

WITEKOWA, Stanisława; WITEK, Tadeusz; PARYJCZAK, Tadeusz

Coagulating effect of ultrasonic vibration. I. The effect of ultrasonics upon the coagulation of hemicellulose in waste after cellulose alkali. Przem chem 41 no.4:195-197 Ap '62.

1. Zakład Chemii Ogólnej, Politechnika, Łódź.

WITEKOWA, STANISLAWA

Witekowa, Stanislaw. Chemia analityczna analiza jakosciowa.  
Wyd. 3 popr. i rozsz. Lodz, 1949. (Analytic chemistry and  
qualitative analysis; a textbook for students of polytechnics.  
Vol. 1)

SO: Monthly list of East European Accessions, LC, Vol. 3, No. 1, Jan. 1954, Uncl.

CA WITEKOWA, S. 7

Technique of semimicro analysis. Stanisława Witekowa  
(Higher Polytech. School, Łódź, Poland). *Wiedomski*  
*Chem.* 4, 174-89(1950).—A review. Adam Sporzyński

A-1  
4

WITEKOWA, S.  
BC

Solubility of arsenious oxide in aqueous solutions of electrolytes. R. Josefowicz, E. Witekowa, and W. Zaluska (Roczn. Chem., 1960, 34, 64-75).—The solubility of  $As_2O_3$  is investigated in aq. solutions of halides, nitrates, and sulphates of  $NH_4$  and of alkali and alkaline-earth metals. The plot of  $\log$  solubility of  $As_2O_3$  against concn. of added electrolyte is not linear as it should be if the theory of Debye and Hückel were valid in this case. The experimental data may be expressed by an empirical formula  $\log S = \log S_0 + a\sqrt{c} - bc^2$ , where  $S$  is the solubility of  $As_2O_3$  in pure solvent,  $c$  concn. of electrolyte,  $S_0$  the solubility of  $As_2O_3$  in pure solvent. Values of  $a$  and  $b$  for different salts are given. In the case of nitrates and sulphates the empirical formula  $\log S = \log S_0 + a\sqrt{c} - bc^2$ , where  $a$  or  $b < 2$ , may be applied only up to the concn. 0.2-0.8M. The simplifying assumptions of Debye and Hückel are no longer valid for more complicated ions. The deforming effect of the electrolyte ions on the mol. of the non-ionic solute and the solvent is more pronounced in this case because of their dipolar structure.

S. M. RYBICKA.

WITEKOWA, STANISLAWA

Witekowa, Stanisława. Chemia analityczna, analiza jakościowa z uwzględnieniem analizy semimikro. Wyd. 4. popr. i rozsz. (W Łodzi) Państwowe Zakłady Wydawn Szkolnych, 1951, (Analytic chemistry, qualitative analysis; a textbook for higher schools. Pts. 2-3)

SO: Monthly list of East European Accessions, LC, Vol. 3, No. 1, Jan. 1954, Uncl.

ca WITBKOWA, S.  
1951

Kinetics of the reaction between arsenous acid and iodine on the interface water-organic solvent. Stanisława Witbkowa (Polytech. Inst., Łódź). *Rozprawy Chem.* 75, 3-34 (1951) (English summary).—The effect of variation of a series of parameters (addn. of  $\text{H}_2\text{I}$ ,  $\text{H}_2\text{AsO}_3$ , or neutral light metallic salts, increase of concn. of  $\text{As}_2\text{O}_3$ , temp., rate of agitation, viscosity of solvent, surface tension) and the effect of diffusion and adsorption on reaction velocity, which is autocatalytic, were observed. Sylvia Nowinska

WITEKOWA, S.; WITEK, T.

WITEKOWA, S.; WITEK, T. Optical testing of complex compounds in solutions.  
p. 151.

Vol. 9, no. 3, Mar. 1955  
WIADOMOSCI CHEMICZNE  
SCIENCE  
Poland

So: East European Accession, Vol. 6, No. 5, May 1957

WITEKOWA, S. ; WITEK, T.

S. WITEKOWA, "On optical investigations of complex compounds in solutions."  
No. 3, March 1955, pp. 129-284, Chemical News (Poland).



WITEKOWA, S.

POLAND / Inorganic Chemistry: Complex Compounds. C

Abs Jour: Ref Zhur-Khimiya, 1958, No 2, 67077

Author : Witekowa S.

Inst : Not given.

Title : Spectrophotometrical Investigation of the Complexes of Molybdic Acid and Cyanides. I. Complexes with Ferrocyanides.

Orig Pub: Zesz. nauk. Polytechn. lodzkiej, 1957, No 18, 23-37.

Abstract: Interaction of  $(\text{NH}_4)_2\text{MoO}_4$  and of  $\text{K}_4[\text{Fe}(\text{CN})_6]$ ,  $\text{K}_4[\text{Fe}(\text{CN})_5\text{NO}_2]$ ,  $\text{K}_3[\text{Fe}(\text{CN})_5\text{NH}_3]$ , and  $\text{K}_3[\text{Fe}(\text{CN})_5\text{H}_2\text{O}]$  in acid media was investigated. It was established that in all the cases formation of complexes (1:1) is independent of pH.  $\text{H}_2\text{WO}_4$  does not react with the above indicated complex cyanides. Molal coefficient of absorption and  $\mu$  (max) of the complex cyanide compounds with  $\text{H}_2\text{MoO}_4$  were determined.

Card 1/1

POLAND/Optics - Spectroscopy

K-7

Abs Jour : Rof Zhur - Fizika, No 12, 1958, No 28703

Author : Witekowa Staislawa  
Inst : Polytechnic Institute, Lodz, Poland  
Title : Spectrophotometric Investigation of Compounds of Molybdenic Acid with Complex Cyanides.

Orig Pub : Chemia, 1957, 6, No 18, 23-36

Abstract : An investigation was made of the ultraviolet spectra of absorption of complexes of molybdenic acid  $K_4 [Mo (CN)_6]$ ,  $K_4 [Mo (CN)_5 O_2]$ ,  $K_3 [Mo (CN)_5 NH_3]$ ,  $K_3 [Mo (CN)_5 H_2 O]$ , and also the dependence of the optical density on the concentration of the complex and on the pH of the medium. It is shown that as the dipole moment of the investigated complex increases, the molar absorption coefficient also increases.

Card : 1/1

POLAND / Physical Chemistry. Kinetics. Combustion. Explosions. Topochemistry. Catalysis. B

Abs Jour: Ref Zhur-Khimiya, No 17, 1958, 56759.

Author : ~~Witekowa Stanislaw.~~

Inst : Not given.

Title : Kinetics of the Reaction Between an Iodine Solution and Gaseous Sulfur Dioxide on the Phase Boundary, Liquid-Gas.

Orig Pub: Roczn. chem., 1957, 31, No 2, 395 -412.

Abstract: The reaction kinetics of iodine, in a solution with gaseous SO<sub>2</sub> on the phase boundary was investigated. The first reaction determined by the equation  $SO_2 + I_2 + 2H_2O = H_2SO_4 + 2HI$  (1), were examined. The effect of various factors on the reaction (1) was studied. It was determined that the order of the investigated

Card 1/3

POLAND / Physical Chemistry. Kinetics. Combustion.  
Explosions. Topochemistry. Catalysis.

B

Abs Jour: Ref Zhur-Khimiya, No 17, 1958, 56759.

Abstract: reaction  $\sim 0.5$ , proceeds to its end faster than the lower initial concentration of  $I_2$ . The variation of the reaction rate constant with the temperature is insignificant. The increase of the liquid phase mixing rate accelerates the process. The lower the viscosity of the solvent, the higher the rate of reaction. Solutions of  $I_2$  in ethyl, methyl and isopropyl alcohols with various aqua contents, as well as in pure water were investigated. The rate of reaction drops with the decrease of the boundary surface. The addition of light metal salts accelerates the investigated conversion. Studies were carried out in 0.5 MKI,

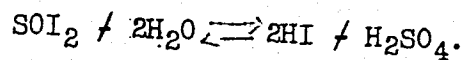
Card 2/3

17

POLAND / Physical Chemistry. Kinetics. Combustion. Explosions. Typochemistry. Catalysis. B

Abs Jour: Ref Zhur-Khimiya, No 17, 1958, 56759.

Abstract: KBr, KCl and NaCl. The addition of HI accelerates, and the addition of  $H_2SO_4$  decelerates the investigated conversion within the limits of determined concentrations. The rate of reaction increases proportionally to the first stage pressure of the gaseous  $SO_2$ . It is assumed that the iodine takes part in the reaction in its atomic form, forming a "critical complex"  $SO_2I$ . The probable reaction mechanism:  $I_2 \rightleftharpoons 2I$ ;  
 $I + SO_2 \rightleftharpoons SO_2I$ ;  $SO_2I + I_2 \rightleftharpoons SO_2I_2$ ;



Card 3/3

POLAND / Physical Chemistry. Kinetics. Combustion. Explosions. Topochemistry. Catalysis. B

Abs Jour: Ref Zhur-Khimiya, No 17, 1958, 56760.

Author : Witekowa Stanislawa, Witek Tadeusz.  
Inst : Not given.  
Title : Kinetics of Reaction Between Hydrogen-Iodide and Sulfur Dioxide on the Phase Boundary, Liquid-Gas.

Orig Pub: Roczn. chem., 1957, 31, No 2, 437 - 447.

Abstract: The kinetics of reaction on the phase boundary between an HI solution and a gaseous SO<sub>2</sub> was investigated according to the equation  $HI + SO_2 \rightleftharpoons HI \cdot SO_2$  (1). The complex HI·SO<sub>2</sub> is yellow. Its concentration has been determined by the spectrophotometric method. At a

Card 1/2

18

POLAND / Physical Chemistry. Kinetics. Combustion. Explosions. Topochemistry. Catalysis. B

Abs Jour: Ref Zhur-Khimiya, No 17, 1958, 56760.

Abstract: pressure of  $\sim 760$  millimeters of the mercury column and a temperature of  $0^{\circ} - 35^{\circ}\text{C}$  the direct as well as the inverse reactions are of the first order. The equilibrium constant  $K$  equals 0.319. The rate of reaction increases insignificantly with the rise of the temperature.  $K$  does not depend on the pressure of  $\text{SO}_2$ ; however, the higher the pressure of  $\text{SO}_2$ , the more quickly is equilibrium established. The reaction (1) is exothermic; the complex  $\text{HI}\cdot\text{SO}_2$  decomposes completely with the rising of the temperature.

Card 2/2

WITEKOWIT, STANISLAW

Distr:  $Li_2SO_4(J)$  7

Complex compounds of sulfur dioxide with hydrogen chloride, hydrogen bromide, and hydrogen iodide. Stanisława Witkowska, Tadeusz Paryczak, and Tadeusz Witk (Politech. Łódź, Poland). *Zeszyt Nauk. Politech. Łódź*. No. 22, Chem. No. 7, 17-34(1958)(English summary).— Aq. solns. contg.  $SO_2$  and HCl, HBr, or HI were investigated. Specific cond. at 0 and 25°, and pH at 25° were detd. for solns. prepd. by mixing 0-50 ml. of 0.17-0.83M solns.; light absorption was measured at 272 m $\mu$  and various concns., and within 200-480 m $\mu$  for acid: $SO_2$  1:1 molar ratio. The existence of complexes  $SO_2 \cdot HCl$ ,  $SO_2 \cdot HBr$ , and  $SO_2 \cdot HI$ , was confirmed (C.A. 53, 850d). Absorption max. were at 272, 282, and 400 m $\mu$ , resp.

2 May

J. Stecki



COUNTRY : POLAND  
CATEGORY : Inorganic Chemistry. Complex Compounds  
ABS. JOUR. : RZhKhim., No 17, 1959, No. 60263  
AUTHOR : Witekowa, Stanisława  
INSTITUTE :  
TITLE : Spectrophotometric Study of the Molibdic Acid Compounds With Complex Cyanides. II. Complex\*  
ORIG. PUB. : Zesz. nauk. Politechn. lodzkiej, 1958, No 22, 35-45

ABSTRACT : It was demonstrated with the aid of the spectrophotometric method, that in the reaction of  $(\text{NH}_4)_2\text{MoO}_4$  (I) with  $\text{K}_4[\text{Mo}(\text{CN})_8]$  (II) in acid medium, a reddish-brown complex (III) is being formed. In the above reaction the ratio of I : II = 1 : 1 and the  $\text{Mo}_6\text{O}_{12}^{6-}$  ion participates. Absorption spectra, (250 - 550 m $\mu$ ) of the solutions containing I +  $\text{K}_4[\text{Fe}(\text{CN})_6]$  and I + II in the ratio of 1 : 1, show 2 maxima: a more pronounced one occurring at 317 and 310 m $\mu$  and

\*with  $\text{K}_4[\text{Mo}(\text{CN})_8]$ .  
1/2

Card:

WITEKOWA, Stanisława

Spectrophotometric studies on compounds of molybdic acid  
and complex cyanides. IV. Roczniki chemii 36 no.3:377-388 '62.

1. Department of General Chemistry, Technical University, Lodz.

WITEKOWA, Stanisława

Chemical effects of ultrasonic waves. Pts.2-3. Roczniki chemii 36  
no.4:693-711 '62.

1. Zakład Chemii Ogólnej, Politechnika, Łódź.

WITEKOWA, Stanisława; WITEK, Tadeusz; PARYJCZAK, Tadeusz

Coagulating effect of ultrasonic vibration. I. The effect of ultrasonics upon the coagulation of hemicellulose in waste after cellulose alkali. Przem chem 41 no.4:195-197 Ap '62.

1. Zakład Chemii Ogólnej, Politechnika, Łódź.

S/058/63/000/002/022/070  
A062/A101

AUTHOR: Witekowa, Stanisława

TITLE: Spectrophotometric investigation of compounds of molybdenum acid with cyanide complexes. Part IV

PERIODICAL: Referativnyy zhurnal, Fizika, no. 2, 1963, 31, abstract 2D183 ("Roczn. chem.", 1962, v. 36, no. 3. 377 - 388, Polish; summaries in Russian and English)

TEXT: The absorption spectra of solutions of complex compounds of molybdenum acid with complex cyanides of iron, molybdenum and tungsten were investigated in the region 250 - 550 m $\mu$  at pH 1 - 7. Spectral curves are given. It has been found that the spectra of the indicated compounds (except those containing tungsten) are similar and have two absorption maxima at 310 - 330 and 360 - 400 m $\mu$ . The structure of the formed complexes is discussed. There are 26 references. For part III see RZh Fiz, 1960, no. 9, 24900.

[Abstracter's note: Complete translation]

Card 1/1

WITEKOWA, Stanisława; LEWICKI, Andrzej

Kinetics of the reaction between iodine and sulfur dioxide at  
the liquid-liquid interface. *Rocz. chemii* 37 no.1:91-107 '63.

1. Zakład Chemii Ogólnej, Politechnika, Łódź.

SIEROCKA, Michalina; WITKIEWICZ, Alina

Studies on the characteristics of the cation exchanger MK-3.  
Przem chem 39 no.6:336-339 Je '60.

1. Katedra Chemii Fizycznej, Uniwersytet M. Kopernika, Torun

JAKIMOWSKA, Krystyna; WITKIEWICZ, Maria; VENULET, Jan

Pharmacology of p-nitrophenylguanylurea (T-72). Acta physiol.  
Pol. 15 no.5:701-712 S-0 '64

1. Z Zakladu Farmakologii Instytutu Lekow w Warszawie (Kie-  
rownik: doc. dr. J. Venulet).



WITKIEWICZ, R.

WITKIEWICZ, R. Aims in the field of planning for collective farms. p. 10.

Vol. 8, no. 5, May 1956  
BUDOWNICTWO WIEJSKIE  
AGRICULTURE  
Poland

So: East European Accession, Vol. 6, No. 5, May 1957

WITKIEWICZ, R.

Remarks on the plan for building an economic center. p. 9.  
(BUDOWNICTWO WIEJSKIE. Vol. 8, no. 9, Sept. 1956, Poland)

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

WITKIEWICZ-KOSZCZYC, J.

Witkiewicz-Koszczyc J., Prof.

Witkiewicz-Koszczyc J., Prof. "The Technique of the Preservation of Historic Architectural Structures" (Otechnice konserwacji zabytkow architektury). Architektura. No 9-10, 1949, pp 243-247, 17 figs.

The author writes about the problems and difficulties encountered by an architect-conservator in his work. Quite apart from normal problems of town-planning use, function, technics and art, he must undertake thorough and accurate surveys with special instruments. His study of the monument itself must be followed by research into material in the archives. He must also overcome difficulties which arise in organising the work through the fact that to each relic must be applied an individual preservation treatment, so that it may stand for centuries as a monument of national culture.

SO: Polish Technical Abstracts - no. 2, 1951

WITKIWSKI, J.; OLPINSKA-WARZECHOWA, K.

A list of scientific works of Prof. Wladyslaw Smosarski. Przegl geofiz 6  
no. 3: 213-216 '61.

WITKO, Jan (Bystrzyca Slaska); TUROWICZ, St., mgr. inz. (Krakow)

Two opinions on  $\text{CaCl}_2$  and  $\text{NaCl}$  chlorides. Przegl budowl  
i bud mieszk 33 no.11:693-694 N '61.

WITKOWICKI, Janusz

Calculation of valves for boiling liquids. Automatyka Gliwice  
no.3:77-84 '63.

1. Nitrogen Works, Tarnow.

S/194/62/000/007/082/160  
D295/D308

AUTHOR: Witkowicz, J.

TITLE: Biological effect and prophylaxis of microwave irradiation

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1962, abstract 7-5-24 f (Prace Przemysł. inst. telekomun., v. 11, no. 34, 1961, 47 - 55) ✓

TEXT: The electromagnetic energy of a microwave beam possessing considerable power density can produce changes in living organisms subjected to the action of this energy. The changes caused by microwave irradiation are in most cases reversible. The establishment of an exact correlation between irradiation dose and reaction of the organism is still at an experimental stage. The prophylaxis suggested is: to observe precautionary measures in operating micro-wave sources, to eliminate secondary sources radiating power scattered unintentionally, to shorten the working day, and to use absorbing screens or protective clothing. [Abstracter's note: Complete translation.]  
Card 1/1

WITKOWICZ, T., Korelski, J.

Draft commentary to Technical Standard No. D64. p. 373.  
(PRZEGLAD KOLEJOWY. Vol. 8, no. 10, Oct. 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.  
Uncl.



CA WITKOWSKA, A.

Catalytic decoloration of colored natural juices. A. Krause and A. Witkowska (Univ. Poznan, Poland). *Bull. Soc. Chim. Ind. Polon.* 111, 100-10 (1951) (in English).  
--The decoloration of red beet juice at 37° by H<sub>2</sub>O<sub>2</sub> in the presence of Fe(OH)<sub>3</sub> (I) and Cu compds. as catalysts was studied spectrophotometrically with  $\lambda = 520$  m $\mu$ . The rate of the reaction with I corresponded to a 1st-order reaction. The peroxidative properties of I were greatly activated by CuO when mixts. of air-dried I and CuO were used. The activation was still greater when the combined catalysts were pptd. together as hydrides and air-dried, as little as 10<sup>-10</sup> g. Cu as Cu(OH)<sub>2</sub> showing activity compared to about 10<sup>-6</sup> g. Cu as CuO. Moist gel catalysts were even more strongly active, since they had more surface.

In this case, 10<sup>-10</sup> g. Cu as Cu(OH)<sub>2</sub> contained in I (corresponding to 8 x 10<sup>-6</sup> g. Fe) accelerated the decoloration of the juice at 37°. The combined catalyst of a compn. corresponding to an at. ratio Fe:Cu 1:10<sup>-4</sup> caused the decoloration in 9 hrs., whereas I alone needed 9 hrs. 20 min. The mechanism of the reaction was discussed. R. G. Rice

WITKOWSKA, A.

POLAND / Physical Chemistry. Kinetics, Combustion,  
Explosions, Topochemistry, Catalysis.

B

Abs Jour: Ref Zhur-Khimiya, No 18; 1958; 60249.

Author : Alfons Krause, Anna Witkowska.

Inst : -

Title : Anomalous Behaviour of Some Catalysts in Oxidation-  
Reduction Systems.

Orig Pub: Roczn. chem., 1957, 31, No 2, 723-726.

Abstract: Two catalysts of the type  $Zn(OH)_2/Co^{2+}$  were prepared. Notwithstanding the difference in their composition (10 mg of  $Zn(OH)_2$  + 0.1 mg of  $Co^{2+}$  and 200 mg of  $Zn(OH)_2$  + 0.1 mg of  $Co^{2+}$ ), their

Card 1/2

POLAND / Physical Chemistry. Kinetics, Combustion,  
Explosions, Topochemistry, Catalysis.

B

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60249.

Abstract: catalytic activity is the same. The authors try to explain that phenomenon by the obstructing effect of  $\text{Co}^{2+}$  ions on the active places on the  $\text{Zn}(\text{OH})_2$  surface, which depends on the concentration of  $\text{Co}^{2+}$  ions.

Card 2/2

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POLAND / Laboratory Equipment. Instruments, Their  
Theory, Construction and Application.

F

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42222.

Author : Kranz, M.; Witkowska, A.

Inst : Not given.

Title : Production of Unstable Preparations Under Safe  
Conditions. Synthesis of Salts of Bivalent  
Chromium.

Orig Pub: Przem. chem., 1958, 37, No 7, 470-471.

Abstract: A reaction box (RB) of organic glass was constructed for the synthesis of unstable substances. The RB can be evacuated (down to a pressure of 10 mm. of the mercury column) and filled with various inert gases (up to a pressure of 2 atm.). Special protective gauntlets for the manipulation of instruments, vessels and substances are put inside the RB.

Card 1/2

F-5

ZIOLECKA, A.; ZOLKIEWSKI, A.; WITKOWSKA, A.

Determination of the intake and digestibility of green pasture forage based on experiments performed on wethers according to the indicator methods for  $\text{SiO}_2$  and  $\text{Cr}_2\text{O}_3$ , Rocznik nauki rolno-zootechn 84 no.1:189-192 '64.

1. Institute of Animal Physiology and Feeding of the Polish Academy of Sciences, Warsaw.

WITKOWSKA, ANNA

18

The influence of trace elements on the color and structure of yellow ferric hydroxides. <sup>1</sup> Alfons Krause, Maksymilian Kranz, and Anna Witkowska (Univ. Poznański, Poznań, Poland). *Przemysł Chemiczny*, 680-2 (1958) (English summary).—The authors describe a new method for the manuf. of yellow ferric hydroxides by the oxidation of Fe with air in FeSO<sub>4</sub> medium. The product has a better color and structure than the present Polish pigments, and is equal to the imported grades. The method is based on the initiation of oxidation of Fe with a trace amt. of H<sub>2</sub>O<sub>2</sub> soln. in the presence of trace amts. of ions of heavy metals such as As, Sb, Bi, Sn, Hg, or even such as Mg, Al, Ca, and Zn. Tech. FeSO<sub>4</sub> (or pickling liquor) and Fe shavings are used as raw material. It is believed that this method can be adopted for com. production. F. J. Hendst

6  
4E2c  
4E3d

WITKOWSKA, A. - KRANE, M.

The influence of cations and anions of direct dyes in determining the properties of yellow ferric oxides. p. 88

PRZEMYSŁ CHEMICZNY. (Ministerstwo Przemysłu Chemicznego i Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników Przemysłu Chemicznego) Warszawa, Poland. Vol. 38, no. 2, February, 1959

Monthly List of East European Accessions (EEAI) IC, Vol 8, no. 3,  
August, 1959 Uncl

KRANZ, Maksymilian; WITKOWSKA, Anna; KOZLOWSKI, Ryszard

Preliminary research on the stability of Cr SO<sub>4</sub> solutions.  
Prace matem przyrod Poznan 10 no.2:125-134 '62.

1. Katedra Chemii Stosowanej, Uniwersytet im. Adama  
Mickiewicza, Poznan.



JAKUBICZ, Barbara; WITKOWSKA, Berta

Geology and hydrogeology of the vicinity of Solec Kujawski.  
Kwartalnik geol 6 no.4:771-773 '62.

1. Zaklad Geologii Inzynierskiej, Instytut Geologiczny, Warszawa.

LAPINSKI, Adam; SWICOWA, Klementyna, A.; KRZYMOWSKA, Aleksandra;  
SUCINSKA, Danuta; WITKOWSKA, Barbara

Salmonella and Shigella in etiology and diarrhea in children  
in Gdansk region. Med dosw. mikrob. 8 no.3:299-306 1956.

1. Z. Wojewodzkiej Stacji Sanitarno-Epidem. w Gdansku i I Kliniki  
Chorob Dzieci AM w Gdansku.

(SALMONELLA INFECTIONS, in infant and child,  
causing diarrhea (Pol))

(SHIGELLA, infections,  
causing diarrhea in child. (Pol))

(DIARRHEA, in infant and child,  
caused by salmonella & Shigella infect. (Pol))

LAPINSKI, A.; SWICOWA, K.A.; GRABOWSKA, A.; KRZYMOWSKA, A.; KURDWANOWSKI, J. ;  
WITKOWSKA, B.

Serological reactions in diagnosis of *Salmonella typhimurium*  
infections in infants. Med. dosw. mikrob. 9 no.2:155-166 1957.

1. Z Woj. Stacji San.-Epid. w Gdansk Dyrektor: dr. J. Rychard  
i z Kliniki Choreb Dzieci A.M.G. Kierownik: prof. dr. H. Brokman.  
(SALMONELLA INFECTIONS, in inf. & child  
S. typhimurium infect., serol. reactions in diag. (Pol))

~~WITKOWSKI, BARBARA~~

LAPINSKI, Adah; WITKOWSKA, Barbara

Unusual types of Salmonella isolated in Gdansk Province in the years 1955 to 1956. Przegl. epidem., Warsz. 11 no.3:221-230 1957.

1. Z Wojewodzkiej Stacji Sanitarno-Epidemiologicznej w Gdansku.

(SALMONELLA

isolation of unusual strains (Pol))

MARKS-ZAKRZEWSKA, A.; LAPINSKI, A.; FILIPOWICZ, A.; GRABOWSKA, U.; RENKIEJSKA,  
H.; WITKOWSKA, B.

Significance of agglutination reactions in dysentery in children. *Pediat.  
polska* 34 no.2:145-152 Feb 59.

1. Z II Kliniki Chorob Dzieci A. M. w Gdansk Kierownik: doc. dr med.  
A. Marks-Zakrzewska i z Wojewodzkiej Stacji Sanitarno-Epidemiologicznej  
W Gdansk Dyrektor: dr med. A. Lapinski. Adres: Doc. dr med. Marks- Zak-  
rzewska, Warszawa, ul. Sienna 60.

(DYSENTERY, BACILLARY, in inf. & child,

fecal agglut. test (Pol))

(AGGLUTINATION,

Shigella agglut. test of feces in dysentery in child. (Pol))

BILLEWICZ, Irena: LAPINSKI, Adam: WITKOWSKA, Barbara

Diagnostic criteria in bacillary dysentery. Przegl.epidem. 14 no.3:  
313-319 '60.

1. Z Kliniki Chorob Zakaznych A.M. w Gdansk, Kierownik prof. dr  
W.Bincer i z Pracowni Mikrobiologii WSSE w Gdansk Kierownik:  
dr A.Lapinski

(DYSENTERY BACILLARY diag)

WITKOWSKA, Barbara; LESZCZYNSKA, Halina

Burning of hydrogen sulfide gases obtained from the desorption process of deposit waters. Przem chem 41 no.9:510-512 S '62.

1. Zakład Przerobu Siarki i Pochodnych, Centralne Laboratorium Siarki i Kopalni Chemicznych, Warszawa.

WITKOWSKA, Joanna, mgr; STEPNIAK, Henryk, inz.

Color and its application. Chemik 16 no.7/8:230-231 J1-Ag '63.



WITKOWSKA, L.

2

POLAND

GYZEWSKI, Kazimierz; OLESZKIEWICZ, Leopold; SKOBA, Kle-  
mens and WITKOWSKA, Lucyna; First Surgical Clinic (I Kli-  
nika Chirurgiczna), AN Akademia Medyczna -- Medical School  
in Wrocław; Director: Prof Dr Kazimierz GYZEWSKI.

"Hypotensive Duodenography in the Diagnosis of Subacute  
Pancreatitis"

Warsaw, Polaki Tygodnik Lekarski, Vol XVIII, No 6, 4 Feb  
1963, pp 207-210

Abstract: [Author's] English summary modified Hypotensive  
duodenography was introduced into the diagnosis of pancrea-  
tic diseases by the Lyon school 3 years ago. The techniques  
used by the authors are described. Hypotonia of the duode-  
num was obtained by antrotyl injection and introduction of  
20 cc 2% solution of xylocaine into the duodenum. 54 hypo-  
tensive duodenographies were performed, 23 of them in di-  
senses of the pancreas.

1/2

POLAND

Warsaw, Polski Tygodnik Lekarski, Vol XVIII, No 6, 4Feb  
1963, pp 207-210 (continued)

Three cases of chronic exacerbans pancreatitis are re-  
ported. Hypotensive duodenography revealed pathologic  
changes in the caput pancreatis. The results of X ray exa-  
mination were confirmed by laparotomy. 8 diagrams; 1 Polish  
and 2 French references.

b/2

CYZEWSKI, Kazimierz; OLESZKIEWICZ, Leopold; SKORA, Klemens,  
~~WITKOWSKA, D.~~

Hypotensive duodenography in the diagnosis of subacute  
pancreatitis. Pol. tyg. lek. 18 no.6:207-210 4 F '63.

1. Z I Kliniki Chirurgicznej AM we Wroclawiu; kierownik: prof.  
dr Kazimierz Czyzewski.

(PANCREATITIS) (RADIOGRAPHY)  
(DUODENUM)

BOGUSZEWSKA, Janina; WITKOWSKA, Maria

Fluorine content in potable water and dental caries among school children in the city of Bialystok. *Zdrow. publiczne* 7/8:259-263  
Jl-Ag '65.

1. Z Zakladu Higieny Ogolnej AM w Bialymatoku (Kierownik: doc. dr. med. B. Hoffmann).



WITKOWSKA, Stanislaw; FILASIEWICZ, Wieslaw

Spectrographic standards and quantitative determination of  
impurities in refined lead. Chemia anal 7 no.1:211-221 '62.

1. Institute of Nonferrous Metals, Gliwice.

WITKOWSKA, HANNA

SURNAME, Given Names

Country: Poland

Academic Degrees:

Affiliation: Presumed to apply to all authors: Children's Ward of the Wojewodztwo Hospital (Oddzial Dzieciacy Szpitala Wojewodzkiego), Zielona Gora; Director (Dyrektor): Dr Med Z Pieniezny; and Analytical Laboratory of the Wojewodztwo Specialist Dispensary (Laboratorium Analityczne, Wojewodzka Przychodnia Specjalistyczna), Zielona Gora; Director (Kierownik): Physician (Lek [Lekarz]) J Daszynski

Source: Krakow, Przeglad Lekarski, Vol XVII, Ser II, No 9, 1961, pp 334-337

Data: "The Effect of Hormonal Treatment on the Behavior of Some Biological Indices in Rheumatism in Children."

Authors:

KOPYSC, Zbyslaw	[Academic Degrees not given]
<u>WITKOWSKA, Hanna</u>	" " " "
KAZIMIERCZYK, Halina	" " " "
DASZYNSKI, Janusz, Physician (Lek /Lekarz/)	

GPO 981643

REICHER, Eleonora; WITKOWSKA, Jozefa; DUBROWSKA, Danuta

Spa therapy of patients with ankylosing spondylitis. Reumatologia  
Polska no.3:407-409 '60.

1. Z Instytutu Reumatologicznego w Warszawie Dyrektor: prof. dr med.  
E. Reicher

(SPONDYLITIS ANKYLOSING ther)  
(BALNEOLOGY)



PIENKOWSKA, Teresa; WITKOWSKA, Lucyna

Oesoms changes in liver cirrhosis. Polski tygod. lek. 15 no.23:  
870-874 6 Ję '60.

1. Z Kliniki Chorob Wewnętrznych A.M. we Wrocławiu; kier.: prof.  
dr Zofia Czyżewska  
(LIVER CIRRHOSIS pathol)  
(BONE ANDBONES pathol)

RUDNICKA, Jadwiga; WITKOWSKA, Lucyna

Arteriovenous fistulae in the lesser circulation in a case of Osler's disease. Polski tygod. lek. 16 no.11:398-401 13 Mr '61.

1. Z I Kliniki Chorob Wewnetrznych A.M. we Wroclawiu; kierownik prof. dr med. Z. Czezowska i z Kliniki Radiologicznej; kierownik doc. dr med. Z. Kubrakiewicz.

(FISTULA ARTERIOVENOUS compl) (ANGIOMATOSIS compl)  
(PULMONARY ARTERY dis) (PULMONARY VEINS dis)

WITKOWSKA, S.

Sources of vitamin C during the winter. *Pediat. polska* 26  
no. 4:454-465 Apr 1951. (CML 21:1)

1. Of the Institute for Mother and Child.

WITKOWSKA, S.

Spectrographic method of quantitative determination of germanium in zinc ores and in metallurgic intermediate products. p. 471.

CHEMIA ANALITYCZNA. (Komisja Analityczna Polskiej Akademii Nauk i Naczelna Organizacja Techniczna) Warszawa. Poland, Vol. 4, No. 1/2, 1959.

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

UNCL

HANC, I.; WITKOWSKA, S.; PRZEKAZINSKA, B.; GRODZKA, Z.

Effect of protein-rich and high-calory diets on the course of burn sickness in small children. *Pediat. pol.* 37 no.6:573-589 Je '62.

1. Z Kliniki Chirurgii Dzieciecej Kierownik: prof. dr. med. W. Poradowska z Pracowni Zywienia Kierownik: inz. S. Witkowska z Zakladu Biochemii Kierownik: prof. dr. med. G. Bagdasarian i z Pracowni Analitycznej Kierownik: dr med. A. Wolanska Instytutu Matki i Dziecka w Warszawie Dyrektor: prof. dr. med. B. Gorniki.

(BURNS in inf & child)

(PROTEINS nutrition & diets)

(INFANT NUTRITION)

S/081/62/000/010/042/085  
B168/B180AUTHORS: Witkowska, Stanisława, Filasiewicz, Wiesława

TITLE: A spectrographic method of determining indium in lead and slags

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 10, 1962, 139, abstract 10D68 (Rudy i metale niezel., v. 6, no. 7, 1961, 311-313)

TEXT: Lead electrodes are used as standards for the determination of indium in lead. They are made by adding specific amounts of indium (0.001-0.15%) to metallic lead of high purity and fusing. The standards and samples, measuring 10 mm in diameter, are excited in a spark (12,000 v) for 24 sec. The spectra are recorded by means of a medium-dispersion spectrograph on spectrum plates. The analytical line pair In 3256.090 - Pb 3240.192 Å is used. To analyze indium in slags a specimen (1 g) is dissolved in 10 ml  $\text{NH}_4\text{OH}$  (1:1), 3 ml 0.1% solution  $\text{Ga}(\text{NO}_3)_3$  (used as an internal standard) is added, and the mixture is

Card 1/2

A spectrographic method of determining ...

S/081/62/000/010/042/085  
B168/B180

evaporated to dryness at 100°C. The dry residue is ground and placed in the crater of a carbon electrode (diameter 2.5 mm, depth 3 mm). The upper electrode is a pointed carbon rod and the gap between it and the lower electrode is 3 mm. The sample is subjected to an a.c. arc (4.5 amps) for .5 sec. The spectra are recorded on special plates by means of a Q-2 spectrograph with a slit width of 0.010 mm. The lines in 3156.0 Å - Ca 2943.6 Å are used as reference pairs. The mean error is 4.2% for metallic lead, and 7.5% for slags. Time required for the analysis - 1.5-2 hrs. [Abstracter's note: Complete translation.]

Card 2/2

WITKOWSKA, Teodozja

Observations on the fauna and ecology of soil nematodes in various field cultures. Nauki matem przyrod Torun no.3:103-125 '58.

1. Zaklad Ochrony Przyrody i Ekologii, Uniwersytet im. M. Kopernika, Torun.



WITKOWSKI, Sławomir; WITKOWSKA, Zofia; FILIPOWICZOWA, Janina

A micromethod for the determination of blood pyruvic acid. Polski tygod. lek. 16 no.22:828-830 29 My '61.

1. Z Katedry Chemii Fizjologicznej A.M. w Łodzi; kierownik: prof. dr B. Filipowicz i z Katedry Chemii Ogólnej A.M. w Łodzi; kierownik: z-ca prof. mgr J. Skarzynski.

(PYRUVATES blood)

PONIZ, Wenczeslaw, prof. dr inz.; OSTAPIUK, Henryk, mgr inz.;  
WITKOWSKI, Albin, mgr inz.

Results of radiographic studies on welded bridge structures.  
Inz i bud 19 no.9:367-368 S '62.

1. Politechnika, Szczecin.

WODZICKI, T.; WITKOWSKA-ZUK, L.

Growth response of coleoptile sections of several Polish varieties of wheat to some growth regulators. Acta soc botan Pol 33 no.2:323-333 '64.

L. Department of Forest Botany, Central College of Agriculture, Warsaw.

WITKOWSKI, A.

SCIENCE

PERIODICAL: ROCZNIKI CHEMII. Vol. 31, No. 2, 1957

WITKOWSKI, A. General phenomenological theory of electrothermodiffusion in liquids. p. 637

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4  
April 1957, Unclass

WITKOWSKI, ANDRZEJ

Bogdan Baranowski and Andrzej Witkowski: "Electrochromodiffusion in Aqueous Solutions of  $\text{AgNO}_3$  and  $(\text{Ag}(\text{NH}_3)_2)$ ". "Roczniki Chemii, Vol 30, No 2, Warsaw, 1956. Published from the Chair of Theoretical Chemistry, Jagiellonian University, Krakow, 29 Sep 55.

POLAND/Physical Chemistry. Radiochemistry. Isotopes.

D-7

Abs Jour: Ref Zhur-Khin., No 13, 1958, 42468.

Author : Witkowski Andrzej

Inst :

Title : Theoretical Considerations on the Possibility of a  
New Method for Separating Mixtures and Isotopes.

Orig Pub: Acta phys. polon., 1957, 16, No 1-2, 79-91.

Abstract: See RZhKhin., 1957, 16, No 1-2, 79-91.

Card : 1/1

WITKOWSKI, ANDRZEJ

diffusion to handle / Address: Witekowski, Henry, Kenia

GOLEBIEWSKI, Alojzy; WITKOWSKI, Andrzej

Theory of resonance transfer of energy between organic molecules with double bonds. Roczniki chemii 33 no.6:1443-1453 '59. (EEAI 9:9)

1. Katedra Chemii Teoretycznej Uniwersytetu Jagiellońskiego, Kraków  
(Mesomerism) (Molecules) (Organic compounds)



WITKOWSKI, A.

Electronic spectra of dimers. I. Nature of the coupling. II. Perturbation solutions of the fundamental vibronic equation. III. Intensities. Bul Ac Pol mat 9 no.3:179-191 '61.

1. Department of Theoretical Chemistry, Jagiellonian University, Cracow. Presented by J. Weissenhoff.

(Polymers and polymerization) (Electronics)  
(Spectrum analysis)

44656

S/081/62/000/024/003/073  
B108/B186

5.4120

AUTHOR: Witkowski, Andrzej

TITLE: The nature of electron-nuclear coupling in dimers

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1962, 14-15, abstract  
24B68 (Roczn. chem., v. 35, no. 5, 1961, 1399 - 1408 [Eng.:  
summaries in Pol. and Russ.] ).

TEXT: A Hamiltonian is derived which describes the motion of the electrons and nuclei during resonance interaction of two identical molecules, one of which is in an excited electron state. This Hamiltonian contains terms rendering a strong electron-vibration interaction. This is because the pure electron resonance interaction is 'disturbed' when the nuclei undergo different displacements from the equilibrium position of the two molecules. The corresponding eigenfunctions cannot be approximately calculated in adiabatic approximation, so that the exact eigenvalues correspond to simultaneous electron and vibrational states. Conditions for separating the motions of the electrons and nuclei in special cases are discussed, as is the structure of the electron energy surfaces. A system of two ethylene molecules. Card 1/2

The nature of ...

S/081/62/000/024/003/073  
B108/B186

cules is considered by way of illustration.  
translation.]

[Abstracter's note: Complete

f

Card 2/2

S/081/62/000/021/002/069  
B168/B101

AUTHOR: Witkowski, Andrzej

TITLE: Strong and weak coupling solutions of electron-vibration equation for dimers

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1962, 6-7, abstract 21B13 (Roczn. chem., v. 35, no. 5, 1961, 1409-1418 [Eng.; summaries in Pol. and Russ.] )

TEXT: The author examines approximation methods of solving the electron-vibration equation that describes the vibrational functions of the non-adiabatic wave function of the electron excited state of a dimer under the resonance interaction of monomer segments. The hamiltonian of the electron-vibration system has the form  $\frac{1}{2}(p^2 + q^2) + bq\sigma_3 + C\sigma_1$ , where  $q$  is the vibration coordinate of the relative movement of the monomer units,  $p$  the corresponding momentum,  $\sigma_1$  and  $\sigma_3$  the Pauli matrices, and  $C$  the constant of resonance interaction. If the resonance interaction is strong the term  $bq\sigma_3$  can be regarded as a perturbation in relation to the zeroth

Card 1/2

Strong and weak coupling solutions ...

S/081/62/000/021/002/069  
B168/B101

approximation corresponding to the harmonic vibration of the dimer in different electron states common to both monomer units. On the other hand, if interaction is weak, the electron excitation of a monomer can be transmitted to another monomer only through vibrations which disturb the conditions of resonance by fulfilling the condition  $bq \gg C$ . The approximate non-adiabatic wave functions were determined in these two extreme cases and the intensity distribution in the electron spectrum of the dimer was calculated. A molecule of 2,2,1-dicycloheptadiene was taken as a concrete example. [Abstracter's note: Complete translation.]

Card 2/2

KIRKOR, W.; WITKOWSKI, A.

N-bis-(2'-chloroethyl)-amide of 2,5-dinitrobenzoic acid and some of its properties. Acta chim 9:57-61 '64.

1. Department of General Chemistry of the Lodz University.  
Presented Nov. 1962.

WITKOWSKI, A.

On transitions involving crossing of potential energy surfaces.  
Bul Am Pol Mat 9 no.9:697-700 '61.

1. Department of Theoretical Chemistry, Jagellonian University,  
Krakow. Presented by J. Weyssenhof.

WITKOWSKI, Andrzej

Outlook of the prospecting for iron ore deposits in the area of the Szamotuly structure and remarks concerning prospecting for eolitic-detrital deposits. Kwartalnik geol 6 no.1:72-85 '62.

1. Zaklad Zloz Rud Zelaza, Instytut Geologiczny, Warszawa.



WITKOWSKI, Andrzej

Lower Cretaceous sedimentation of iron ore in the Tremzal  
1 borehole. Kwartalnik geol 6 no.4:631-644 '62.

1. Zaklad Zloz Rud Zelaza, Instytut Geologiczny, Warszawa.

KUTEK, Jan; WITKOWSKI, Andrzej

Kimeridgian and Bononian in the boreholes in Zarzecin. Kwartalnik  
geol 7 no.1:159-168 '63.

1. Zakład Geologii Dynamicznej, Uniwersytet, Warszawa, i Zakład  
Złoz Rud Żelaza, Instytut Geologiczny, Warszawa.

ACC NR: AP6035259

SOURCE CODE: PO/0045/66/030/003/0431/0436

AUTHOR: Witkowski, Andrzej

ORG: Department of Theoretical Chemistry, Jagellonian University, Cracow  
(Katedra Chemii Teoretycznej Uniwersytetu Jagellonskiego)

TITLE: Vibronic coupling in molecular crystals

SOURCE: Acta physica polonica, v. 30, no. 3, 1966, 431-436

TOPIC TAGS: molecular crystal, coupling, exciton coupling, molecular phonon,  
Hamiltonian, boson, exciton separation, exciton, *phonon*

ABSTRACT: The coupling of excitons with molecular phonons results from a change of molecular potential energy in the excited molecular electronic state. The exciton-phonon Hamiltonian, when written in the second quantization language, contains terms which are linear in the phonon variables. Separation of excitons (treated as bosons) from the phonon variables by a suitable unitary transformation leads to an exciton-exciton interaction term. Some possible

Card 1/2

ACC NR: AP6035259

consequences of this new interaction type are outlined. The author expresses his gratitude to Dr. K. Zalewski for a valuable discussion. Orig. art. has: 35 formulas. [Based on author's abstract] [KS]

SUB CODE: 20/SUBM DATE: 07Apr66/ORIG REF: 001/SOV REF: 002/  
OTH REF: 016/

Card 2/2

PONIZ, Wenczeslaw, prof. dr inz.; WITKOWSKI, Albin, mgr inz.

Welded road bridge over the Sludwia River after 34 years service  
in the light of radiographic tests. Inz 1 bud 19 no.10:373-375  
0 '62.

WITKOWSKI, A.

A few words about investigating accidents. p. 331. Ochrona Pracy. Warszawa.

Source: Monthly list of East European Accessions (EEAL), Lc, Vol. 5, no. 2,  
Feb. 1956

POLAND/Chemical Technology. Chemical Products and Their Application. H-30  
Lacquers. Paints. Coatings.

Abs Jour: Ref Zhur-Khin., No 2, 1959, 6651.

Author : Bacia, K.; Lawniczak, M.; Witkowski, B.

Inst :

Title : Concerning the Possibility of Altering the Natural Color  
of Wood for the Needs of the Furniture and Other Branches  
of Industry.

Orig Pub: Przem. drzewny, 1956, 7, No 1, 27-30.

Abstract: The purpose of tinting and imitation is the substitu-  
tion of valuable kinds of wood (for example, walnut,  
etc.) with widely abundant wood (alder, birch, poplar,  
beech, pine, etc.) and, besides, also the simplifica-  
tion and reduction of costs of the technological pro-  
cess. General information concerning the structure

Card : 1/2

143

POLAND/Chemical Technology. Chemical Products and Their  
Application. Lacquers. Paints. Coatings.

H-30

Abs Jour: Ref Zhur-Khin., No 2, 1959, 6651.

of wood, dyes (natural and synthetic), solvents,  
diluent, methods of superficial wood coloring  
(staining) from 0.05 to 1 mm in depth and to a greater  
depth (treatment with mordants, under pressure, or in  
vacuo), and the effects of the action of heat and water  
is presented. - Ye. Gurvich.

Card : 2/2



BATSYA, Kazimir [Bacia, K.]; ~~VITKOVSKIY~~, Bronislav [Witkowski, B.];  
VITKOVSKIY, Irzhi [Witkowski, I.]; SHAKHNAROVICH, M.A. [translator];  
BUGLAY, B.M., red.; AZAROVA, V.G., red.izd-va; LOBANKOVA, R.Ye.,  
tekhn.red.

[Manual for upholsterers] Rukovodstvo.dlia oboishchikov  
miagkoi mebeli. Moskva, Goslesbumizdat, 1961. 181 p. (MIRA 14:6)  
Abridged translation from the Polish.  
(Upholstery)

WITKOWSKI, Boguslaw J., mgr inz.

Engineering in the hands of madmen. Horyz techn 17 no.10:8-12  
0 '64

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

H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37826

Author : Witkowski, C.

Inst :

Title : Quantitative Determination of Arsenic in Food Products.

Orig Pub : Przem. Spozywczy, 1957, 11, No 8, 346

Abstract : Described is an analytical method for As determination by precipitation with  $H_2S$  and in the form of  $Mg_2As_2O_7$ .

As has been previously transferred into a 5-valent state by the oxidation with  $HNO_3$ .

Card 1/1

CZARNOWSKI, Adam; WITKOWSKI, Edward (Gdansk)

Observations on the biology of *Trichomonas bovis*. *Wiadomości  
parazyt.*, Warsz. 2 no.5 Suppl:193 1956..

1. Wojewodzki Zakład Higieny Weterynaryjnej.  
(TRICHOMONAS,  
bovis, biol. (Pol))

MALECKI, Zdzislaw, dr inz.; WITKOWSKI, Edward, mgr inz.

Prospects for oxygen intensification of gasification processes  
in metallurgic gas generators. Gosp paliw 11 no.6:208-213  
Je '63.

1. Katedra Maszyn Hutniczych, Akademia Gorniczo-Hutnicza,  
Krakow.

WITKOWSKI, H.

Studies on *Eupatorium cannabinum*. II. Isolation of triterpene taraxasterol ( $\alpha$ -lactucerosol). Jadwiga Grzybowska, Zofia Jerzmanowska, and Henryk Witkowski. *Roczniki Chem.* 28, 197-212 (1954) (English summary); cf. *C.I.* 43, 2948h. —  $\alpha$ -Lactucerosol is obtained bound with palmitic acid from petr. ether extn. of the dried flower, followed by alk. hydrolysis of the residue. A method of obtaining the alc. in 0.8% yield on the wt. of the dried flowers is described. III. Chemical analysis of roots and stems with leaves. Jadwiga Grzybowska and Zofia Jerzmanowska. *Ibid.* 313-31. — A chem. analysis of the roots, stems, and leaves is given. The petr. ether exts. of the roots gave, besides euparin, m. 152-3°,  $\alpha$ -eupaterol acetate (0.01%), which on hydrolysis gives  $\beta$ -eupaterol, m. 136-7°. The residue from the alc. ext. on alk. hydrolysis gave a probable phytosterol,  $\beta$ -eupaterol, m. 169-63°, and the acetate of  $C_{27}H_{46}O$  or  $C_{27}H_{44}O$ , m. 129-31° (0.002%). Palmitic acid was isolated and the presence of oleic and linolenic acids is established. The petr. ether ext. of the stems and leaves gives  $\alpha$ -lactucerosol, m. 218-21° (0.09%). Flavonol glucoside which hydrolyzed to quercetin, glyucose, and rhamnose was found. Rutin, m. 187-82°, was found in the stems only (0.4%). Chester Flack.

②

WITKOWSKI, Henryk

Henryk Witkowski: "Filter Paper with Cation Exchanges." Roczniki Chemii, Vol 30, No 2, Warsaw, 1956. Published from the Chair of General Chemistry, Poznan University, 10 Dec 54.

WITKOWSKI, H.

Technical planning of the consumption of materials. p.376.

MECHANIK. (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskich)  
Warszawa, Poland. Vol.28, no.10, Oct. 1955.

Monthly list of East European Accession. (EEAI) LC, Vol.9, no.1, Jan.1960

Uncl.



WITKOWSKI, H.

POLAND/Chemical Technology. Chemical Products and Their Applications. Cellulose and Cellulose Products. Paper.

K-5

Abs Jour: Ref Zhur-Khimiya, 1958, No 1, 3296.

Author: Witkowski H.

Inst :

Title : Filter Paper with Ion Exchangers

Orig Pub: Roczn. chem., 1956, 30, No 2, 549-557

Abstract: A method of preparing and the properties of the ion exchanger "ionit" are described. The feasibility of using such paper for the chromatographic quantitative determination of cations is presented. The error in the determination did not exceed 4% in 100  $\mu$ grams tests. Examples of alkaline earth metal and alkali metal determination as well as water hardness determination are given.

Card : 1/1

WITKOWSKI, H

4 May

7

Paper cation exchanger. IV. Determination of sodium oxide and potassium oxide and calcium oxide and magnesium oxide in technical glass. Henryk Witkowski (Univ. in A. Mickiewicza, Poznań, Poland). *Chem. Abstr.* 3: 1049-52 (1958) [English summary]. — A simple method for detg. CaO + MgO and Na<sub>2</sub>O + K<sub>2</sub>O in tech. glass by means of paper (C.A. 51, 13835i) is described. Place about 100 mg. powd. glass in a Pt crucible or a small evap. dish; add a few drops of distd. water and a few ml. 40% HF. Heat under cover for 10 min. Mix and evap. to dryness, wet the residue with 2-4 drops 2N HCl, and heat for 1-2 min. Remove fluorides by the method described by Alimariu (C.A. 44, 3404d). Treat the residue with a few ml. 2N AcOH and evap. almost to dryness, dil. with water, and mix and allow the soln. to stand to coagulate Fe(OH)<sub>3</sub> and Al(OH)<sub>3</sub>. Take 0.1-1 ml. of sample for each detn. Use glass plates with 8 wells; fill 4 of these with 0.5 ml. of the substance examd. and the remaining ones with standard soln. in amts. of 0.4, 0.6, 0.8, and 1 ml., resp. Cover the wells with 8 strips of cationite L-W 28 paper. When the solns. are completely absorbed, wash the strips with 0.1 ml. distd. water and sprinkle with satd. soln. contg. quinalizarin. The zone contg. K-group elements will be light-violet, whereas that of the Ca-group elements will be deeply blue-violet. By comparing the surfaces of the zones with standards, the percentage of Na<sub>2</sub>O + K<sub>2</sub>O and CaO + MgO can be detd. Trivalent metals can be removed by pptn. with CO<sub>2</sub>-free NH<sub>3</sub>. Z. Kurtys

AB

prof

MICHALEWICZ, Jan; PACHMAN, Wiktor; WITKOWSKI, Henryk (przy współpracy pracowników działu higieny żywienia i żywności WSSE)

Nutrition in hospitals. Polski tygod. lek. 14 no.29:1357-1359  
20 July 59.

1. (Z Działu Higieny Żywienia i Żywności Woj. Stacji San.-Epid w Olsztynie: kierownik: mgr. H. Witkowski: dyrektor Woj. Stacji San.-Epid: dr. Wl. Kuzia.  
(HOSPITAL FOOD SERVICE)

WITKOWSKI, H.

Cationite paper. II. Application of cationite paper for alkaloid determination.  
p. 317.

CHEMIA ANALITYCZNA. (Komisja Analityczna Polskiej Akademii Nauk i Naczelna  
Organizacja Techniczna) Warszawa. Poland. Vol. 4, No.  $\frac{1}{2}$ , 1959.

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