

ZUJOVIC, Jovanka, Dj., asist.dr; JOVANOVIC, Borivoje, dr; DJUKIC, Dragica,
dr.

Myositis calcificans progressiva. Srpski arh.celok.lek. 87 no.11:
1444-1451 Nov. 54.

1. Pedijatrijska klinika Medicinskog fakulteta u Beogradu. Upravnik:
prof. dr Matija Ambrosic; Radioloski institut Medicinskog fakul
teta u Beogradu. Upravnik: prof. dr Stojan Dedic.
(MYOSITIS OSSIFICANS,
progressiva)

ZUJOVIC, Jovanka; PODVINEC, Srećko; ĐORĐEVIĆ, Slobodan; PETROVSKI, Stevan

Role of otogenic infection on the occurrence of dystrophy and diarrhea in infants and small children. Srpski arh. celok. lek. 88 no. 3:271-277 Mr '60.

1. Pedijatrijska klinika Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Matija Ambrazic. Otorinolaringološka klinika Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Srećko Podvinec. 2. Članovi Uredivačkog odbora, "Srpski arhiv za celokupno lekarstvo" (for Zujovic and Dordevic).

(OTITIS in inf & child) (DIARRHEA in inf & child)
(INFANT NUTRITION DISORDERS etiol)

ZUJOVIC, Jovanka; MILOSEVIC, Vukosava; PETROVIC, Ljubisa

Dysvitaminosis A. Srpski arh. celok. lek. 89 no.3:285-294 Mr '61.

1. Deteja klinika Medicinskog fakulteta Univerziteta u Beogradu.
Upravnik: prof. dr Borivoje Tasovac. 2. Clan Uredivackog odbora,
"Srpski arhiv za celokupno lekarstvo" (for Zujovic).

(VITAMIN A DEFICIENCY in inf & child)

ZUJDOVICH, Dj.

MILOSEVIC, B.; ZUJDOVICH, Dj; STOLJEVICH, B; PEROVIC, M.

The application of hysterosalpingography in diagnosis in gynecology. Srpski arh.celok.lek.83 no.1:61-75 Jan '55.

1. Ginekolosko-akuserska klinika Medicinskog fakulteta u Beogradu.
Upravnik: prof.dr Sinisa Tasovac. Radiološki institut Medicinskog fakulteta u Beogradu. Upravnik: prof. dr. Stojan Dedic.

(GYNECOLOGICAL DISEASES, diag.

hysterosalpingography (Ser))

(GENITALIA FEMALE, radiography

hysterosalpinography in diag. of gyn.dis.(Ser))

ZUJUS, A.

From Archimedes to sputnik.

P. 8. (TECHNIKOS ZODIS) (Chicago, issued by the American Lithuanian Association of Engineers and Architects.) No. 6, Dec. 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

BC

AND THE...
PROCESSES AND PROPERTIES INDEX

1. ...
D. ...

ASR-51A METALLURGICAL LITERATURE CLASSIFICATION

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96	97	98	99	100

ZUK, Aleksander; BERNARDCZYK, Karol

Bracing of paraplegic patients after spinal cord injuries. Chir.
narz. ruchu 22 no.4:391-396 1957.

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

(SPINAL CORD, wds. & inj.

causing paraplegia, ther., bracing (Pol))

(PARAPLEGIA, etiol. & Pathogen.

spinal cord inj., ther., bracing (Pol))

ZUK, Aleksander; WALCZYNSKI, Stanislaw

Shoes for correction of short leg. Chir. narz. ruchu 22 no.1:
91-100 1957.

1. Z Kliniki Ortopedycznej A. M. w Poznania. Kierownik: prof. dr
W Dega. Adres autorow: Poznan, ul. Dzierzynskiego 135, Klinika
Ortopedyczna.

(LXG, abnorm.

length inequality, corrective shoes (Pol))

ZUK, ALEKSANDER

ZUK, Aleksander; WAICZYNSKI, Stanislaw; KARSCH, Aleksander

~~Orthopedic braces in the treatment of scoliosis.~~ Chir. narz. ruchn
22 no.2:225-227 1957.

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

(SCOLIOSIS, ther.

management with orthopedic braces (Pol))

ZVK, A.

MIEDZYBŁOCKI, Wiesław, Inż., mgr.; ZVK, Aleksander, lek.

Evaluation of ankle hinges in spiral braces. Chir. narz.
ruchu 21 no.3:324-328 1956.

1. Z Klin. ortoped. A.M. w Poznaniu. Kier. prof. dr. W. Dega.
(ORTHOPEDICS, apparatus and instruments,
braces, evaluation of ankle hinges (Pol))

ZUK, Aleksander

Apparatus for radiological measurement of the angle of curvature of the spine using Cobb's method. Chir. narz. ruchu 21 no.5:507-509 1956.

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

(SCOLIOSIS, diagnosis,
appar. for radiol. measurement of spinal curvature (Pol))

SWIDERSKI, Gerwazy; ZUK, Aleksander (Poznan, ul. Dzierzynskiego 135)

Arthrodesis of paralysed foot in small children following poliomyelitis. Chir.narz.ruchu 20 no.2:111-122 1955

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

(POLIOMYELITIS, surgery,
arthrodesis of paralysed foot in child.)

(FOOT, paralysis,
arthrodesis in polio. in child.)

MACIEJEWSKA, Maria; ZUK, Aleksander

Modified Francke's needle. Polski tygod. lek. 9 no.23:723
7 June 54.

1. Z III Kliniki Chorob Wewnętrznych A.M. w Poznaniu, kierownik:
prof. dr med. Franciszek Labudzinski i z Laboratorium Centralnego
Szpitala Miejskiego im. Jozefa Sirusia w Poznaniu; kierownik: dr
med. Maria Maciejewska, dyrektor szpitala dr med. Jan Wiktorowicz.

(DRAINAGE,
modified Francke's needle)

STRZYZEWSKI, Hieronim; BERNIARDCZYK, Karol; ZUK, Aleksander

Cineplasty of the biceps brachii in a patient with forearm amputation.
Chir. narz. ruchu ortop. polska 26 no.6:765-769 '61.

1. Z Kliniki Ortopedycznej AM w Poznaniu Kierownik: prof. dr W. Deja.
(AMPUTATION STUMP surg)

ZUK, Bolesław

Evaluation of the breeding value of animals by the Robertson method.
Postepy nauk roln 9 no.5:43-52 8-0 '62.

1. Katedra Ogólnej Hodowli Zwierząt, Wyższa Szkoła Rolnicza, Wrocław.

NOWICKI, Boleslaw; ZUK, Boleslaw

Search for genetic characteristics for accurate matching pairs
in cattle breeding. Postepy nauk roln 11 no.6:49-56 N-D 64.

1. Department of General Animal Breeding of the School of
Agriculture, Wroclaw.

POLAND

ZCK, Boleslaw, Chair of General Animal Breeding (Katedra
Ogólnej Hodowli Zwierząt), WSR [Wyższa Szkoła Rolnicza,
Higher School of Agriculture] in Wrocław

"Evaluation of Breeding Value of Boar on the Basis of Various
Numbers of Controlled Litters."

Warsaw-Lublin, Medycyna Weterynaryjna, Vol 18, No 11, Nov
62, pp 633-639.

Abstract: Author establishes five points of determination
and works out a formula for evaluation of correlations. The
results are tabulated, and verification procedure recommended.
Of the four references, one is English and three are Polish.

1/1

TUMILOWICZ, Stanislaw.; ZUK, Edward.

Mixed abscess from the lymph nodes of the hilus; surgical treatment following lobectomy. Polski tygod. lek. 12 no. 28:1086-1087 8 July 57.

1. Z Zakładu Fryzjochirurgii IDSKL; kierownik: prof. W. Rzepcki, Sanatorium Sokolowskiego PZSP w Zakopanem i z Oddziału Chirurgii Sanatorium im Pawłowa w Rabce; dyr. M. Milewski. Adres: Otwock, ul. Dziersynskiego 56-13.

(PNEUMONECTOMY, complications,

mixed abscess from lymph nodes of hilus after lobectomy, surg. (Pol))

(LYMPH NODES, abscess,

pulm. hilus, after lobectomy, surg. (Pol))

(LUNGS, abscess,

hilus lymph nodes, after lobectomy, surg. (Pol))

RUDNIK, Jan, ZUK, Edward

Bronchography in children with a mixture of lipiodol with talcum.
Pediat. polska 30 no.6:555-557 June 55

1. Z Dziecięcego Ośrodka Sanatoryjno-Prewentoryjnego w Rabce.
Dyrektor: dr med. M. Milewski. Rabka, Dziecięcy Ośrodek Sanatoryjno-
Prewentoryjny.

- (BRONCHI, radiography,
contrast media, lipiodol with talc, in child)
- (CONTRAST MEDIA,
lipiodol with talc in bronchography in child)
- (TALC,
with lipiodol as contrast medium in bronchography
in child)

RZEPECKI, Tadeusz; ZIOLA, Henryk; ZUK, Edward

Violent clinical course in a case of tuberculous perivertebral abscess and tracheo-bronchial lymph node tuberculosis.
Pol. przegl. chir. 36 no.6:819-823 Ja '64

1. 7 Śląskiego Dziecięcego Ośrodka Sanatoryjno-Prewencyjnego w Rabce (Ordynator: dr. T. Rzepecki).

RUDNIK, Jan; RZEPECKI, Tadeusz; ZUK, Edward

Causes of the frequency of indications for pulmonary resection in children. Gruslica 26 no.7:593-597 July 58.

1. Z Dziecięcego Ośrodka Sanatoryjno-Prewentoryjnego w Rabce Dyrektor:
dr J. Rudnik. Adres: Dziecięcy Ośrodek Sanatoryjno-Prewentoryjny w Rabce.
(TUBERCULOSIS, PULMONARY, in inf. & child
indication for resection, causes (Pol))

ZUK, Edward

Excision of the upper and lower pulmonary lobe. Retention of the middle lobe. Postepy hig. med. dosw. no.2:50 '60.

1. Z Oddzialu Torakochirurgicznego Dzieciacego Ośrodka Sanatoryjno-Prewentoryjnego w Rabce Dyrektor Ośrodka. lek. med. J. Rudnik; Ordynator: dr T. Rzepecki.

(PNEUMONECTOMY)

OBRAPAI.SKA, Ewa; PECHEREK, Kazimierz; RUDNIK, Jan; RZEPICKI, Tadeusz;
ZALEWSKA, Hanna; ZUK, Edward.

Views on surgical indications in irreversible broncho-pulmonary
changes in children. Gruzlica 33 no.8:703-708 Ag 1 65.

1. Z Dziecięcego Ośrodka Sanatoryjnego- Prewentoryjnego w Fabce
(Dyrektor: dr. med. J. Rudnik).

ZUK, I.; POTOCKI, A. [translator]

An investigation on polyploidy and sex determination within the genus
Rumex. Acta soc botan Pol 32 no.1:5-67 '63.

1. Department of General Genetics, Polish Academy of Sciences, Warsaw.

ZUK, J.

Increasing the efficiency of combines and eliminating loss during the harvest of grain.
p. 263

(Ministerstvo zemedelstvi) Praha. [Publication on mechanization of agriculture
issued by the Ministry of Agriculture. Semi-monthly/

Vol. 5, No. 14, July 1955

SOURCE: East European Accessions List (EEAL) Library of Congress.
Vol. 5, No. 1, January, 1956

GALCZYNSKA, Maria; ZUK, Janina

Effect of retarding agents on the stability of vitamin C
solutions in ampuls. Acta Pol. pharm. 20 no. 6: 441-445 '63.

1. Z Zakladu Farmacji Stosowanej Akademii Medycznej w Lodzi
(Kierownik: prof. dr F. Modrzejewski).

S/194/62/000/002/005/096
D230/D301

AUTHORS: Przybylski, Tadeusz, Zuk, Mieszysław and Hebel,
Zygmunt

TITLE: Constant-current analyzer

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,
no. 2, 1962, abstract 2-1-33zh (Zesz. nauk. Politechn.
gdansk., 1960, no. 21, 63-70)

TEXT: The Department of Electrical Engineering of the Gdansk Poly-
technic Institute has developed, for own use, a new constant-cur-
rent analyzer. Five types of the variable potentiometer were used
as standard resistance boxes: 0.2; 2.5; 5; 50 and 100 kohms; the
resistance values for a given position were determined using an
ohmmeter. The potentiometers are divided into two groups of 60, in
each of the vertical analyzer fields; they are connected by means
of two single-cord jack and sockets in the "simulation field" cir-
cuit containing 48 switching stations with sockets. 200 and 500
ohm-potentiometers are used as auxiliary junction points for the

Card 1/3

Constant-current analyzer

S/194/62/000/002/006/096
D230/D301

simulation field; these points are connected with the corresponding socket junction points of the measured field which are used for measuring resistances, currents and voltages. The measuring instruments are mounted on the board of the analyzer. In the upper part of the analyzer there is the power supply switching field, distributing the voltage to 5 junction points and to sockets (each junction point consists of 5 sockets). The measuring ammeter is supplied with a range switch, current polarity switch and an auxiliary resistance used for calculating errors introduced by the internal resistance of the ammeter. In the analyzer circuit there are two class 0.5 ammeters for currents 1.5; 3 and 7.5 and 15, 30 and 75 ma. Voltage and resistance measurements are made with a valve voltmeter having ranges 3, 10, 30 and 100 V. The accuracy of voltage and resistance measurements is 3 and 5 percent, respectively (for the measuring range 0.1 to 100 kohms). A. c. or d.c. mains at 220 V provides the power supply; the circuit has five stabilized rails, 0 to 80 V (max. load of each rail 30 ma). The analyzer is inexpensive and small in size; it is thus suitable for use at the

Card 2/3

Constant-current analyzer

S/194/62/000/002/006/096
D230/D301

Polytechnic laboratories, technical colleges and also for design
(and similar) organizations. 4 figures. [Abstracter's note: Com-
plete translation.]

Card 3/3

MALAWSKI, Stefan; ZUK, Tomasz; GAWLIK, Zbigniew

Cystic degeneration of the semilunar cartilages of the knee. Chir.
narz. ruchu 23 no.1:51-56 1958.

1. Ze szpitala Wojskowego i z Zakładu Anatomii Patologicznej A.M. w
Warszawie. Kierownik: prof. dr L. Paszkiewicz. Adres: Warszawa,
ul. Wawolnicka 28:30 m. 15.
(KNEE, cysts
lateral meniscus surg. (Pol))

ZUK, TOMASZ

ZUK, Tomasz (Warszawa, ul. Szczęśliwicka 23 m. 6.)

Scoliosis in the light of electrodiagnostic data. Chir. narz. ruchn
22 no.2:131-138 1957.

1. Z Kliniki Ortopedycznej A. M. W Warszawie Kierownik: prof. dr
A. Graca.

(SCOLIOSIS, etiol. & pathogen.

decreased musc. tonus on convex side, electrodiag. (Pol))

(ELECTRODIAGNOSIS, in var dia.

scoliosis, determ. of decreased musc. tonus on convex
side (Pol))

(MUSCLES, physiol.

→ decreased musc. tonus on convex side of scoliosis,
pathogen. significance (Pol))

ZUK, Tomasz; ZMYSLOWSKI, Wieslaw; CZAYKOWSKI, Leszek

Electrodiagnostic picture of scoliosis following operation. Chir. narz.
ruchu 22 no.3:297-303 1957.

1. Z Kliniki Ortopedycznej A. M. w Warszawie. Kierownik: prof. A. Grupa
(SCOLIOSIS, surg.
dystonic scoliosis, postop. chronaximetry & electromyography
(Pol))

ZUK, Tomasz (Warszawa 22, ul. Szczerbińska 23 m. 662,6)

Significance of chronaximetry in myodystopia fetalis deformans
(arthrogryposis) & related diseases. Chir. narz. ruchm 22 no.6:
589-595 1957.

1. Z Kliniki Ortopedycznej A. M. w Warszawie. Kierownik: prof. dr A.
Gruca.

(JOINTS, abnorm.

arthrogryposis, multiplex, chronaximetry (Pol))

SOBKOWICZ, Hanna; WARECKA, Krystyna; ~~ZUK, Tomasz~~

Attempted ambulatory rehabilitation of school-age children with cerebral paralysis. Neur.&c.polska 10 no.6:809-820 '60.

1. Z Miedzyszkolnej Przychodni Lekarskiej w Warszawie, Kierownik: dr K. Sokal. Z Kliniki Neurologicznej A.M. w Warszawie p.o. Kierownika: Prof. dr I.Hausmanowa-Petrusewicz. Z Kliniki Ortopedycznej A.M. w Warszawie, Kierownik: prof. A.Gruca.
(CEREBRAL PALSY rehabil)

ZUK, Tomasz

Electromyographic examination in scoliosis, Chir.narz.ruchu
ortop.polska 25 no.6:589-595 '60.

1. Z Kliniki Ortopedycznej A.M. w Warszawie, Kierownik: prof.
dr A.Gruca.

(SCOLIOSIS diag)
(ELECTROMYOGRAPHY)

ZUK, Tomasz

Electromyographic studies in scolioses treated by conservative and surgical methods. Chir. narz. ruchu ortep. polska 26 no.1: 27-32 '61.

1. Z Kliniki Ortopedycznej AM w Warszawie Kierownik: prof. dr A. Graca.

(SCOLIOSIS ther) (ELECTROMYOGRAPHY)

ZUK, Tomasz

Indications and control of therapeutic results in spastic paralysis (according to electrodiagnostic studies). Chir. narz.ruchu ortop. polska 26 no.2:157-164 '61.

1. Z Kliniki Ortopedycznej A.M. w Warszawie Kierownik: prof. dr A.Gruca.
(PARALYSIS SPASTIC diag) (ELECTROMYOGRAPHY)

SOBKOWICZ, Hanna; ZUK, Tomasz

Effect of Flexin on spasticity in infantile cerebral palsy. Neurol. neurochir. psychiat. pol. 12 no.1:55-62 '62.

1. Dział Profilaktyki Wojewodzkiej Przychodni Higieny Szkolnej w Warszawie Kierownik: dr med. K. Sokal Klinika Neurologiczna AM w Warszawie Kierownik: prof. dr med. I. Hausmanowa-Petrusewicz Klinika Ortopedyczna AM w Warszawie Kierownik: prof. dr med. A. Graca.

(ZOXAZOLAMINE ther) (CEREBRAL PALSY ther)

ZUK, Tomasz

Congenital flatfoot. Chir. narząd. ruchu ortop. pol. 27 no.6:729-739
'62.

1. Z Kliniki Ortopedycznej AM w Warszawie, Kierownik: prof. dr A. Gruca.
(FLATFOOT)

ZUK, T.

Etiopathogenesis of scoliosis according to electromyographic findings.
Acta chir. orthop. trauma. Cech. 29 no.1:69-74 P '62.

1. Ortopedicka klinika Lekarske akademie ve Varsave, prednosta prof.
dr. A. Gruca, clen akademie.

(SCOLIOSIS etiol) (ELECTROMYOGRAPHY)

ZUK, Tomasz

Regeneration of healing of resected muscles. Chir. narzad.
ruchu ortop. Pol. 29 no.3:323-329 '64.

1. Z Kliniki Ortopedycznej Akademii Medycznej w Warszawie
(Kierownik: prof. dr. med. A. Grucza).

Products

1898. Gas analysis using mass spectroscopy. W. Zuh. *Natura (Berlin)*, 1957, p. 200-8, 238-40. The construction and working of Aston's mass spectrograph is explained. 3 samples of mixed hydrocarbons are analysed as an illustration. The presence of CO₂, N₂ and O₂ interferes, giving peaks indistinguishable from some hydrocarbons.

AF
2/2/57

ZUK, W.

Fuel Abstracts
June 1954
Analysis, Testing
Instruments

1325. GAS ANALYSIS USING MASS SPECTROGRAPHY. ZUK, W. (Harte
 (Petroleum, Krakow), 1954, vol. 9, 222-223, 132-210) The construction and
 working of Astor's mass spectrograph is explained. 3 samples of mixed
 hydrocarbons are analysed as an illustration. Presence of carbon dioxide,
 nitrogen, and oxygen interferes, giving peaks indistinguishable from some
 hydrocarbons.

10-15-54
ZUK

200, W.

Distr: 4E3c/4E3d

19

7 Ion source for the isotopic analysis of nonvolatile elements. *Włodzisław Żuk* (Univ. Lublin, Poland). *Ann. Univ. Mariae Curie-Skłodowska, Lublin, Polonia, Sect. A.A.* 11, 13-22 (1958) (English summary); cf. preceding abstr. The equipment was supplemented by a 0.03-c. vessel, described in detail, in which a sample of up to 100 mg. is evaporated on heating to about 1000-1800° with a 12-w. heater. Expts. on PbS are described. Curves of ionic current are given. *J. Stecki*

9c
11

[Handwritten signatures and initials]

Distr: 4E3c 2 cys

/ Electromagnetic separation of isotopes of Te, Tl, Pb,
 and Br, from nonvolatile compounds. Włodzisław Żuk
 (Univ. Lublin, Poland). *Ann. Univ. Mariae Curie-
 Skłodowska, Lublin-Polonia Sect. AA*, 12, 1-14 (1969).
 (English & Russian summaries).—The theory of electromag-
 netic sepn. with 90° magnetic lenses is briefly discussed and
 the app. is described. Te, TlCl, PbCl₂, and AgBr,
 were sepd. electromagnetically; optimum temps. were 1000,
 600, 730, 600, and 900°, mean ionic currents 3, 5, 3, 3, and
 0.5 μamp., and yields 0.15, 3.0, 0.8, 2.5, and 0.26%, resp.
 J. Szekst

2010

4
1-ndw
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2010

Distr: ~~LES30/LES3d~~

14
✓ Electromagnetic separators and their application in nuclear physics. ~~BYE (HOLLER) ZUK (MURK) A. (M. F. (M. S.)),~~
Nukleonnika 3, 490-512 (1955) (Russian), 17 refs. (E-
view with particular reference to design details of small size
separators with ion currents of 10^{-8} amp. 17 references.
J. Steele

3
2

POLAND/Nuclear Physics - Installations and Instruments
Methods of Measurement and Research.

C

Abs Jour : Ref Zhur Fizika, No 8, 1959, 17215

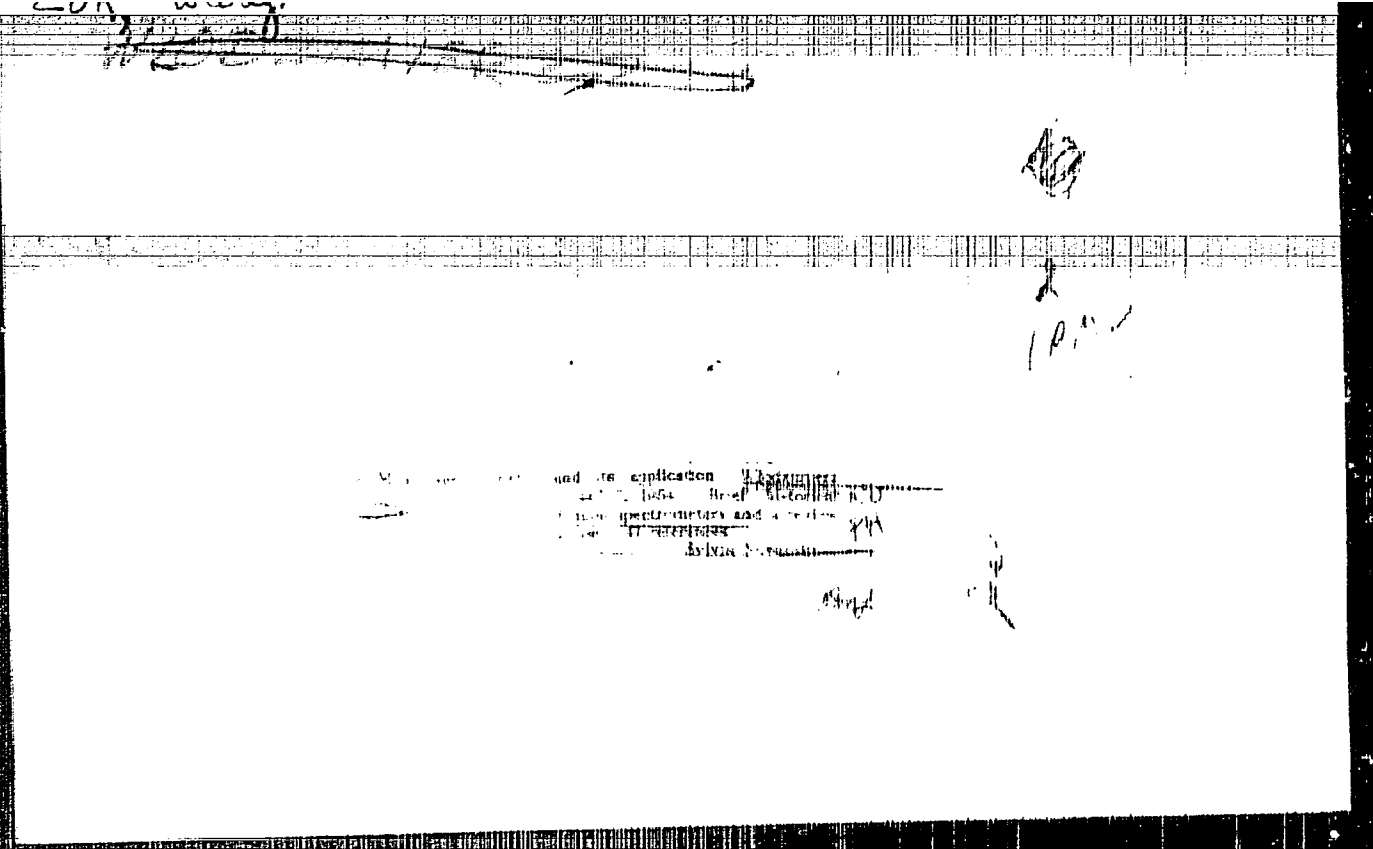
Author : Zuk, Wlodzimierz

Inst : University Maria Curie-Sklodowska, Lublin, Poland

Title : Electromagnetic Separators and Their Use in Nuclear
Physics.

Orig Pub : Description of a construction of separators is given
along with the theoretical premises of the separation
of ions masses using a homogeneous magnetic field.
An example of a 90° separator, which makes it possible
to obtain ion currents on the order of 10⁻⁵ amperes
and quantities of isotopes on the order of a milligram,
was examined in greater detail. Methods are described
for collecting the isotopes on metallic targets and for
using the compounds thus obtained in beta and gamma
spectroscopy.

Card 1/1



ZUK, W.

Distri $LiE3c/LiE3d$

~~New mass spectrometer for gases for gas analysis.~~
~~Włodzisław Zak (Univ. Lublin, Poland), Ann. Univ.~~
~~Warszawy, Seria Fizykochemia, Lublin-Polonia, Sect. AA, 11,~~
~~1-12 (1958) (English summary).—A detailed description is~~
~~given. The construction makes possible the exchange of~~
~~the cathode and cleaning of the anode without alteration of~~
~~ion slits. Electron and ion currents were held for N and~~
~~CO₂. The ion efficiency was 1.4×10^{-3} . The ratio of ion~~
~~beam to electron beam intensities was 3.8×10^{-3} , reducing~~
~~power about 80.~~
 J. Stuchi

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1/1

pe. JJJ

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ZUK, W.

Electromagnetic isotope separators and their application in nuclear physics, p. 499

Nukleonika. (Polska Akademia Nauk. Komitet do Spraw Położowego Wykorzystania
Energii Jadrowej) Warszawa . Vol 3, no 5, 1958.

PLAND

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

Uncl.

COUNTRY : Poland
CATEGORY : Laboratory Equipment. Instrumentation
ABS. JOUR. : RZKhim., No. 16 1959, No. 56980
AUTHOR : Zuk, W.
INST. : M. Curie-Sklodowska University
TITLE : Ion Source of New Design for Use in the Mass Spectrometric Analysis of Gases
ORIG. PUB. : Ann Univ M. Curie-Sklodowska, A11, 1-12, 1956 (1958)
ABSTRACT : A Nier-type ion source for mass-spectrometric analysis is described. The design of the source allows for changes of the cathode and the cleaning of the anode without necessitating the disassembly of the source and without disturbing the position of the slits. The dependence between the individual electronic currents in the ion source as well as the dependence of the ion currents on the intensity of the ionizing electron current and on the gas pressure

CARD: 1/2

COUNTRY : Poland F
CATEGORY : Laboratory Equipment. Instrumentation
ABS. JOUR. : RZKhim., No. 16 1959, No. 56981
AUTHOR : Zuk, W.
INST. : M. Curie-Sklodowska University
TITLE : Ion Source for Isotope Analysis of Elements

ORIG. PUB. : Ann Univ M. Curie-Sklodowska, A411, 15-21, 1956 (1958)

ABSTRACT : An ion source for a mass spectrometer which can be used in the isotope analysis of both gaseous and low-vapor-pressure liquid elements is described. The source is equipped with an electrically heated vaporizer of 30-mm³ capacity. The vaporizer block is equipped with a tapered ground glass joint which makes it possible to change the sample without removing and taking apart the entire source. Data on the operation

CARD: 1/2

ACC NR: AP6000050

SOURCE CODE: FO/0044/65/010/005/0001

AUTHOR: ~~Zuk, Wladimir; Zuk, V.; Goworek, Tamasz; Goworek, T.; Skorzynski, Zbigniew~~
~~Skorzynski, Z.~~

ORG: Department of Experimental Physics, M. Curie-Skłodowska University, Lublin

TITLE: Measurements of gamma-gamma angular correlation in ¹⁴⁰La 19.65

SOURCE: Nukleonika, v. 10, no. 5, 1965, 261-268

TOPIC TAGS: lanthanum, radioisotope, gamma ray, spectrometer, radiation detector

ABSTRACT: Measurements of gamma-gamma angular correlation for ¹⁴⁰La were carried out by means of a gamma-gamma directional correlation apparatus consisting of a coincidence spectrometer with two detectors, one fixed and the other movable. The movable detector was adjusted at angles 90, 135, 180, and 225° with respect to the fixed detector. For the 304-162 keV cascade about 25,000 coincidences were collected for each position of the movable counter. This allowed determination of the angular correlation coefficients: $A_2 = 0.060 \pm 0.007$, $A_4 = 0.020 \pm 0.014$. Assuming the spin sequence 1-2-3 for the 304-162 keV cascade, the radiation should have a mixed multipolarity (D,Q) for both transitions of this cascade. The measurements of a low energy line 30 keV + x-ray correlation with the 537 keV gamma line also showed a distinct anisotropy, and allowed for determination of $A_2 = 0.030 \pm 0.013$ without correction for the x-ray component. Orig. art. has 7 figures, 1 table, and 3 formulas. [NA]

Card 1/1

SUB CODE: NP / SOEM DATE: none / OTH REF: 006 / SOI REF: 001

07010319

20K, W.

Distr: 4E3c/4E3d

19

Ion source for the isotopic analysis of nonvolatile elements. Włodzisław Zok (Univ. Lublin, Poland). *Ann. Univ. Mariae Curie-Skłodowska, Lublin-Poland, Sect. A4*, 11, 13-22 (1958) (English summary); cf. preceding abstract. The equipment was supplemented by a 0.03-cc. vessel described in detail, in which a sample of up to 100 mg. is exposed on heating to about 1600-1800° with a 12-w. heater. Experiments on PbS are described. Curves of ionic current are given. J. Stekl

gc
1/1

5
2

gc
gc

ZUK, W.

ZUK, W. Investigation of Ionization Phenomena in a Mass Spectrometer. Lublin. Univwersytet Marii Curie-Skłodowskiej. Roczniki. Dział AA: Fizyka i chemia, 1949, v. 4, no. 1-5, p. 67.

ZUK, W.

ZUK, W. Mass Spectrometry Applied in Research on the Upper Strata of the Atmosphere. Postepy fizyki, 1953, v. 4, no. 3, p. 374.

ACCESSION NR: AP4015996

P/0047/63/014/006/0703/0716

AUTHOR: Zuk, Wlodzimierz

TITLE: Some problems of mass spectrometry and spectroscopy of the atomic nucleus

SOURCE: Postepy fizyki, v. 14, no. 6, 1963, 703-716

TOPIC TAGS: mass spectrometry, nuclear spectroscopy, gas ionization, surface ionization, gas discharge spectrum, isotope separation, molecular structure determination, isotopic composition, plasma physics, beta spectrometer, electromagnetic isotope separator, thermionic emission source, gamma spectrometer, nuclear decay scheme, ion bombardment, photoionization

ABSTRACT: After sketching the history of the Department of Experimental Physics at the Marie Curie Sklodowska University in Lublin, founded in 1946, the author briefly discusses mass spectrometry and traces its development. He then proceeds to consider mass spectrometry in its current applications, which include: investigations of elementary ionization phenomena in gases; surface ionization; discharges in gases and plasma physics; isotopic composition of elements; applications in chemistry (determination of the composition of mixtures on the basis of mass spectra, determination of molecular structure, and study of chemical kinetics and free

Card 1/2

ACCESSION NR: AP4015996

radicals). A brief account of the methods of investigation is given, following which the author presents the mass spectrometry problems currently under investigation at the Department, which he classifies into four groups: (1) determination of the isotopic composition of elements and of the ratios of mass spectral peaks, (2) study of ionization phenomena in gases, (3) separation of isotopes, and (4) technical problems of measurement and equipment. These activities are illustrated by some results obtained in the last few years. Investigations in the field of nuclear spectroscopy conducted in the Department are also discussed. Orig. art. has: 4 figures.

ASSOCIATION: Katedra Fizyki Doswiadczalnej UMCS, Lublin (Experimental Physics Department of Marie Curie Sklodowska University)

SUBMITTED: 00

DATE ACQ: 03Feb64

ENCL: 00

SUB CODE: PH, NS

NO REF SOV: 009

OTHER: 075

Card 2/2

ZUK, Włodzimierz, prof. dr.

Education, the higher school system and organization of scientific research in Sweden. Problemy 18 no.7:499-506 '62.

1. Kierownik Katedry Fizyki Doswiadczalnej, Uniwersytet Marii Curiesklodowskiej, Lublin.

~~WLODZIMIERZ~~, ZUK, W

POLAND/Nuclear Physics

C-2

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 11000

Author : Zuk Wlodzimierz

Inst : Not given

Title : Non-Classical Methods of Mass Determination

Orig Pub : Postepy fiz., 1956, 7, No 5, 539-454

Abstract : No abstract.

Card 1/1

L 39039-66

ACC NR: AP6018292

SOURCE CODE: PO/0047/65/016/006/0681/0699

AUTHOR: Zuk, Włodzimierz

45
B

ORG: Department of Experimental Physics, MCS University, Lublin (Katedra Fizyki
Doświadczalnej Uniwersytetu MCS)

TITLE: The use of electromagnetic isotope separators for studying the reaction
between moderate energy ions and matter

19

SOURCE: Postępy fizyki, v. 16, no. 6, 1965, 681-699

TOPIC TAGS: isotope separation equipment, ion beam, neutron interaction

ABSTRACT: The author reviews the literature on electromagnetic separators of moderate size and their application in scientific research. The prototypes of the presently used separators are briefly discussed and the use of ion separators in nuclear physics is considered. Some of the recent literature on interaction between ions and matter is reviewed. Some basic principles are discussed relating to the interaction between matter and ion beams containing neutral atoms and multiply-charged ions as well as single elastic scattering of ions in a gas and the deceleration of ions in metal targets. Orig. art. has: 9 figures, 1 table, 16 formulas.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 017

Card 1/1 *MLL*

ZUK, Włodzimierz

Certain problems of the spectrometry of masses and the spectroscopy of the atomic nucleus. Postępy fizyki 14, no.6:703-716 '63.

1. Katedra Fizyki Doswiadczalnej, Uniwersytet im. Marii Curie-Skłodowskiej, Lublin.

POLAND

ZUK, Włodzimierz

Dept. of Experimental Physics, Marie Curie-Skłodowska Univ. (Katedra Fizyki Doświadczalnej Uniwersytetu MCS), Lublin

Crakow, Postepy fizyki, No 6, Nov-Dec 1965, 681-699

"Research on the reaction of medium-energy ions with matter during application of electromagnetic isotope separators."

ZUK, W.

Journal of the Institute of Petroleum
Vol. 40 No. 362
Feb. 1954
Products

① Fuel

137. Gas analysis using mass spectrophotograph. W. Zuk, *Nafta* (Kosov), 1952, 8, 226-31. The construction and working of Anton's Mass Spectrophotograph is explained. 3 samples of mixed hydrocarbons are analysed as an illustration. Presence of CO₂, N₂, and O₂ interferes, giving peaks indistinguishable from other hydrocarbons. H. B.

ZUK, W.

"Mass spectrometry applied in research on the upper strata of the atmosphere" p. 374
(postępy fizyki, Vol. 4, No. 3, 1953, Warszawa)

SO: Monthly List of East European Vol. 3, No. 3
Accessions/ Library of Congress, March 1953⁴, Uncl.

355.37

NSB
1

6106. Phosphorescence of potassium chloride crystals activated with thallium. *Proc. Roy. Soc. Lond. Ser. A, Math. Phys. Eng. Sci.*, 61: 89 (1948).—KCl mentioned with eq. TIND, is fired, and KCl crystals are grown from the melt. A spark discharge (Al electrodes) excites phosphorescence of the crystals, the intensity rising with increasing (T), to a max. at 0.003 mol.-%, thereafter falling. For the series KCl, NaCl, KBr, NaBr and KI (all 0.01 mol.-% T) intensity of luminescence (I) falls in the order given. Increasing duration of excitation over 3 sec. or (shortening the excited phosphors with red light, causes quenching of the luminescence; the effect of red light being most marked during the initial period. The $\log I - \log t$ curves, where t is time in sec after excitation, consist of 3 branches, of which the third, at $t = 4 \times 10^{-4}$ sec, corresponds with a bimolecular recombination reaction. The shape of the curves suggests that the crystals contain 2 zones, A and B, with a time of passage of an electron through zone B of 300-400 sec. The first branch of the curves corresponds with a recombinational reaction in zone B. The nature and intensity of luminescence are unaffected by repeated excitation.

B. A.

ASD 51A METALLURGICAL LITERATURE CLASSIFICATION

CA

3

Ionization phenomena in a mass spectrometer. Włod-
zimierz Zakrzewski (Univ. Mariae Curie-Skłodowska, Lublin,
Poland). *Ann. Univ. Mariae Curie-Skłodowska, Lublin-
Polonia, Sect. AA*, 4, 67-110 (1960) (Pub. 1961) (English
summary).—Z. describes a spectrometer of the Nier type,
and outlines exptl. results of investigated ionization phenom-
ena of air, N, O, and CO₂. The relation between the amount
of produced ions and electron beam was found to be linear
and equal to 12 ions/cm. electron beam, while the intensi-
ty of the ion current was almost const. for certain values
of the electron current. It was shown that the intensity
of the ion current above its threshold value depends on the
accelerating potential only if the slit of the ion gun is too
wide or if the gas pressure between two slits (ion-gun slit and
output slit) is too high.
Sylvia Nowinska

PROCESSES AND PROPERTIES INDEX

3

Phosphorescence of potassium chloride crystals activated by thallium. Włodzimierz Żuk. *Ann. Univ. Mariae Curie Skłodowska Lublin-Polonia*, Sect. AA, 1, 63-89 (1940) (in French).—The phosphorescence of crystals contg. 0.01 mol. % Tl decreased in the order shown: KCl, NaCl, KBr, NaBr, KI. The optimum concn. of Tl in KCl was found to be 0.0032 mol. % (range investigated was 0.00032-0.032 mol. % Tl). The duration of phosphorescence with time of activation (discharge of Al electrodes) was studied, and the results are discussed.

H. H. Simant

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM DIVISION

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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ZUK, Zbigniew

Evaluation of some methods for the determination of total serum lipids. Wiad. lek. 18 no.13:1099-1105 1 XI '65.

1. Z Zakładu Analizy Lekarskiej 2 Centr. Szpitala Klin. Wojskowej Akademii Medycznej (Kierownik: dr. med. N. Symonowicz).

CZECHOSLOVAKIA / Analytical Chemistry--Analysis of inorganic substances.

E-2

Abs Jour : Ref Zhur - Khimiya, No 14, 1959, No. 49229

Author : Mraz, L.; Simon, V.; Zuka, J.

Inst : Not given

Title : Titrations with Hydroquinone and Similar Reducing Agents. XI. The Determination of Cerium in Various Materials

Orig Pub : Chem Listy, 52, No 7, 1354-1356 (1958)

Abstract : The method discussed in Communication I (RZhKhim, No 9, 1959, 30966) for the titration of Ce (4+) with hydroquinone has been applied to the determination of Ce in monazite sands, cerite metal (Ce, La, Pr, Nd, Y, Fe, Ni, Si, Mg, Ca), Al-Th-Ce alloy, Auer gas mantles, and in the raw material wastes during electrolysis [sic]. Ce (3+) is first oxidized to Ce (4+) with K or ammonium

Card 1/3

E-15

CZECHOSLOVAKIA / Analytical Chemistry--Analysis of inorganic substances.

Abs Jour : Ref Zhur - Khimiya, No 14, 1959, No. 49229

E-2

persulfate in the presence of Ag+ as catalyst, and the solution is then titrated with 0.1% 0.001 N solutions containing 1% H2SO4 as a stabilizer. Potentiometric or visual (ferroin indicator) techniques are used in the determination of the endpoint. The probable average error in the determinations is +0.35%; many cations (e.g., Co2+, Zn2+, Cu2+, Cd2+, Na+, and K+) do not interfere with the titration even when present in high concentrations. The presence of large amounts of Fe(3+), Pb(2+), Al(3+), Ni(2+), Mo(6+), Ag+, Bi(3+) and As(5+) introduces considerable errors (the first two cations cause positive deviations, whereas the rest introduce negative deviations). The presence of Hg(2+), W(6+), Sb(5+), Ca(2+), Sr(2+), Ba(2+), and Rh(3+) even in small amounts leads to a lowering of the results. The

Card 2/3

CZECHOSLOVAKIA / Analytical Chemistry--Analysis of inorganic substances.

E-2

Abs Jour : Ref Zhur - Khimiya, No 14, 1959, No. 49229

persulfate in the presence of Ag^+ as catalyst, and the solution is then titrated with 0.1 - 0.001 N solutions containing 1% H_2SO_4 as a stabilizer. Potentiometric or visual (ferroin indicator) techniques are used in the determination of the endpoint. The probable average error in the determinations is $\pm 0.3\%$; many cations (e.g., Co^{2+} , Zn^{2+} , Cu^{2+} , Cd^{2+} , Na^+ , and K^+) do not interfere with the titration even when present in high concentrations. The presence of large amounts of Fe^{3+} , Pb^{2+} , Al^{3+} , Ni^{2+} , Mo^{6+} , Ag^+ , Bi^{3+} and As^{5+} introduces considerable errors (the first two cations cause positive deviations, whereas the rest introduce negative deviations). The presence of Hg^{2+} , W^{6+} , Sb^{5+} , Ca^{2+} , Sr^{2+} , Ba^{2+} , and Rh^{3+} even in small amounts leads to a lowering of the results. The

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CZECHOSLOVAKIA / Analytical Chemistry--Analysis of inorganic substances.

E-2

Abs Jour : Ref Zhur - Khimiya, No 14, 1959, No. 49229

presence of Pd(2+) makes the determination of Co totally impossible. The method is suited also to the determination of small amounts of Co(0.01 - 0.02%) in steel; however, in the latter case complications set in when high concentrations of Cr and Mn are present. -- K. Kamen

Card 3/3

E-16

MURGULESKU, I.G. [Murgulescu, I.G.]; ZUKA, Sht. [Zuka, St.]

Viscosity of melts in the system $\text{Na}_2\text{AlF}_6 - \text{BaCl}_2$. Izv. vys.
ucheb. zav.; tsvet. met. 4 no.6:33-37 '61. (MIRA 14:12)

1. TSentr khimicheskikh issledovaniy Akademii nauk Rumynskoy
Narodnoy Respubliki. Rekomendovana kafedroy metallurgii legkikh
metallov Krasnoyarskogo instituta tsvetnykh metallovo.
(Aluminum--Electrometallurgy)
(Viscosimetry)

48
Card 3/3

ZUKAKOVA, I.B. (Tula)

Mycosis fungoides. Arkh. pat. no.12:74-77 '62 (MIRA 18:1)

1. Iz patologoanatomicheskogo otdeleniya (zav. - I.I. Gets)
Tul'skoy oblastnoy bel'nitsy (glavnyy vrach-zasluzhennyy
vrach RSFSR I.A. Tumayan).

ZUKAYANTS, Sarkis Avanssovich; IVANAYEV, Mily Ivanovich; LEBEDEV,
Valentin Georgiyevich; ZELKOVICH, P.M., inzh., red.; KHITROV,
P.A., tekhn.red.

[Underground construction; a follow-up on materials published
abroad] Stroitel'stvo podzemnykh sooruzhenii (po materialam
zarubezhnogo opyta). Moskva, Gos.transp.zhel-dor.izd-vo,
1959. 86 p. (MIRA 12:3)

(Underground construction)

DUBININ, M.M., akademik; KADLETS, O.; BOTLIK, I.; ZAVERINA, Ye.D.
[deceased]; ZUKAL, A.; SUMETS, B.

Carbon adsorbents with molecular sieve properties. Dokl. AN
SSSR 157 no.3:656-659 JI '64. (MIRA 17:7)

1. Institut fizicheskoy khimii AN Chexoslovatskoy SSR i
Institut fizicheskoy khimii AN SSSR.

FENYES, Tamas; KORMENDY, Laszlo; ZUKAL, Endre

Mathematical examination of the light caused fading process in corned
beef. Pt. 1. Mat kut kozl MTA 8 Series B no.4: 529-540 '63 (publ. '64).

1. National Meat Industry Research Institute, Budapest (for Kormendy and
Zukal).

ZUKAL, A.

CSJUNGJWAKA

KUBIRIN, N.M.; KALLEC, G.; ZUKAL, A.

1. Institute of Physical Chemistry, Czech Academy of Sciences, Prague
(for Kubirin); 2. Institute of Physical Chemistry, Czechoslovak
Academy of Sciences, Prague (for Kallec and Zukal)

Prague, collection of Czechoslovak Chemical Communications, No 2,
Feb 1966, pp 406-414

"Adsorption equilibria of water on NaCl zeolite."

ZUKAL, F.

Blades of blast apparatus with rubber lining. p. 10.

SLEVARENSTVI. Praha, Czechoslovakia, Vol. 7, no. 1, Jan. 1959.

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

ZUKAL, F.

Sintered carbide as material for blades of sandblast-cleaning machines. p.106.

SLEVARENSTVI. (Ministersivo tezkého strojírenství a Československá vědecká
technická společnost pro hutnictví a slevarensví). Praha, Czechoslovakia,
Vol. 7, no. 3, Mar. 1959.

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

ZUKAL, F., inz.

Effect of the shape of wheel blades on the output of shot blasting machines. Strojirenstvi 13 no.9:686-692 9 '63.

1. Leninovy zavody Plzen, Vyzkumny ustav slevarenskych stroju, Brno.

Zuk-Kunaszewska Skrz 111

Poland/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1259

Author: Michalski, E., and Zuk-Kunaszewska, M.

Institution: None

Title: Electrometric Determination of Iodides by the Polarization of One Electrode

Original Periodical: [Tr. Note: This seems to be a book but is not marked by the letter K; publication data are Lodz. LTN, 1944, 18 pages]

Abstract: The titration is carried out with an apparatus consisting of 2 vessels, one of which contains KI solution and the other, a saturated solution of $Hg_2(NO_3)_2$. The vessels are connected by an electrolytic bridge filled with KNO_3 solution. Two Pt electrodes are immersed in the solutions and connected to a galvanometer which is switched on during the titration only for short intervals for the purpose of observing the deflection. The electrode immersed in the KI solution constitutes the anode and is depolarized during titration. After the attainment of

Card 1/2

Poland/*Analytical Chemistry - Analysis of Inorganic Substances, G-2*

Abst Journal: *Referat Zhur - Khimiya*, No 1, 1957, 1259

Abstract: equilibrium a sharp drop in the concentration of I^- ions takes place; this causes polarization of the anode and interrupts the current. Near the end of the titration the galvanometer can be switched on continuously (since the deflection is approaching zero). The mean error during the determination of 1/10, 1/50, 1/100, and 1/250 N solutions of KI is $\sim 0.05\%$; in the presence of chloride the error is $\sim 0.2\%$, and in the presence of bromide $\sim 1\%$.

Card 2/2

Zuk-Kunaszewska, M.

5

107. Electrometric determination of iodide based on the reaction of the iodide with silver ions
 and W. Zuk-Kunaszewska, (Lect. Journ. Chem. Soc. Section III, 1964, No. 36, 10 pp.) - A solution of an iodide to be titrated is connected by a bridge of KNO_3 with a $HgNO_3$ soln. Immersed in each soln are platinum electrodes, connected through a galvanometer. A small current is registered which is due to the reaction $2I^- + 2H^+ + 2e \rightarrow I_2 + H_2$. As the iodide soln is titrated with $HgNO_3$, the iodide concn. decreases because of the formation of HgI_2 and the current drops. At the equivalence point a sudden fall in the concn. of iodide produces polarisation and the current stops. Iodide solutions of 0.004 to 0.1% can be determined with a mean error of 0.05 per cent. Errors of 0.2 and 1 per cent, respectively, are obtained in the presence of chlorides and bromides. **Chem. Abstr.**

Small ①
Dik

L 3205-66 EWT(d)/EWT(m)/EPF(c)/EWP(v)/EWP(j)/T/EWP(l)/EWP(h)/EWP(1)/EIC(m) RU/NT

ACCESSION NR: AP5011990

UR/0374/65/000/001/0076/0081

44-1578-539-578

AUTHORS: ⁴⁴⁻⁵⁵ Zodalava, G. L. (Tiflis); ⁴⁴⁻⁵⁵ Bogacheva, Is. I. (Tiflis); ⁴⁴⁻⁵⁵ Gopokhiya, N. D. (Tiflis); ⁴⁴⁻⁵⁵ Zukakov, G. A. (Tiflis) ⁴¹ ^B

TITLE: The effect of ⁴⁴⁻⁵⁵ deformation rate ⁴¹ on the mechanical properties of ^B plastics

SOURCE: Mekhanika polimerov, no. 1, 1965, 76-81 ^{74 56}

TOPIC TAGS: plastic, mechanical property, deformation rate, tensometer, fiber-glass/ ^{2b} TsDM 10 ¹⁰ universal press, ^{2a} N 102 ^{1a} oscillograph, ^{2c} TA 5 ^{1b} amplifier

ABSTRACT: The effect of deformation rate on the mechanical properties of plastics was investigated. Tests were made on a TsDM-10 universal press. The load was recorded on motion-picture film with an N-102 oscillograph connected to a TA-5 amplifier. Deformation was measured by a tensometer designed by the authors. Tests were made on vinyl plastic and laminated fiberglass, and it was found that the deformation rate markedly affects the mechanical properties. Reduction of relative deformation rate for stretched vinyl plastic from $20\ 000 \cdot 10^{-6}$ sec⁻¹ to $5 \cdot 10^{-6}$ sec⁻¹ led to greater relative deformations: 25% for a deforming stress of 2 kg/mm², 59% for 4 kg/mm², and 66% for 5 kg/mm². For laminated fiberglass,

Card 1/2

L 3205-66

ACCESSION NR: AP5011990

reduction of the deformation rate from $2800 \cdot 10^{-6}$ to $1.3 \cdot 10^{-6}$ cm^{-1} under the same deforming stresses gave an increase of 58% in relative deformation. For both vinyl plastic and laminated fiberglass, these reductions in deformation rate at 25C caused a decrease of about 40% in the deformation modulus for each. The same reduction in rate for vinyl plastic and from $1000 \cdot 10^{-6}$ to $1.3 \cdot 10^{-6}$ cm^{-1} for laminated fiberglass caused a decrease in tensile strength of about 30 and 48% respectively. Orig. art. has: 3 figures, 3 tables, and 6 formulas.

ASSOCIATION: none

SUBMITTED: 12Oct64

ENCL: 00

SUB CODE: MT

NO REF SOV: 001

OTHER: 000

PC
Card 2/2

ZUKAL, A.; DUBININ, M.M.; KADLETS, O. [Kadlec, C.]; PLACHENOV, T.G.
[Placenov, T.]; POLAK, R.

Characteristics of the porous structure of active coals obtained
by various methods. Zhur. fiz. khim. 39 no.5:1198-1205 My '65.
(MIRA 18:8)

1. Institut fizicheskoy khimii AN Chekhoslovatskoy
Sotsialisticheskoy Respubliki, Praga.

Zukal, E.

✓ 81. Experiments in rice polishing - R. Kotta, E.
MD Zukal. (Rizemeest' 1947 - Vol 9, 1955, No 1, pp. 17-28, 71 figs)

Optimal technological conditions for rice polishing have been established by reproduction on a laboratory scale. Prior to polishing the grains must be gradually smoothed and the fine flour-like fragments carefully removed. Instead of a pure saccharose solution a 1:1 mixture of saccharose and starch syrup should be used for rough polishing. The above mixture should be added in 2 to 3 doses up to a total of 0.1 to 0.2% in a solution containing 4% starch. The starch solution does not and ought to be used in a dose of 0.1 to 0.2% and subsequent to rough polishing in order to prevent stickiness.



HUNGARY

TAKACS, J., ZUKAL, E.: Central Laboratory of Veterinary Meat Control Service (Head: TAKACS, J.) and Department of Qualitative Control, Meat Research Institute (Director: LORINCZ, F.) [Hungarian version not given], Budapest.

"Microbiological and Chemical Studies on Ripening of Sausage Products Conserved with salt and Dehydration."

Budapest, Acta Veterinaria Academiae Scientiarum Hungaricae, Vol 12, No 3, 1962, pp 257-261.

Abstract: [English article; authors' English summary abridged] Bacteriological criteria are satisfied if sausage products are free of pathogens, toxicogens and members of the coli-aerogenes group. The number of proteolytic organisms decreases on ripening caused by metabolic products of lactobacilli and other biochemical factors. Most of about a dozen references are western.

TAKACS, J.; ZUKAL, E.

Microbiological and chemical studies on ripening of sausage products conserved with salt and dehydration. Acta veter Hung 12 no.3:257-261 '62.

1. Central Laboratory of Veterinary Meat Control Service (Head:J.Takacs) and the Department of Qualitative Control, Meat Research Institute (Director:F.Lorincz), Budapest.

OJTOZY, Kristofna; ZUKAL, Endre

Food quality indexes and their evaluation. *Élelm ipar* 17 no.5:
155-159 My '63.

1. Fovarosi Vegyeszeti es Elelmiszervizsgalo Intezet. (for
Ojtozy). 2. Orszagos Husipari Kutato Intezet (for Zukal).

ZUKAL, Endre

Condensed phosphates and their application in the food industry
from the chemical point of view. *Elelm ipar* 14 no.4:115-118
Ap '60.

1. Országos Húsipari Kutatóintézet, Iparági Minőségellenőrző
Osztály.

ZUKAI, E.

Research in connection with perception by the sense organs and its mathematical
evaluation. I. p. 183.
(ELEMZESI Ipar. Vol. 9, no. 6, June 1955. Budapest.)

SO: Monthly List of East European Accession. (EEAL) Lc. Vol 4 Nov. 11 Nov. 1955 Uncl.

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