

RUMANIA/Analytical Chemistry - Organic Analysis.

E

Abs Jour : Ref Zhur Khimiya, No 20, 1959, 71280

solution of I (0.1 - 0.3% I); III is added to a volume of 10 ml and the absorbancy is measured using Pulfrich's photometer with the filter S42, S43, or S47. The presence of m-aminophenol (an impurity in I) and the hydrazide of isonicotinic acid phthylazide do not interfere with the determination of I. -- B. Manole

Card 2/2

- 12 -

20110425, 6

Country : RUMANIA E
Category: Analytical Chemistry. Analysis of Inorganic
Substances

Abs Jour: RZhKhim., No 17, 1959, No. 60544

Author : Constantinescu, D.G.; Bainulescu, G.; Otelcanu R.
Inst : -
Title : New Photometrical Determination Method for the
Trivalent Antimony in the Presence of Trivalent
Arsenic

Orig Pub: Studii si cercetari chim. Acad. RPR, 1958, 6,
No 3, 438-444

Abstract: It has been established that in the interaction
of Sb^{3+} with quercetin in a methanol medium at
pH of approx. 4.5 a yellow coloration is develo-

Card : 1/3

Country : RUMANIA

E

Category: Analytical Chemistry. Analysis of Inorganic Substances

Abs Jour: RZhKhim., No 17, 1959, No. 60544

ped with the maximum intensity at 420 m μ . The Berg's law is followed at a Sb concentration of 1.37 - 10.98 μ /ml. The presence of As³⁺ in a solution up to a ratio of Sb:As = 1:6 does not interfere with the Sb determination. For the microdetermination of Sb³⁺, to a volume of 0.5-4 ml of a methanol solution of SbCl₃(+AsCl₃) are added 1 ml of a buffer solution (150 gr CH₃COONa, 150 ml glacial CH₃COOH and 250 ml water) and 2 ml of 0.05% methanol solution of quercetin, diluted then with methanol up to 10ml and subjected to a photometric test using S 42

Card : 2/3

E-19

BAIULESCU, G.; NEGOIU, D.; POPA, G.

Colorimetric determination of Pd(II) in the presence of Pt(IV). p. 73.

STUDII SI CERCETARI DE CHIMIE. Bucuresti, Rumania.
Vol. 7, no. 1, 1959.

Monthly List of East European Accession (EEAI). LC, Vol. 8 No. 9, September, 1959

Uncl.

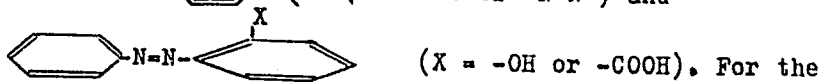
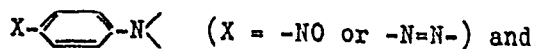
5(2)

AUTHORS: Popa, G., Negoiu, D., Baiulescu, G.

SOV/75-14-3-12/29

TITLE: On the Problem of Functional-analytical Grouping for Palladium
(K voprosu o funktsional'no-analiticheskikh gruppirovkakh na palladiy)PERIODICAL: Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 3, pp 322-330
(USSR)

ABSTRACT: The purpose of the investigation was a) the detection of a more general functional group for Pd than that given by L. M. Kul'berg (Ref 3), and b) to devise a sensitive photometric method of palladium determination also in the presence of platinum. As functional groups the following are given (Table 1)



photometric determination of palladium 22 organic dyes were investigated (Table 2) and from among them benzyl orange, methyl orange, "Magnezone 1" (2,4-oxy-4'-nitroazobenzene)

Card 1/2

SOV/75-14-3-12/29

On the Problem of Functional-analytical Grouping for Palladium

and methyl red were chosen (Table 3). Finally, by a comparison of the light absorption spectra methyl red was found to be the best reagent which was used for the determination of palladium in the presence of platinum at a ratio of Pd : Pt = 1 : 14. There are 3 figures, 7 tables, and 3 references, 1 of which is Soviet.

ASSOCIATION: Parhon State University, Bucharest, Rumania

SUBMITTED: March 18, 1958

Card 2/2

BAIULESCU, Gh.

Tartrazine. A new selective reagent for zirconium. Gh.
 Baiulescu and L. Turcu (Univ. I. C. Parhon, Bucharest,
 Romania). *Anal. Chim. Acta* 21, 33-5 (1959) (in English).
 A method is proposed for Zr with tartrazine as the pptg.
 agent, filtering, drying and either igniting the ppt. to ZrO₂
 and weighing, or weighing the complex directly. A 2% soln.
 of tartrazine in H₂O is added dropwise to an acid soln. of
 Zr(IV) until pptn. is complete. The factor given for con-
 version of the complex is 0.82853. The reagent appears to
 be very selective. R. B. Bradstreet.

4
 AC²⁴
 298 (NB)

08
 1/1

n/c

COUNTRY : GDR E-2
CATEGORY : Analytical Chemistry--Analysis of Inorganic
Substances.
ABS. JOUR. : RZAHIM, No. 16 1959, No. 56870
AUTHOR : Baiulescu, C. and Ciurea, C. I.
INST. : Not given
TITLE : Contribution to the Study of Analytic Functional
Groups for Uranium (VI)
ORIG. PUB. : Z analyt Chem, 166, No 1, 5-10 (1959)
ABSTRACT : The authors have investigated color reactions of
 UO_2^{2+} with Na salts of the following acids: p-
aminosalicylic (I), p-nitrobenzeneazosalicylic
(Alizarin Yellow P) (II), m-nitrobenzeneazosalicyl-
ic (Alizarin Yellow GG) (III), and azodisalicylic
(IV). The latter reagent is synthesized by coup-
ling diazotized I with salicylic acid. UO_2^{2+}
gives orange yellow colors with I and II; with III
a yellow color is obtained, whereas with IV the
color is brown. I, II, and III can be used in

CARD: 1/4

COUNTRY :GDR E-2
CATEGORY :
ABS. JOUR. : RZKhim., No. 16 1959, No. 56870
AUTHOR :
INST. :
TITLE :
ORIG. PUB. :
ABSTRACT :the photometric determination of UO_2^{2+} ; the complexes formed by UO_2^{2+} with all three reagents absorb in the same region of the spectrum (436-496 $m\mu$). When I is used, the photometric determination is carried out at pH 5.5-6 and at 436-496 $m\mu$; when II and III are used, the determination is made at pH 5.2-7.5 and at 496-533 $m\mu$ (under selected conditions the absorption in the 436-496 $m\mu$ region is very strong [sic]). 34.5-414, 6.9-69, and 6.9-82.8 gammas/liter can

CARD: 2/4

COUNTRY	:	GDR	E-2
CATEGORY	:		
ABS. JOUR.	:	RZKhim., No. 16 1959, No.	56870.
AUTHOR	:		
INST.	:		
TITLE	:		
ORIG. PUB.	:		
ABSTRACT	:	be determined with I, II, and III, respectively. The reaction is carried out in aqueous ethanol; 2 ml of 1% aqueous I and 3 ml each of 0.1% aqueous II and III are added to a total volume of 10 ml of solution to be analyzed. Tables and graphs of the absorption are given together with the corresponding calibration curves. The group $-(X)C-(C)_n-C(Y)-$, where $X = OH, COH, =O$ (double bond outside the ring), and $Y = OH, SH$ ($N = 0$ or 1) is noted as a functional group for UO_2^{2+} .	
CARD:	:	3/4	

COUNTRY : GDR
CATEGORY :
ABS. JOUR. : RZKhim., No. 16 1959, No. 56870
AUTHOR :
INST. :
TITLE :
ORIG. PUB. :
ABSTRACT : The substitution of SH for OH leads to an increase
in the intensity of the color of the UC_2^+ com-
plexes.
V. Luk'yanov

CARD: 4/4

07

BAILULESCU, Gh.

Colorimetric determination of cerium(IV) in the presence
of iron(III) and lanthanum(III) with *o*-dianisidine. G.
Pope, D. Negoiu, and Gh. Bailulescu (Univ. C. I. Parhon,
Bucharest, Romania). *Z. anal. Chem.* 167, 329-31(1958).
—To up to 8 ml. of 20% H₂SO₄, contg. up to 100 γ Ce⁴⁺
add 2 ml. 0.05% alc. *o*-dianisidine, dil. to 10 ml. with 20%
H₂SO₄, and measure at 469 m μ . If Fe³⁺ is present, in-
clude 1 ml. concd. H₃PO₄. La³⁺, Pr³⁺, Nd³⁺, and
Er³⁺ do not interfere. K. G. ~~Swart~~

5

BAIULESCU, G.

1

* Study of the complexes formed by some flavones with gallium(III) and antimony(III). ~~B. G. Constantinescu~~
 P. Oteleanu, and G. Bănușescu, *Acad. Rep. Populare*
~~Revista~~ *Revista de Chimie* (Bucharest) **8**,
 87-100 (1967). - Complexes of gallium(III) with quercetin
 (II), 5-hydroxy-3,7,3',4'-tetramethoxyquercetin
 (III) and 3-hydroxy-5,7,3',4'-tetramethoxyquercetin (IV)
 were examined. Trivalent Ga³⁺ in weak HClAc solution formed
 yellow complexes with flavones having a free OH group in
 the position ortho or para with respect to the C=O group.
 The Ga complexes of the flavones were fluorescent and
 provided a sensitive test for distinguishing flavones from
 their 3-glycosides. In weak HClAc solution Sb³⁺ gave
 colored complexes only when the free OH group was in the
 3-position, i.e., with flavonols. With the exception of the
 Ga-IV compd., these complexes obeyed the Beer-Lambert
 law. I, II, III, and IV were very sensitive reagents for the
 detection of Ga³⁺, and II and IV for Sb³⁺. From *Anal.*
Abstr. **6**, Abstr. No. 488 (1959). K. L.

S/081/62/000/017/032/102
B162/B101AUTHORS: Popa, Gr., Negoiu, D., Balulescu, Gh., Lerch, R.

TITLE: Gravimetric determination of trivalent indium by means of quinaldic acid

PERIODICAL: Referativnyy zhurnal.. Khimiya, no. 17, 1962, 127, abstract 17D49 (An. Univ. "G.I. Parhon". Ser. Stiint. natur., v. 9, no. 26, 1960, 85-88 [Rum.; summaries in Rus. and Ger.])

TEXT: It is established, that quinaldic acid (I) precipitates quantitatively In^{3+} in the form of a white crystalline sediment of the composition $\text{In}(\text{C}_{10}\text{H}_6\text{O}_2\text{N})_2\text{OH}$, which is suitable for gravimetric determination of In. The sample analyzed (0.0011-0.0112 In) is dissolved in HNO_3 , the solution is evaporated to dryness, 2.5 ml HNO_3 is added to the residue, diluted with water to 250 ml and in an aliquot batch of the solution obtained, In^{3+} is precipitated at 80-100°C with an 1% aqueous solution of I after adding a small quantity of CH_3COONa . The precipitate is filtered off, washed with

Card 1/2

Gravimetric determination of...

S/081/62/000/017/032/102
B162/B101

warm water and dried at 110°C. The conversion factor is 0.2410. Error $\leq 1.5\%$. The method is also applicable to microdetection of In. Based on the investigation of the solubility of In and Zn quinaldates, it is concluded, that the change in H^+ concentration does not permit separation of these two elements by means of I. [Abstracter's note: Complete translation.]

Card 2/2

S/081/62/000/017/031/102
B162/B101

AUTHORS: Popa, Gr., Negoiu, D., Baiulescu, G.

TITLE: Photometric detection of trivalent gold by means of anthranilic acid

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1962, 125, abstract 17D39 (An. Univ. "C.I. Parhon". Ser. stiinț. natur., v. 9, no. 26, 1960, 99-102 [Rom.; summaries in Rus. and Ger.]

TEXT: Investigations are made of color reactions of Au^{3+} with anthranilic acid (I) and with two of its derivatives: dibromo anthranilic (II) and 4-nitroanthranilic acids (III). The best results are obtained by using I. II and III are less sensitive and the colored solutions obtained are insufficiently stable. The maximum light absorption of the Au^{3+} complex with I is found at 533 $m\mu$ (filter S_{53}), the optimum pH value is 3-4.5.

The Beer rule is valid at Au concentrations from 6.84 to 82.12 μ /ml. Addition of pyridine does not much affect the absorption. To determine Au, 2 ml of 1% ethanolic solution of I, containing 1% by volume pyridine,

Card 1/2

Photometric detection of trivalent...

S/081/62/000/017/031/102
B162/B101

is added to the solution analyzed which is then diluted by ethanol to 10 ml and photometrically measured, using the solution of the checking experiment as a reference solution. [Abstracter's note: Complete translation.]

Card 2/2

BAIULESCU, Gh.; KRIZA, A.

Gravimetric determination of Zr(IV) with Orange II. Studii cerc
chim 8 no.3:541-543 '60. (EEAI 10:9)

1. Laboratorul de chimie anorganica si analitica al Facultatii de
chimie, Universitatea "C. I. Parhon", Bucuresti.

(Zirconium) (Hydroxynaphthylazobenzenesulfonic acid
sodium salt)

POPA, Gr.; NEGOIU, D.; LUCA, C.; BAIULESCU, Gh.

Spectrophotometric study of the complex combination of Ga(III) with quercetin (i.e., quercetin). Rev chimie 6 no.1:87-94 '61.

1. Analytical Chemistry Laboratory, Section of Chemistry, "C. I. Parhon" University, Bucharest.

POPA, Gr.; PARALESCU, I.; BAIUDESCU, Gh.

Spectrophotometric studies on the complex Pd(II) with chromotrope 2R.
Studii cerc chim 9 no.1:85-92 '61. (EBAI 10:9)

1. Laboratorul de chimie analitica, Facultatea de chimie, Universi-
tatea "C. I. Parhon", Bucuresti.

(Spectrophotometry) (Palladium) (Chromotrope 2R)

POPA, Gr.; BAIULESCU, Gh.; CRUCERU, D.; LERCH, R.

Gravimetric determination of Zr (IV) with flavazine L. Studii
cerc chim 9 no.4:625-628 '61.

1. Universitatea "C.I.Parhon", Facultatea de chimie, Laboratorul
de chimie analitica, Bucuresti.

POPA, Gr.; BAIULESCU, Gh.; COSTACHE, D.

Gravimetric determination of zirconium (IV) with ponceau R. Studii
cer chim 10 no.1:113-116 '62.

1. Catedra de chimie analitica, Facultatea de chimie, Universitatea
din Bucuresti.

POPA, Gr.; BAIULESCU, Gh.; ILIESCU, V.

Gravimetric determination of Th (IV) with Orange II. Studii cerc
chim 10 no.3/4:367-370 '62.

1. Laboratorul de chimie analitica al Facultatii de chimie Universitatea
din Bucuresti.

POPA, Gr.; BAIULESCU, Gh.; BARBULESCU, N.; ILIE, V.A..

The Be (II) colorimetric determination. Studii cerc chim 11 no.2:
291-296 '63.

1. Catedra de chimie analitica a Facultatii de chimie a
Universitatii din Bucuresti.

POPA, Gr.; BAIULESGU, Gh.; MOLDOVEANU, S.

Amperometric determination of the Hf(IV) with tartrazine and flavazine L (free acid). Studii cerc chim 11 no.2:287-290 '63.

1. Catedra de chimie analitica a Facultatii de chimie a Universitatii din Bucuresti.

POPA, Gr.; BAIULESCU, Gh.; MOLDOVEANU, S.

Gravimetric analysis of Zr (IV) with p-nitrobenzol-
azosalicylic acid (PNBAS). Rev chimie 7 no. 1: 375-380
'62.

1. Lehrstuhl für analytische Chemie, Fakultät für Chemie,
Universität Bukarest.

POPA, Gr.; BAUL SCU, Gh.; STOICHITOIU, Lucia

Colorimetric determination of Pd (II) in the presence of Pt (IV).
Studii cerc chim 13 no.8/9:601-605 Ag-S '64.

1. Chair of Analytical Chemistry of the Faculty of Chemistry of the
University of Bucharest, 69 Splaiul Independentei.

L 38294-46 EWP(1) RM/DS

ACC NR: AP6029172

SOURCE CODE: RU/0003/66/017/002/0103/0103

AUTHOR: Popa, Gr.; Baiulescu, Gh.; Moldoveanu, S.

37
D

ORG: none

TITLE: Zirconyl hexahydroxoantimoniate - a new inorganic ion exchanger 1

SOURCE: Revista de chimie, v. 17, no. 2, 1966, 103

TOPIC TAGS: ion exchange, heat resistance, irradiation resistance

ABSTRACT: The authors describe a new inorganic ion exchanger with a marked stability in regard to high temperature and radioactive radiations. The exchange capacity of zirconyl hexahydroxoantimoniate was found to be 0.36 mval of Rb per gram and 0.3 mval of Cs per gram; the rubidium and cesium were eluted from the column by a hydrochloric acid solution at a pH of 2.5. Orig. art. has: 3 figures. [Based on authors' Eng. abst.] [JPRS: 36,556]

SUB CODE: 07 / SUBM DATE: none / OTH REF: 003

Card 1/1 SS

UDC: 661.183.12:546.856-33.831.4
1976 5470

Original 2005

✓ New biological method for determining posthypophyseal antidiuretic hormone Eörs Bajusz (Lab. Fachartztlich Inst., Budapest: *Folia Endocrinol* (Proc. 6, 1953) (in German). The technique is based on the fact that animals can be made sensitive to small amounts of repeated water administration by mouth. The hormone is administered intravenously, and its effect is revealed better by the increase of Cl⁻ concn. in urine than by diuresis decrease. Aints as low as 0.25 milligram hormone can be detcd.

1

MS

BAIYASNY, M.M.

Characteristics of brachial arterial pressure in hypertension and in various patients with hemiplegia; problem of regional hypertension. Sov. med. 20 no.3:37-41 Mr. '56 (MIRA 9:6)

1. Iz klinicheskogo otdeleniya nervnykh bolezney (zav.-prof. G.D. Leshchenko) Khar'kovskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach M.F. Shevchenko)

(HEMIPLEGIA, physiology,

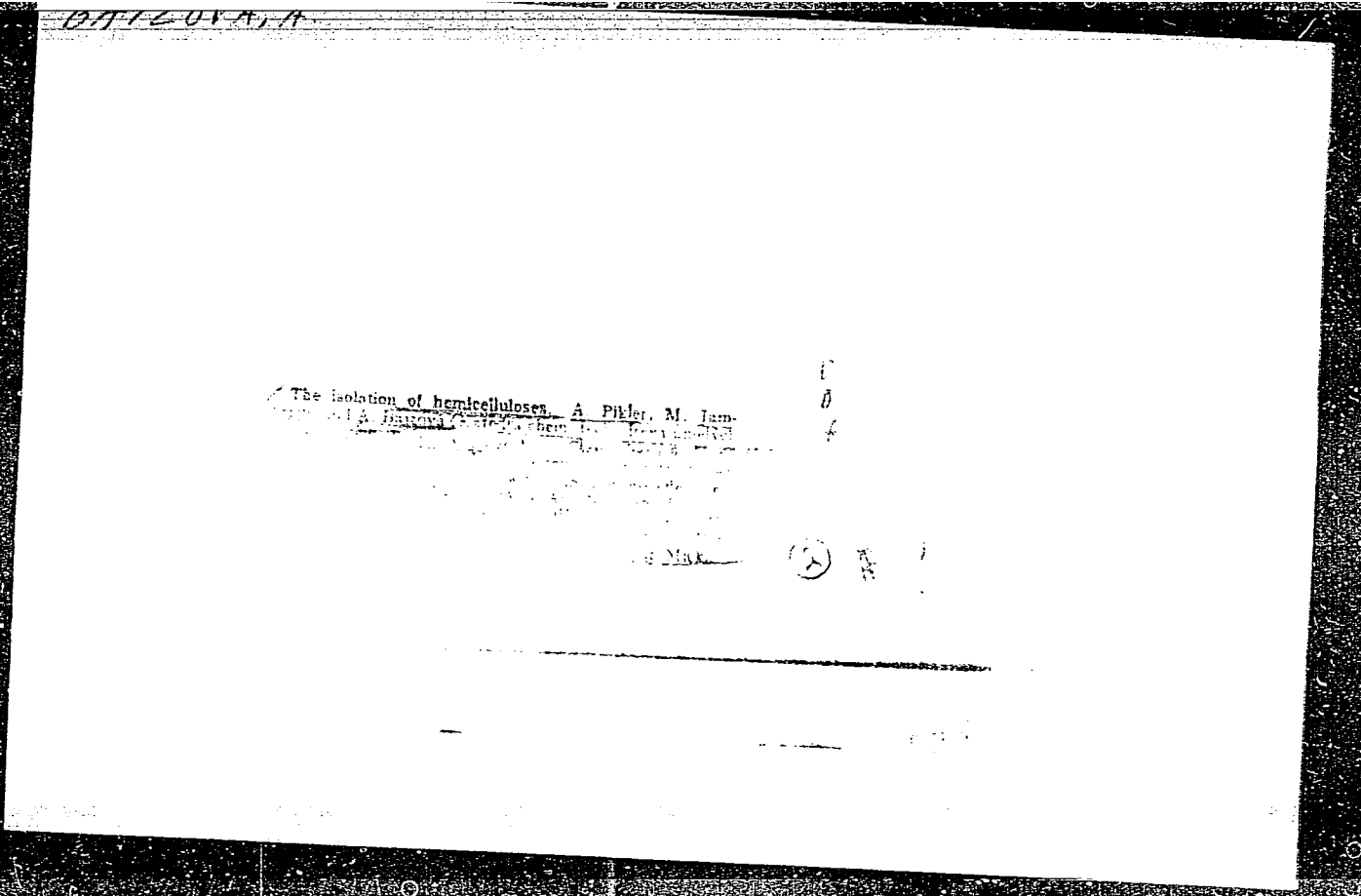
brachial arterial pressure in hypertension & hemiplegia (Rus))

(HYPERTENSION, physiology,

same)

(BLOOD PRESSURE,

brachial arterial in hemiplegia & hypertension (Rus))



BAJ, Kazimierz; JAGODZINSKI, Janusz; MIERZWINSKI, Tadeusz; NAIMAN, Aleksander

Physical exercise as a factor in the rehabilitation of patients with pulmonary tuberculosis. (Preliminary communication). Gruzlica 29 no.4: 373-380 Ap '61.

1. Z Sanatorium Rehabilitacyjnego im. H. Sawickiej w Otwocku Dyrektor doc. dr med. A. Nauman.

(TUBERCULOSIS PULMONARY rehabil)
(EXERCISE THERAPY)

SZYMEZYK, Wislawa; KOŁODZIEJSKA, Hanna; BAJ, Mieczysław

Interstitial radium therapy of labial cancer. Nowotwory 13
no.1:75-81 '63.

1. Z Instytutu Onkologii w Krakowie Dyrektor: doc. dr med.
H. Kołodziejska.

(LIP NEOPLASMS) (RADIUM)
(NEOPLASM RADIOTHERAPY)

8(6)

YUG/3-59-1-16/26

AUTHOR: Bajagić, Mirko, Engineer

TITLE: In Memoriam

PERIODICAL: Elektroprivreda, 1959, Nr 1, p 40 (YUG)

ABSTRACT: This is an obituary of Vladimir Kubal, mechanic and Director of the Termoelektrana (Thermal Power Plant) in Pljevlja. There is 1 photo.

Card 1/1

Country : HUNGARY

Category: Cultivated Plants. Fodders.

M

Abs Jour: RZhBiol., No 11, 1958, No 48994

Author : Bajai, Jenő

Inst : Sci. Res. Inst. of Agriculture, AS Hungary

Title : Data on Growing Common and Sweet Sudan Grass.

Orig Pub: Növénytermelés, 1956, 5, No 4, 349-354

Abstract: The Scientific Research Institute of Agriculture of the Academy of Sciences of Hungary (Martonvasar) discovered during 1955-1956 that the productivity of the common Sudan grass at mowing time before the appearance of awns was 10% less than the productivity of the sweet Sudan grass, and it was 15% less after the appearance of awns. In both varieties the yield was higher with mowing before the appearance

Card : 1/2

M-90

Country : HUNGARY
Category: Cultivated Plants. Fodders.

M

Abs Jour: RZhRiol., No 11, 1958, No 489ch

of awns than with mowing after the appearance of awns. With row method of sowing in narrow rows, the productivity of the aftermath with early mowing was 173.5% of the productivity of the first cutting, and with wide-row sowing its productivity was 221% of the first mowing. With mowing after the appearance of awns the productivity of the aftermath comprised respectively 46.6 and 62.7% of the productivity of the first mowing. For green feed, it is recommended that one mow before the appearance of awns and for ensilage - immediately after the appearance of awns.
I.K. Fortunatov

Card : 2/2

BAJAI, J.; BELAK, S.; MIHALYIL.

When should we reap rough fodder? p. 435
(Magyar Mezőgazdaság. Vol. 9, no. 4, 1957. Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, June 1957. Uncl.

HUNGARY/Cultivated Plants - Grains.

11-4

Abs Jour : Ref Zhur - Biol., No 9, 1958, 39194
Author : Bajai, J., Kukedi, E.
Inst : -
Title : Spring Care and Fertilization of Winter Wheat.
Orig Pub : Magyar mezogozd., 1957, 12, No 3, 8-9.
Abstract : No abstract.

Card 1/1

- 26 -

HUNGARY / Cultivated Plants. Fodder Crops.

M-5

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58635

Author : Bajai, Jeno

Inst : Not given

Title : Cultivation of Fodder Sorghum and Other Native Fodder
Crops (11)

Orig Pub : Magyar mezőgazd., 1957, 12, No 7, 12-13

Abstract : No abstract given

Card 1/1

HUNGARY/Cultivated Plants - Fodders.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82411

Author : Bajai, Jeno

List :

Title : Growing Fodder Sorgho and Other Native Fodder Crops
(III).

Orig Pub : Magyar mezogazd., 1957, 12, No 10, 14-15

Abstract : Detailed agrotechniques of growing sugar and grain
sorghum and also their utilization are set forth.

Card 1/1

BAJAI, J.

Growing and feeding experiments with sweet Sudan grass on the state farms in Tolna County (Fornad, Alsopel) in 1958. Acta agronom Hung 10 no.1/2:1-40 '60. (EEAI 9:12)

1. Sel'skokhozyaystvennyy issledovatel'skiy institut Akademii nauk Vengrii, Martonvashar.
(Sudan grass)

BAJAI, J.

The importance of sorghums grown for stock food in the forage
production of Hungary. Acta agronom Hung 10 no.3/4:345-408 '60.
(EEAI 10:6)

1. Agricultural Research Institute of the Hungarian Academy of
Sciences, Martonvasar,
(Hungary--Feeds) (Hungary--Sorghum)

BAJAKI, Laszlo, tudományos főmunkatárs

Expediency in the selection of automation installations.
Meres automat 11 no.11:331-335 '63.

1. Magyar Tudományos Akadémia Automatizálási Kutató Laboratóriuma.

BAJAKI, Laszlo, elektromernok

Switching operation of transistors. Meres automat 8 no.4:117-123 '60.

1. A Magyar Tudományos Akadémia Kutató Laboratorium tudományos munkatársa.

1. P. 31. 02
 ACCESSION NR: APM 1290
 HU-2541/64 (041.01) 11-11015
 AUTHOR: Tórnai, György; Tórnai, Tibor; (Budapest); Bajaki, László,
 (Bajaki, L. (Budapest))
 TITLE: Problems of the quantitative evaluation of emission spectrometry.
 SOURCE: Analytische chemische Nachrichten, 1974, Vol. 27, No. 1, p. 1-10.
 TOPIC TAGS: analysis; computer; emission; spectrometry; quantitative; apparatus

ABSTRACT: The principles, construction, operation, and application of the type spectrometer for element analysis, developed by the Research Company in Budapest, directed by Metropolitan, are described. Reliability of analysis is reported for the various elements.

SECRET

Card 1/2

1. *[Faint text]*
 2. *[Faint text]*
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 BY: *[Faint text]* DTIC: *[Faint text]* JPL: *[Faint text]*

Card 2/2

BAJALICA, D.

Yugoslavia (430)

Agriculture - Plant and Animal Industry

Five years of working peasant cooperatives.
p. 1. SOCIALISTICKA POLJOPRIVREDA, Vol. 2,
no. 2, February 1951.

East European Accessions List, Library of Congress,
Vol. 1, no. 14, Dec. 1952. UNCLASSIFIED

BAJALICA, D.

Yugoslavia (430)

Agriculture - Plant and Animal Industry

Some problems hindering further strengthening of
agricultural cooperatives. p. 1. SOCIALISTICKA
POLJOPRIVREDA, Vol. 2, no. 5, May 1951.

East European Accessions List, Library of Congress
Vol. 1, no. 14, Dec. 1952. UNCLASSIFIED

BAJALICA, D.

"Crediting of agricultural cooperatives," p. 36 (SOCIALISTICKA POLJOPRIVREDA, VOL. 4,
no. 2/3, Feb./Mar. 1953 Beograd, Yugoslavia)

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

BAJALOVIC, I

6000

V 1063. Coulometric Determination of quinol with iodine. I. Bjalovic and K. Nkolic (Inst. Phys. Chem., Belgrade, Yugoslavia). *Bull. Soc. Chim. Belgrade*, 1953, 20 (3), 329-333.—Quinol is determined coulometrically with electrolytically generated iodine. The iodine is liberated at a platinum anode immersed in a stirred 1 per cent. soln. of KI containing a phosphate buffer to maintain a pH of 8. The cathodic compartment, containing aq. KCl, is separated from the anolyte by an agar-KCl plug. Voltages of ≈ 3 V and currents of ≈ 10 mA are used.

A. B. DENSHAM

DM

BAJALOVIC, I. ; NIKOLIC, K.

BAJALOVIC, I. ; NIKOLIC, K. Colorimetric determination of hydroquinone with iodine. p. 329.

Vol. 20, no. 5, 1955
GLASNIK
Beograd, Yugoslavia

So: Eastern European Accession Vol. 5 No. 4 April 1956

BAJALOVIC, I.

1

3

✓ The equation of a nonlinear potential distribution in electrolytes during electrolysis. Ivan Bajalović (Inst. Phys. Chem. Beograd, Yugoslavia). *Glaznik Šumarskog Fak., Univ. Beogradu* 22, 423-30(1957)(in English).—Assuming that the establishment of an elec. field for reversible electrolytic systems is essentially the case of an ideal conductive system without polarization caused by the operating conditions, the equation of potential distribution becomes: $E_m = C + A \ln(l_1/l_2) + V_p$, where E_m is the potential at any point between the electrodes, l_1 and l_2 are the distances of the point from the electrodes, and V_p is a polarization term depending on the nature of the electrode system and the c.d. at the electrodes, but not on geometrical factors; A and C are consts. For a point at a distance x from the midpoint between the electrodes separated by the distance L , $E_m = C + A \ln(L + 2x)/(L - 2x)$ and $V_p = ax + c$, where a and c are consts., and by letting $x = 0$, $C = \text{e.m.f.}/2$. Since the potential gradient decreases as L increases and as the e.m.f. decreases, $A = B(\text{e.m.f.})$, so that $E_m = (\text{e.m.f.}) \{1/2 + B \log(l_1/l_2)\} + V_p$, enabling the polarization to be detd. by measuring potential at one point if the applied e.m.f. is known. The value of A was detd. by measuring potentials at various locations in a thin Ag layer on a glass mirror of 500 mm. diam., with a Ag wire probing electrode, the cathode being considered at zero potential. An e.m.f. of 1243 mv. was applied through electrodes attached at diametrically opposite locations. At the midpoint, $A = 100.2$, $B = 0.1578$. A was also detd. in 0.01M AgNO_3 soln. between unpolarized electrodes with a Ag wire probe along a line across which an e.m.f. of 1095 mv. was applied. Thirteen detns. yielded an av. value of $A = 175.4$.

Thomas A. Wilson

BAJALOVIC, Ivan; PAJEVIC, Milan

Distribution of potentials in galvanic-cell electrolytes. Gl.hem.dr.
23/24 no.1/2:7-10 '58/59. (HEAI 9:5)

1. Faculty of Pharmacy, Institute for Physical Chemistry, Beograd.
(Electrolytes) (Electric batteries) (Electric potential)

EXCERPTA MEDICA Sec.17 Vol.4/4 Public Health, etc. Apr 58

BAJAN, A

1098. AN EPIDEMIC OF GASTROENTERITIS CAUSED BY SALMONELLA
BRANDENBURG - Infekčné ochorenia v priebehu detskej tuberkulózy -
Bajan A. and Thurzová M. Detského Tbc Odd. DFN, Bratislava -
LEK. OBZOR 1957, 6/1(48-52) Tables 3

The epidemic (55 cases) was caused by smoked mackerel. The first signs appeared 4-18 hr. after the meal. A child aged 20 months suffered a double intestinal perforation (sigmoid colon and coecum) followed by peritonitis and death. Another child (6 yr.) also died after a long illness from adrenal insufficiency. The infection may have come from the fish (caught in coastal waters) or from the ice in which they were packed. An important feature was the long period of illness and the occurrence of relapses as long as 6-8 weeks after the first attack.

Prochazka - Prague (L, 7, 17)

~~Country: Czechoslovakia~~
~~Source: Bratislava, Given Names~~

Country: Czechoslovakia

Academic Degrees:

Affiliation: Chair of Pathobiology (Patologicka katedra) of the SUDL [Slovensky ustav pre doskolovanie lekarov; Slovak Institute for Postgraduate Medical Training] in Podunajske Biskupice. Chief: K. VIRSIK, MD.

Source: Bratislava, Lekarsky Obzor, No 5, 61, pp 289-293

Date: "The Present State and Problems of Tuberculin Tests"

BAJAN, A.; SCHWARTZ, E.

CSSR

Phtisiological dept. of the Slovak Institute for Graduate Medicine (Fisiologicka katedra Slovenskeho ustavu pre doskolovanie lekarov), Podunajske Biskupcie; director: K. Virsik, MD

Bratislava, Bratislavske Lekarske Listy, No 5, 1963, pp 276-281

"The Importance of the Haemagglutination and Haemolysis Reaction of Middlebrook-Dubos for the Diagnosis of Infantile Tuberculosis"

(2)

BAJAN, A.

SYKORA, F.

CZECHOSLOVAKIA

No academic degree indicated.

Regional Hospital for Tuberculosis (Krajiska nemocnica tuberkulozy),
Podunajske Biskupice; Director: Dr. K. VIRSIK
Institute of Tuberculosis (Ustav tuberkulozy), Bratislava;
Director: Dr. J. MARKOVIC

Prague, Rozhledy v tuberkuloze a v nemocich plicnich, No 9, Oct 62,
pp 639-647

*Complex Study on the Incidence of Tuberculosis of the Cervical
Lymph Nodes in Children. (With Special Regard to Disease Caused
by Mycobacterium Bovis).

Co-authors:

CERVENKA, J., no degree indicated; the same affiliation as above.

BAJAN, A., no degree indicated; the same affiliation as above.

BAJAN, A; SÝKORA, F; NEVICKÁ, E. (2)

Czechoslovakia

Phthiseological Chair of SUDL and the Kraj
Tuberculosis Hospital -- Podunajski Biskupici
(Ftizeologicki katedra SUDL a nemocnice tuber-
kulózy v Podunajských Biskupiciach); Director:
K. VIRSIK, MD. - (for all)

Bratislava

-Prague, Lekársky Obzor, No 11, 1962, pp 623-625

"Chemoprophylaxis of Tuberculosis."

20

UZBUNOSLOVAKA

BAJAN, A; POZDECHOVA, E; SCHWARTZ, E.

Phthisiological Chair of SUDL (Ftizeologicka katedra SUDL),
Pod. Biskupici (for all)

Prague, Rozhledy v tuberkulose, No 10, 1963, pp 691-696

"The Value of Some Laboratory Investigations Used in the
Diagnosis of Childhood Tuberculosis."

BAJAN, A.; SCHWARTZ, E.

Importance of the Middlebrook-Dubos hemagglutination and hemolysis reaction in the diagnosis of tuberculosis in childhood. Bratisl. lek. listy 43 Pt. 1 no.5:276-281 '63.

1. Ftizeologicka katedra Slovenskeho ustavu pre doskolovanie lekarov v Podunajskych Biskupiciach, veduci MUDr. K. Virsik.
(TUBERCULOSIS IN CHILDHOOD) (BCG VACCINATION)
(TUBERCULOSIS, PULMONARY) (HEMAGGLUTINATION)
(HEMOLYSIS) (DIAGNOSIS, DIFFERENTIAL)
(CHILD) (INFANT)

VIRSIK, K.; ~~BAJAN, A.~~; LIBIK, D.; LITOMERICKY, S.; VAGAC, M.;
KOKOLEVSKA, A.

Results of tuberculin screening tests in pregnant women.
Bratisl. lek. listy 43 Pt. 2 no.6:313-317 '63.

1. Ftizeologicka katedra SUDL v Pod. Biskupiciach, riaditel
MUDr. K. Virsik.

(TUBERCULIN REACTION) (TUBERCULOSIS)
(PREGNANCY COMPL, INFECTIOUS)

MAAR, D.; SCHWARTZ, E.; BAJAN, A.

Experiences with the Middlebrook-Dubos reaction in the diagnosis of osteoarticular tuberculosis. Bratisl. lek. list. 43 Pt. 2 no.6:343-346 '63.

1. Krajska nemocnica tuberkulozy a chorob plucnych v Pod.
Biskupiciach, riaditel MUDr. K. Virsik.
(TUBERCULOSIS, OSTEOARTICULAR) (HEMAGGLUTINATION)
(MYCOBACTERIUM TUBERCULOSIS) (DIAGNOSIS, DIFFERENTIAL)

BAJAN, A.; SYKORA, F.

The role of *Mycobacterium bovis* in extrapulmonary child tuberculosis in West Slovakia. *Cesk. epidem.* 14 no. 2: 73-80 Mr '65

1. Podunajske Biskupice; Krajska nemocnica tuberkulozy a chorob plucnych; Ftizeologicka katedra Ustavu pre dalsie vzdelavanie lekarov a farmaceutov, Podunajske Biskupice.

VAGAC, M.; BAJAN, A.; SCHWARTZ, E.; LITOMERICKY, S.; POLASKOVA, O.

On the immunobiological problems of sarcoidosis. Bratisl. lek. listy 45 no.3:129-134 15 Ag '65.

1. Katedra ftizeologie Ustavu pre dalsie vzdelavanie lekarov a farmaceutov v Bratislave-Podunajskych Biskupiciach (veduci doc. MUDr. K. Virsik) Krajska nemocnica tuberkulozy a chorob plucnych v Bratislave-Podunajskych Biskupiciach (riaditel doc. MUDr. K. Virsik).

DORNETZHUBER, V.; VAGAC, M.; DOBROTA, S.; BAJAN, A.; STOJANOVA, E.

Morphogenesis of the Kveim-Nickerson skin reaction in sarcoidosis.
Bratisl. lek. listy 45 no.3:135-143 15 Ag '65.

1. Ustav tuberkulozy v Bratislave (riaditel MUDr. J. Markovic)
Katedra ftizeologie Ustavu pre dalsie vzdelavanie lekarov a
farmaceutov v Bratislave-Podunajskych Biskupiciach (veduci doc.
MUDr. K. Virsik) a Krajska nemocnica tuberkulozy a chorob
plucnych v Bratislave-Podunajskych Biskupiciach (riaditel doc.
MUDr. K. Virsik), Oddelenie hrudnej chirurgie (veduci MUDr.
S. Dobrota).

KOCHMAN, J., prof. dr; BAJAN, G.

Observations on overwintering perithecia of apple powder mildew
Podosphaera leucotricha (Ell. et Ev.) Salm. Acta agrobot 12:
5-12 '62.

1. Pracownia Fitopatologiczna, Zaklad Ekologii, Polska Akademia
Nauk, Warszawa, Kierownik: prof. dr J. Kochman.

23277

Dinitrates of N,N'-dipropyldiacridine and...

P/012/60/006/000/001/001
A221/A126R = CH₃-CH₂-CH₂-, or CH₂-CH-CH₂-

The synthesis of acridone (I) and its potassium salt (II) were prepared exactly as described by A. Chrzyszczowska (Ref. 1: A. Chrzyszczowska, A. Braun, M. Nowaczyk - Soc. Sci. Lodz Acta Chim. 3, 93, 1950). This potassium salt was treated with propyl iodate and as a result the N-propylacridone (III) was obtained in the form of yellow crystals, melting at 129 - 130°C. The compound III was then reduced by means of zinc dust in alcoholic solution of HCl and the N,N'-dipropyldiacridine (IV) was obtained and recrystallized from the cyclohexanone; it did not melt when heated to 300°C. This compound, in turn, was brought to boil with 2n HNO₃ - and the dinitrate of N,N'-dipropyldiacridine was obtained crystallizing in the form of yellow scale. It is easily soluble in water, and when treated with hydrogen peroxide it showed blueish-green chemiluminescence. In the course of the second product synthesis, the acridone potassium salt was treated with allylbromide and N-allylacridone was obtained. This compound is easily soluble in alcohol, benzene and acetone and shows strong blue fluorescence; recrystallized from diluted alcohol it melts at 136 - 137°C. This product, reduced in the same way as described above, yields the N,N'-diallyldiacridine, melting at 253 -

Card 2/6

23277

Dinitrates of N,N'-dipropyldiacridine and...

P/012/60/006/000/001/001
A221/A126

254°C (with decomposition). Brought to boil with 3n HNO₃, the dinitrate of N,N'-dipropyldiacridine in the form of yellow needles was obtained. This compound is easily soluble in water and, treated with alkaline hydrogen peroxide, shows blueish-green chemiluminescence. Neither of these compounds (I, II, III, IV, and V) were described yet in chemical literature. Larger quantities of these lucigenine compounds necessary for further investigations were obtained by A. Braun and A. Witkowski. Identity of products and their purity was confirmed through elemental analysis and physico-chemical investigations made by J. Kroh (Ref. 7: Soc. Sci. Lodz, Acta Chim. 5, 1960). Experimental part: N-propylacridone - In a three-necked 200 ml flask, fitted with reflux-cooler, thermometer and mechanical stirrer, 20 g of acridone potassium salt and 40 g (0.23M) of n-propyl iodate were placed. The reaction was carried out for five hours at 125°C under vigorous stirring. After completion KJ sediment was filtered out and from the filtrate the N-propylacridine was precipitated by means of water. After recrystallization from water-alcohol 2:1 solution, the product was obtained in the form of long needles, melting at 129 - 130°C. Results of two elemental analyses for C, H and N were in fairly close agreement with theoretical figures, calculated

Card 3/6

23277

P/012/60/006/000/001/001
A221/A126

Dinitrates of N,N'-dipropyldiacridine and...

for the compound $C_{16}H_{15}NO$. N,N'-dipropyldiacridine - In a 200 ml round flask 4.3 g (0.017 M) N-propylacridone, 17.2 g zinc dust and 129 ml 2n HCl dissolved in alcohol were placed and the flask was heated for one hour on a water bath. Green sediment which had formed was filtered out and recrystallized from cyclohexanone. The yield was 1.4 g of product, which did not melt when heated to $300^{\circ}C$. Results of two elemental analyses of this product for C, H and N, were in fairly close agreement with theoretical figures calculated for the compound $C_{32}H_{30}N_2$. Dinitrate of N,N'-dipropyldiacridine - In a 50 ml beaker the mixture of 1 g of N,N'-dipropyldiacridine was brought to boil with 20 ml of 2n HNO_3 and was filtered. From the filtrate 0.34 g of the dinitrate of N,N'-dipropyldiacridine was obtained in the form of yellow scales. This compound is soluble in water and, treated with caustic soda and hydrogenperoxide, shows blueish-green chemiluminescence. Results of two elemental analyses of this product for C, H and N were in fairly close agreement with theoretical figures, calculated for the compound $C_{32}H_{30}N_4O_6$. N-allylacridone - In a three-necked, 200 ml flask, fitted with reflux cooler, thermometer and stirrer, a mixture of 25 g (0.1 m) of acridone potassium salt and 80 g (0.66 m) of allyl bromide were warmed up on a water

Card 4/5

23277

Dinitrates of N,N'-dipropyldiacridine and...

P/012/60/006/000/001/001
A221/A126

bath. The reaction took two hours at 90°C under vigorous stirring. During this process KBr settled on the flask wall and was subsequently filtered out. From the filtrate the N-allylacridone was precipitated by means of water and was recrystallized from water-alcohol 2:1 solution. The product was yellow and melted at 136 - 137°C. The result of two elemental analyses of this product for C, H and N were in fair agreement with theoretical figures calculated for the compound $C_{16}H_{13}ON$. The double link was confirmed by a conventional method. N,N'-diallyldiacridine - In a 200 ml flask fitted with reflux cooler the mixture of 4.7 g of N-allylacridone, 18.8 g of zinc dust and 141 ml of HCl dissolved in alcohol was heated on a water bath for 1 hour at 60°C. The pale-green sediment which resulted was filtered out and was treated in a beaker with 50 ml of hot cyclohexanone. The N,N'-diallylacridine was dissolved and filtered from zinc dust. From the filtrate it crystallized into fine crystals melting at 251 - 252°C (with decomposition). Results of two elemental analyses of this product for C, H and N, were in a fair agreement with theoretical figures calculated for the compound $C_{32}H_{26}N_2$. Dinitrate of N,N'-diallyldiacridine - In a 50 ml beaker the mixture of 1.5 g of N,N'-diallyldiacridine and 30 ml of 3n HNO_3 was brought to boil. From the cold solution the dinitrate of N,N'-diallyldiacridine crystallized into

Card 5/6

23277

Dinitrates of N,N'-dipropyldiacridine and...

P/012/60/006/000/001/001
A221/A126

small yellow needles. The yield was 0.7 g. Again the results of two elemental analyses of this product for C, H, N and O were in a fair agreement with theoretical figures, calculated for the compound $C_{32}H_{26}N_4O_6$. There are 7 Soviet-bloc references. X

ASSOCIATION: Zakład Chemii Organicznej Uniwersytetu Łódzkiego (Łódź University, Organic Chemistry Department) in Łódź

PRESENTED: December 12, 1959

Card 6/6

RAJAN, I

54. Mechanical features of the twelve-channel carrier cable equipment - I. Rajan. *Major Hiroshi*

Michima - Vol. 5, 1959, No. 12, pp. 261-262. (5 figs.) EE

The construction and the components of the universal transmission equipment now being developed are dealt with. The arrangement of the components on the framework enables the mounting of 12 channel equipments. Illustrations of the arrangement of the coil frame and of a new tap switch are published. Since the faults and noises in the equipment are usually due to the bad contact of the contacts, these have been eliminated by the introduction of a new tap switch with pressure metal contacts. The paper also deals with the measures against the use of fan-made thin, varnished, false metal wires in the equipment, and with the high-frequency cables and resistances. The method of testing is also illustrated.

EE

BAJAN, Tibor

New methods for constructing transmission equipment. Hir techn
16 no.3:83-86 Mr '65.

1. Reloiannisz Telecommunication Engineering Factory, Budapest.

BAJANE, J.; NEDELKU, E.

"Calculations and records of the output in coal mining."

TEKNIKA., Tirane, Albania., Vol. 5, No. 6, Nov./Dec. 1958

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

BAJANESCU, T.I., ing.

A new trend in the construction of analogue computers. Automatica
electronica 8 no.3:126-131 My-Je*64

BAJARSKI, Wlodzimierz, okleweles mernok; FILIPOWICZ, Jerzy, okleweles
mernok; ROSADA, Janusz, mernok

Choice of energy carriers in city economy. Energia es atom 16
no.2:49-59 F '63.

BAJAY, Jenó, dr.

In commemoration of Kalman Kerpely on the 100th anniversary of his birth. Elovilag 10 no.1:36-37 '65.

BAJER, M.

The coal industry in the United States. Przegl gorn 18
no.5:299-303 My '62.

BAJER, M.

Main technical indicators characterizing the operation of the nationalized French mines under the management of "Charbonnages de France" in 1960. Przegl gorn 18 no.6:371-374 Je '62.

WALSZTEIN, Z., inż. gornik; HAN, F., inż. gorn.; BAJER, Michal, mgr., inż.

Abutment support in the collieries of the Karaganda Coal Basin.
Przełgł gorn 17 no.11:588-594 N '61.

1. Redaktor Wydawnictwa "Przełgł Gorniczy" (for Bajer).

OTASEK, Frantisek, dr., inz.; BAJER, Miroslav, dr.

Sealing off fire areas in the mines of Ostrava-Karvina coal basin.
Uhli 4 no.8:269-271 Ag '62.

1. Vedeckovyzkumny uhelny ustav, Radvanice (for Otasek).
2. Vysoka skola banska, Ostrava (for Bajer).

BAJARI, E.

Revision of the Hungarian Cerceris fauna (Hymenoptera, Sphecidae.)
(Magyar Nemzeti Múzeum Terméztudományi Múzeum Évkönyve, Vol. 7, 1956,
Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 9, Sept. 1957. Uncl.

HUNGARY / General and Special Zoology. Insects. System-atics and Faunistics. P

Abs Jour: Ref Zhur-Biol., No 14, 1958, 63953.

Author : Bajari, N.

Inst : Not given.

Title : A Catalog of the Genus *Carceris* Latr. (Catalog of Hymenoptera VIII).

Orig Pub: Rovart. kozl., 1956, 9, No 1-12, 79-88.

Abstract: Revising Hungarian data on the genus *Carceris* of about 3000 specimens, the author includes in the list 25 species, one subspecies and one variety. Two species are new for Hungary, one is new for science. Data on the collection sites are given.

Card 1/1

25

BAJARI, N.

A revision of the Ichneumonidae types by Kiss an Szepliget I. Hymenoptera.
In German. p. 235.

Orszagos Magyar Termeszetudomanyi Muzeum. MAGYAR NEMZETO MUZEUM TERMESZET-
TUDOMANYI MUZEUM EVKONYVE. ANNALES HISTORICO-NATURALES MUSEI NATIONALIS HUNGARICI.
Budapest, Hungary. vol. 9, 1958.

Monthly List of East European Accessions (EEAI) LC, vol. 9, no. 2, Feb. 1960
Uncl.

1. INTRODUCTION

Various types of reactors are being developed in the USSR. One of the main types is the HELENA reactor. This reactor was designed for the purpose of studying the physical processes in a reactor core. It is a spherical reactor with a diameter of 1.5 m. The core is made of highly enriched uranium metal. The reactor is designed to operate at a power level of 100 W. The main purpose of the reactor is to study the physical processes in a reactor core. The reactor is also used for the study of the effects of assembly dimensions on the accuracy of buckling determinations. The reactors are also to be used in the cooperative NPY Project. Orig. art. has: 11 figures.

ASSOCIATION: Institute of Nuclear Research, Warszawa-Swierk

1 00000000

ACCESSION NO: AD-00000000

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO REF SOV: 000

OTHER: 010

BAJC, Oton, sef dr.

Surgery of the bile ducts. Zdrav. vest., Ljubljana 23 no.9-10:
198-202 1954.

1. Kirurgicni oddelek Splosne bolnice v Novem mestu.
(BILE DUCTS, surg.)
(BILE DUCTS, radiography
cholangiography, preoperative

BAJC, O.

Surgery of the veins. Acta chir.iugosl. 7(8) no.3:173-184 '60.

1. Kirursko odjeljenje Splosne bolnice u Novom Mestu (Predstojnik
rpim. dr. Oton Bajc)
(VEINS surg)

BAJC, Oton

On thyroid surgery. Zdrav. vestn. 33 no.1:3-7 '64

1. Kirurški oddelek splosne bolnisanice v Novem Mestu (Predstojnik:
prim. dr. Oton Bajc).

BAJCAR, R.

"Some notes on Mira variables." p. 52. "Photographic irradiation." P. 55.
(RISE HVEZD, Vol. 34, no. 3, 1953, Praha.)

SO: Monthly List of East European Accessions, Vol. 2, #10, Library of Congress
October 1953, Uncl.

BAJCAR, R.

"Light curves of long-period variables." (p.171). RISE HVEZD. (Ceskoslovenska spolecnost astronomicka) Praha. Vol. 34, No. 8, Nov. 1953.

SO: East European Accessions List, Vol. 3, No. 8, Aug 1954.

CZECHOSLOVAKIA/Optics - Optical Technology.

K

Abs Jour : Ref Zhur Fizika, No 12, 1959, 28371

Author : Bajcar, Robert

Inst :

Title : Remarks on Astrophotometric Properties of Photographic Lenses

Orig Pub : Rise hvezd, 1959, 40, No 2, 31-35

Abstract : An experimental investigation was made of the change of the aperture ratio over the field in photographic objectives of the Tessar and Belar type with focal distance of 500 mm, relative aperture 1:4.5, and a frame size 18 x 24 cm. The curve of the distribution of the light intensity over the field was obtained by processing 17 negatives with photographs of stars in the north polar row. The density of the images of the star were measured with a microphotometer. It is concluded that a Tessar type objective is more

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CZECHOSLOVAKIA/Optics - Optical Technology -

K

Abs Jour : Ref Zhur Fizika, No 12, 1959, 28371

suitable for astrophotometric work, since its light intensity diminishes more slowly with distance from the optical axis. -- Ye. Yakhontov

Card 2/2

BAJCAROVA, I.; ANTAL, M.

"A photometric study of NGC 3587."

p. 72, (Prace. Contributions, Vol. 2, 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9,
September 1958

BAJCETIG, B.

Mountain pasture farming in lower Hercegovina. Bul so Youg 9
no.3:80-81 Je '64.

1. Agricultural Faculty, University of Sarajevo, Sarajevo.

BAJCSAY, P

76. A new method of applying hypermatrices in the theory of multiphase systems. (In English) P. Bajcsay, V. Lovass-Nagy. *Acta Technica Academiae Scientiarum Hungaricae*, Vol. 21, 1958, No. 3-4, pp. 363-386, 2 figs. 2

It is known that with the aid of the matrix calculus clear relations for the determination of the stationary voltages and current intensities of monophasic systems composed of quadripoles may be derived from the four-terminal theory. D. W. C. Shen established the matrix formulae describing the stationary phenomena of single-phase uniform transmission lines by means of these relations. In an earlier study the authors elaborated a general application of D. W. C. Shen's results to multiphase uniform transmission lines. Using the method of hypermatrices, the present paper investigates the stationary voltage and current intensities of multiphase systems composed of cyclically symmetrical, cascade-connected different $2(m+1)$ -poles with given voltage at the points of supply and given current intensities at the points of consumption; the paper also analyzes the stationary and transient voltages and current intensities of multiphase systems composed of cyclically symmetrical, cascade-connected, identically built $2(m+1)$ -poles, likewise with given voltages at the points of supply and given current-intensities at the points of consumption. The relations thus obtained may — at the same time — be regarded as approximate formulae for the determination of cyclically symmetrical multiphase uniform transmission systems with given voltages at the points of supply and given current intensities at the points of consumption.

BAJGSAY, P. (Budapest, XI., Sztoczek, u 2-4)

The use of matrix calculation in the solution of a simple, linear differential equation system with variable coefficient. Periodica polytechn electr 3 no.3:217-231 '59. (EEAI 10:1)

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(Differential equations)

An Interpolation Process for the Approximate Solution of Matrix-Differentiable
Equations 10

7390:

Bajcsay, P.; und Lovass-Nagy, V. Ein Iterationsverfahren zur näherungsweise Lösung von Matrizendifferentialgleichungen. Z. Angew. Math. Mech. 39 (1959), 8-13. (English, French and Russian summaries)

A method is proposed for solving the system of differential equations $(d/dt)y=Ky$, $y(0)=y_0$ ($y(t)$, y_0 column vectors of dimension n and K a constant matrix) without transforming K to canonical form. K is decomposed into a sum $A+B$ with the matrix A having a known canonical representation (e.g., A a diagonal matrix), and the following iteration is set up: $(d/dt)y_1=Ay_1$, $(d/dt)y_m=Ay_m+By_{m-1}$ ($m=2, 3, \dots$), $y_m(0)=y_0$ ($m \geq 1$). An explicit expression

$$y_m(t) = \sum_{v=1}^n \beta_{mv}(t) \exp(\lambda_v t) u_v$$

is obtained, where λ_v are the eigenvalues of A , u_v corresponding eigenvectors, and $\beta_{mv}(t)$ scalar functions (too lengthy to be quoted here) formed with the help of the matrix B and the right and left-hand eigenvectors of A . An analogous method is stated for inhomogeneous systems, and convergence is proved as $m \rightarrow \infty$.

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