, Em., acad.; BOSCAIU, N.; RATIU, Flavia; DIACONEASA, B.

Correlation between recent pollen spectra and the vegetation  
in the Retezat National Park. Studii cerc biol s. bot 17 no.1:  
3-13 '64.

1. "Babes-Bolyai" University, Cluj. Submitted June 20, 1964.

5(1)

RUM/3-59-8-18/32

AUTHOR: Diaconescu, A., Engineer

TITLE: The Contribution of Combinatul Chimic Nr 1 (Chemical Combine Nr 1) to the Development of the Rumanian Economy

PERIODICAL: Revista de chimie, 1959, Nr8, p 477 (Rumania)

ABSTRACT: The author first describes the poor situation of "two plants placed on the same territory and belonging to two different companies" at the time of the "nationalization". After nationalization, the author writes, the development of Combinatul Chimic Nr 1 followed quickly, both in volume and variety of the production. New installations were built for the production of phenol, resins, bakelits, ammonium salts (ammonium carbonate, ammonium sulfate, ammonium nitrate, hexamethylenetetramine, sodium nitrite and nitrate); intermediate products for the dyestuffs industry and pharmaceutical industry (nitrobenzene, dinitrotoluene, dinitrochlorbenzene, paranitrochlorbenzene); nitrogen-containing fertilizers, plastics (aminoplasts, cellu-

Card 1/2

RUM/3-59-8-18/32

The Contribution of Combinatul Chimic Nr 1 (Chemical Combine Nr 1)  
to the Development of the Rumanian Economy

loid); 95 sorts of plastic consumer goods, 80 sorts of industrial pressed plastic articles; nitrocellulose for varnishes. The total output of 1958 was 10.23 times that achieved in 1948. Labor productivity increased 5.25 times compared with the same year. The cost of production decreased by 46.26% during the same period. The development of ammonia production is exemplified. The indices of production for 1949, 1953, 1956 and 1958 are compared for ammonia, phenol and intermediate products. ✓

Card 2/2

DIACONESCU, A.

Monitor for fast neutrons with separation of the matter.  
Studii cerc fiz 14 no.6:889-894 '63.

1. Institutul de fizica atomica, Bucuresti.

DIACONESCU, A.

Angular correlation between the prompt neutron and fission fragment in  $U^{235}$ . Studii cerc fiz 15 no. 2:253-258 '64.

1. Institute of Atomic Physics, Bucharest.

DIACONESCU, Aurelian

On the angular correlation between ready neutrons and fragments  
of fission. Studii cerc fiz 16 no. 6:636-656 '64.

1. Institute of Nuclear Physics, P.O.Box 35, Bucharest.



RUMANIA/Chemical Technology - Chemical Products and Their Applications - Food Industry. H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37832

Author : Ionescu, M., Anghelovici, M., Diaconescu, C.  
Inst : -  
Title : Content of Carotenoids and Their Derivatives in Corn Flour as a Function of Degree of Milling.

Orig Pub : Probl. Agric., 1957, 9, No 6, 36-43

Abstract : Carotenoid (C) content in 3 types of corn flour was investigated, in relation to the nature of milling in different cuts obtained by fractionization of the grist. The content of C and zeaxantine differs from that of the whole flour. With the decrease of yield %, C and zeaxantine content in the flour grows. It has been found that in flour samples with yields of: 0-30; 0-45 and 0-70, the content of C and derivatives is always higher than corresponding content in the flour: with

Card 1/2

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RUMANIA/Chemical Technology - Chemical Products and Their  
Applications - Food Industry.

H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37832

yields of 30-100, 45-100, 70-100. Gorn flour with the smaller outcrop is richest in C and also contains higher % of fats, mineral substances and digestible proteins. Determination of C in the flour was made by two methods. It was established that a simplified version of Body method gives results higher by 0.74-16.3%, than those obtained by Rachenskii-Buryan Method.

Card 2/2

DIACONESCU. C.

Some considerations related to the planning of the production volume in well-drilling enterprises. p.286

PETROL SI GAZE. (Asociatia Stiintificia a Inginerilor si Tehnicienilor din Romania si Ministerul Industrii Petrolului si Chimiei) Bucuresti, Romania  
Vol.10 no.7, July 1959

Monthly list of East European Accessions (EEAI) LC Vol.9, no.2 Feb. 1960

Uncl.

DIACONESCU, C., ing.

Possibility of directly attaining the given basicity by the  
reduction of bichromate and avoiding subsequent corrections.  
Industria usoara 3 no.2:53-57 F '56.

DIACONESCU, C. Gr., ing.

Contributions to the study of correlation between the cost per drilled meter and the depth of wells. Petrol si gaze 12 nr.5: 199-313 My '61.

IUGA, Gheorghe, ing.; DIACONESCU, Constantin, ing.; SIRBU, Rodica, ing.

Hydrophily of leathers tanned with polyaromatic substances.  
Industria usoara 10 no.8:324-336 Ag '63.

NICOLAE, Mihail, dr.; BOLOGA, L., dr.; DIACONESCU, C., dr.;  
CALUTU, I., chim.; KOCH, Maria, folcer

Observations on former epidemic hepatitis patients. Med. intern.  
15 no.10:1225-1232 '63.

1. Lucrare efectuata in Spitalul unificat Hunedoara.  
(INDUSTRIAL MEDIGINE)  
(HEPATITIS, INFECTIOUS)

DIACONESCU, Cornelia; NICULESCU-ZINCA, D.; MATEI, I.

Uptake in vitro of radioactive triiodothyronine in resins,  
as a thyroid function test. Stud. cercet. endocr. 15 no.2:  
147-154 '64.



D. H. Conness, Jr.

✓ The use of volcanic tuffs of Mexican origin for water demineralization. M. S. Gout, O. N. Chita, M. I. Ionescu, and H. Diaconescu (Univ. Inst. Romania). *Acad. rep. Populare Rom. Ser. 7 (Sci. Ser. Eng. Ser. 6) 1952*, 3, 132-42 (1952).

The diataseic tuff extd. from Neuhel and used in the water softening expts. has the following compn.: SiO<sub>2</sub> 85.20, TiO<sub>2</sub> 1.50, Al<sub>2</sub>O<sub>3</sub> 17.60, Fe<sub>2</sub>O<sub>3</sub> 2.72, FeO 4.45, CaO 3.68, MgO 3.39, Mn trace, Na<sub>2</sub>O 4.37, K<sub>2</sub>O 0.24, H<sub>2</sub>O 4.54, and CO<sub>2</sub> 0.01%. This material was first activated by mixing at room temp. or at 70° for one hr. with a soln. of 10% NaCl. When used in softening water, it was found that a vol. of activated tuff can demineralize 110 vol. of water, reducing the hardness from 10° to 0° CaCO<sub>3</sub>. The used tuff can be regenerated by treatment with a soln. of 10% NaCl.

R. Mavrodineanu

DIACONESCU, E.

RUM .

Linden-tree fruits as a source of oil. M. Dima, Gh. V. Cotruș, and E. Diaconescu. *Acad. Rep. Populare Române, Studii Cercetări Chim.* 7, 83-103 (1954) (French summary). — Linden-tree fruits contain 11-14% of a fatty oil suitable for food or industrial use. The oil contained: solid fatty acids 8.84, oleic acid 88.4,  $\alpha$ -linoleic acid 30.33,  $\beta$ -linoleic acid 18.88, glycerol (as  $C_3H_8$ ) 4.33, nonsaponifiable materials 0.69%. Gerard Aufegger.

DIACONESCU, E.I.

*Chem* Preparation of zeolites from domestic [Romanian] raw materials. M. Dima, E. Diaconescu, A. Carpop, and R. Serban (Univ. Chi, Romania). *Stud. rep. populara Rom. studii cercetari chim.* 2, 139-55 (1954).—Sols. of Al sulfate or Na aluminate were treated with Na silicate under varying conditions of agitation during the reaction, concn. of the solns., the amts. of Na silicate, pH of the solns., and temp.; also the effects of additional Na salts, and of excess alkali during drying were studied. A recipe was developed for the prepn. of a good zeolite corresponding to  $3.3\text{SiO}_2 \cdot \text{Al}_2\text{O}_3 \cdot 0.08\text{Na}_2\text{O} \cdot 1.5\text{H}_2\text{O}$ .  
Werner Jacobsen

DIACONESCU, EL.

6-2-may  
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Distr: 4E2c(j) 7

Preparation of sulfocarbons from local coal. M. Dima, El. Diaconescu, A. Carov, and E. Florea. Acad. rep. populare Romine, *Fizica Tasi, Studi cercetari stiint. chim.* 7, 31-62(1958).--The prepn. of ion exchangers from Romanian peat, lignite, brown coal, and coal was studied, with 95% H<sub>2</sub>SO<sub>4</sub> serving as sulfonating agent. The sulfonation of older coal requires a temp. of 175-200°. A good ion exchanger was prepd. at 100° for peat and at 150° for lignite; sulfonation conducted at higher temps. gave sulfocarbons with a lesser ion-exchange capacity. The treatment time with H<sub>2</sub>SO<sub>4</sub> also varied with the age of the coal, e.g. 4-5 hrs. at 175-200° for lignite. If a sulfonation time longer than the optimum was used, sulfocarbons with lower exchange capacity resulted, owing to partial hydrolysis of the sulfonic groups. H<sub>2</sub>SO<sub>4</sub> in a proportion of 600% to coal is necessary for good sulfonation. In the case of older coals a greater quantity causes the reduction of the exchange ability, whereas an excess of H<sub>2</sub>SO<sub>4</sub> in the sulfonation of younger

coals does not affect the exchange capacity. Basic and acidic sulfocarbons were obtained. Their exchange capacity was established either by dynamic methods (passing alk. earth solns. through a column filled with sulfocarbons) or by static methods (isometrically and through agitation with alk. earth solns.). The exchange capacity of the prepd. sulfocarbons expressed in meq. of CaO/g. of dry sulfocarbon varied from 0.7 to 1.7 meq. for the useful capacity and from 0.9 to 2.2 meq. for the total exchange capacity. The regeneration of Na sulfocarbons with 10% NaCl soln. raised the exchange capacity for certain sulfocarbons by 8-23%. In other cases a diminution of exchange capacity took place after such a treatment. The acidic sulfocarbons are regenerated with a 3% HCl soln. The exchange capacity rose with the diminution of the grain size. The resistance of sulfocarbons vs. alk. solns. was also detd.

J. Herling