

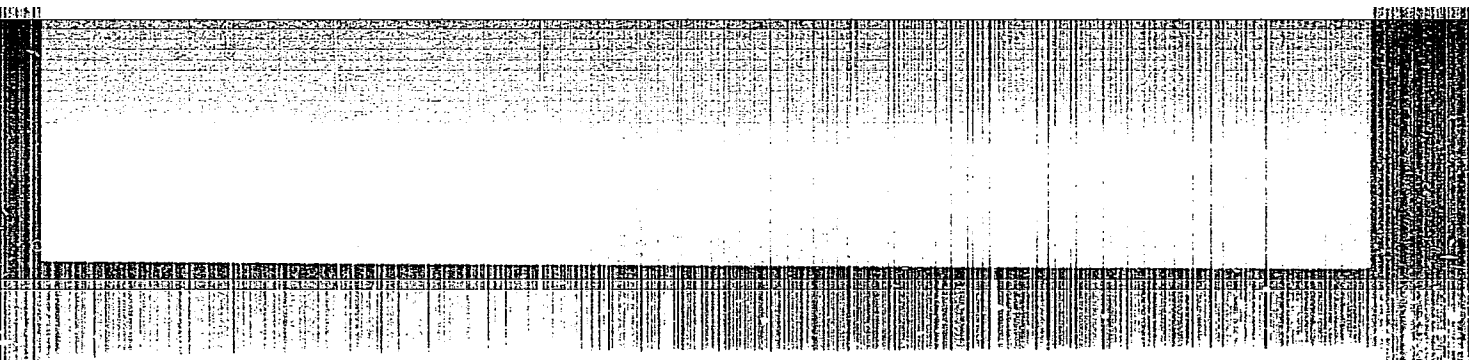
REPORTING NUMBER

2823. CHEMICAL COMPOSITION OF TAR FROM LOW TEMPERATURE CARBONIZATION OF

COAL

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000620020013-7



APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000620020013-7"

FISHER, L.B.; KALECHITS, I.V.

Composition, separation, and utilization of pyridine tar bases.
Trudy Vest.-Sib.fil.AN SSSR. no.3:72-78 '55. (MIRA 9:4)
(Coal-tar products) (Pyridine)

KALECHITS, I.V.; KATKOVA, L.M.; BLINOV, V.N.

Mechanism of the hydrogenation of benzene over a nickel catalyst.
Trudy Vest.-Sib.fil.AN SSSR no.3:94-98 '55. (MIRA 9:4)
(Benzene) (Hydrogenation)

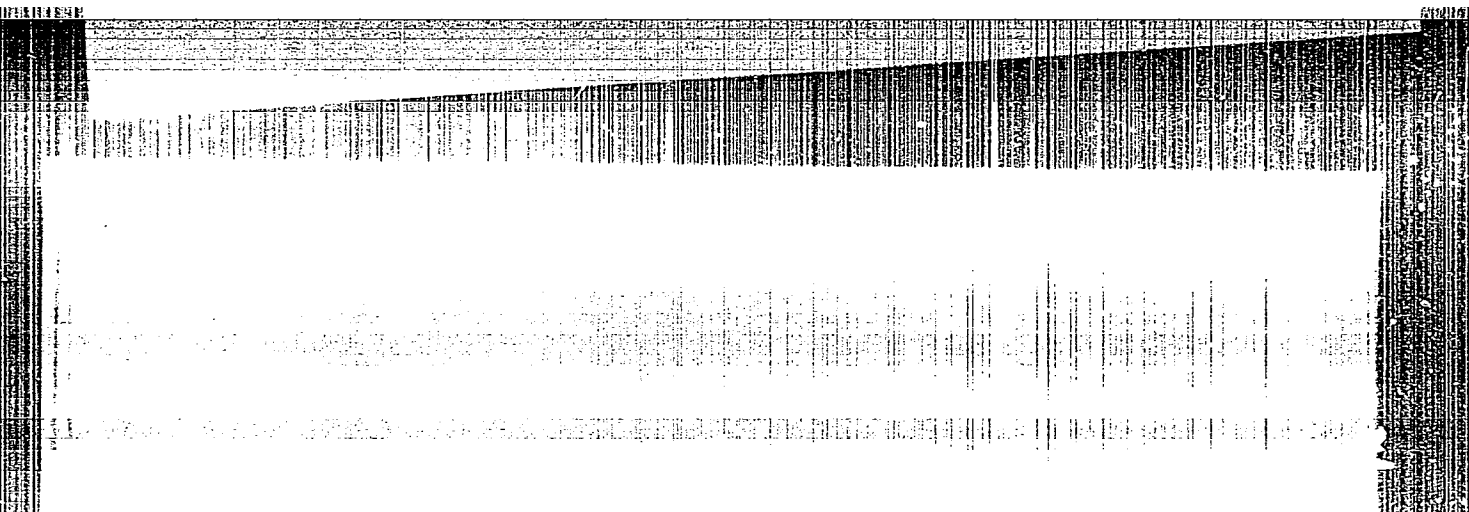
KALECHITS, I.V.; KAFKOVA, L.M.

Chemism of hydrocarbon degradation in destructive hydrogenation.
Trudy Vest.-Sib.fil.AN SSSR. no.3:99-104 '55. (MIRA 9:4)
(Hydrocarbons) (Hydrogenation)

KALECHITS, I.V.; POPOVA, N.I.

Use of chromatographic adsorption analysis in the study of primary tars and of the products of their hydrogenation. Trudy Kom.anal.khim. (MLRA 9:5)
6:97-121 '55.

1. Vostochno-Sibirskiy filial AN SSSR.

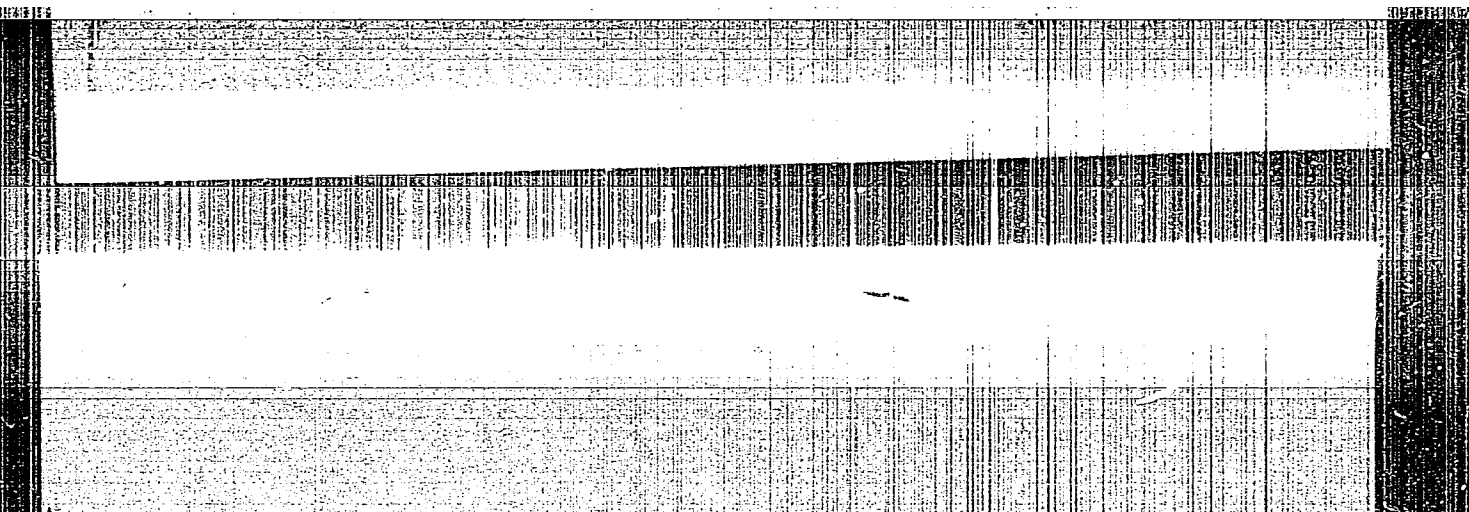


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The composition of the products of destructive hydrogenation of paper over tungsten nickel catalyst and the

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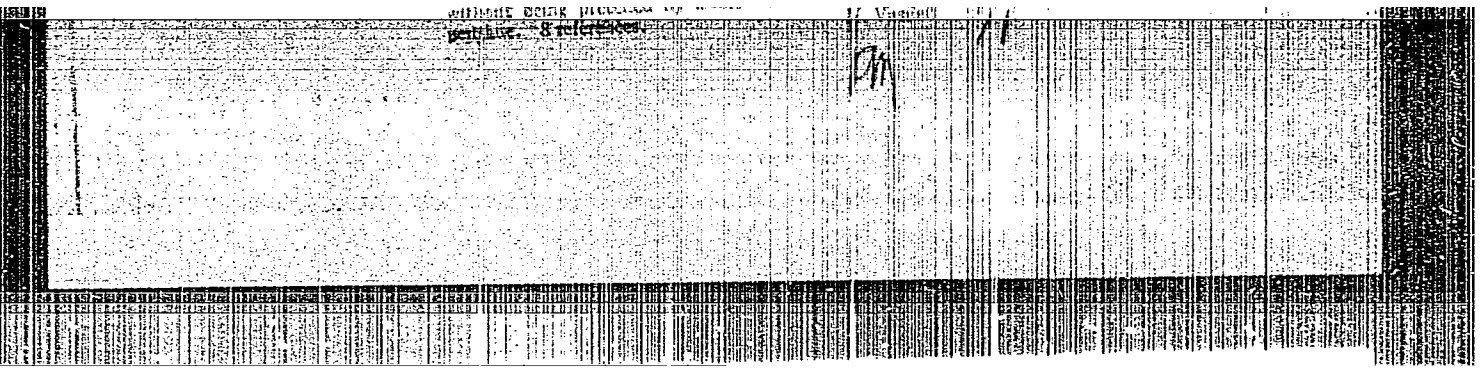


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CIA-RDP86-00513R000620020013-7"

Knechits, I.

CHINA / Chemical Technology. Chemical Products and Their H
Processing of Solid Fuel Minerals.

SOV/ 65-58-7-9/12

Investigations of Chinese Scientists in the Field of Destructive Hydrogenation of Fuels.

and 48 Chinese References.

ASSOCIATION: Vostochno-Sibirskiy filial AN SSSR (The East Siberian Branch of the Academy of Sciences of the USSR), and Otdeleniye tekhnicheskikh nauk AN Kitaya (The Department for Technical Sciences of the Chinese Academy of Sciences).

1. Fuels--Hydrogenation 2. Fuels--Test results 3. Scientific research--China

ZAYDMAN, N.M.; SHERGINA, N.I.; PEREVALOVA, N.G.; KALECHITS, I.V.

Use of spectrophotometric methods for the analysis of lower
phenols of semicoke tars. Trudy kom. anal. khim. 8:243-251
'58.

(MIRA 11:8)

1. Vostochno-Sibirskiy filial Akademii nauk SSSR.
(Cresol--Spectra) (Phenol--Spectra)

KALECHITE, I.V.; CHZHEN LU-BIN Cheng Lu-pin]; SYUY CHEN-DUN [Hsu Ch'eng-tung]

Hydrogenating, isomerizing and splitting activity of some catalysts
used in destructive hydrogenation. Izv. Sib. otd. AN SSSR no.10:
3-12 '58. (MIRA 11:12)

1. Vostochno-Sibirskiy filial AN SSSR, Institut nefi AN, Kitayskaya
Narodnaya Respublika.
(Hydrogenation) (Catalysts)

5 (0)

CHICOM/31-58-15-6/13

AUTHOR: Ch'i, Tsu-wei (蔡祖威) and I. V. Kalechits

TITLE: The Mechanism of Formation of Lower Phenols Under Destructive Hydrogenation

PERIODICAL: K'o Hsüeh T'ung Pao, 1958, Nr 15, pp 472-473

ABSTRACT: Figure 1 shows the possible mechanism of destructive hydrogenation of three phenols; p-propyl phenol, 5-hydro indenol, and tetrahydro- β -nathphol, as discovered by analyses of the products by both chemical and physical methods. Two rules were found by comparing results of destructive hydrogenations of 5-hydro-indenol and tetrahydro- β -naphthol: (1) The weakest bond is C-C. (2) The para-position bond is weaker than the meta-position. An explanation based on an

5 (0)

CHICOM/31-58-15-8/13

AUTHOR: Yeh, Tsu-heng (葉 和 漢) and I. V. Kalechito

TITLE: On the Transformation of Basic Nitrogenous Compounds Under Destructive Hydrogenation II. The Influence of Structure of Nitrogenous Compounds to Their Transformation

PERIODICAL: K'uo Hsueh T'ung Pao, 1958, Nr 15, pp 474-475

ABSTRACT: In this article, the bond distance, the electronic displacements, and the hindrance effects are used to explain the experimental results shown in the table on p 474. The following statements are said to be proved: (1) The larger the electronic density of a bond, the shorter the bond, and the more the unsaturation of the bond. (2) Hindrance effects are obvious for 2-methyl quinoline. (3) Production of some strong allylic...

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CHICOM/31-58-15-9/13

AUTHOR: Chang, Yen-ch'ing (張 晏 清) and I. V. Kalechits

TITLE: The Conversion of Some Six-Membered Naphthenes Under Platforming Conditions

PERIODICAL: K'uo Hsueh T'ung Pao, 1958, Nr 15, pp 475-476

ABSTRACT: Under 430-470 C, 20 atm; space velocity 2.0-15.0/hr, weight ratio of hydrogen to oil 6:1, and in the presence of a platinum catalyst, the conversion products of methylcyclohexane and cyclohexane are analyzed with results shown in Tables 1 and 2. The influence of reacting conditions on reforming are then investigated and briefly given. By graphical differentiation, the rate equations for aromatization, hydrocracking, and total conversion of the above mentioned

5 (0)

CHICOM/31-58-15-10/13

AUTHOR: Chang, Yen-ch'ing (張安清) and I. V. Kalechits

TITLE: The Conversion of Some Five-Membered Naphthenes Under a Platforming Catalyst

PERIODICAL: K'io Hsueh T'ung Pao, 1958, Nr 15, pp 476-477

ABSTRACT: The analyses of the products from passing a 450-470 C, 20 atm, 6:1 mixture, hydrogen and methyl cyclopentane or dimethylcyclopentane, with space velocity of 1.0-6.0/hr over platinum reforming catalysts, are shown in Table 1 and 2. The influence of reacting conditions on reforming are then investigated and briefly stated. By graphical differentiation, the rate equations for aromatization, hydrocracking, and total conversion are determined. Tables 1 and 2.

5 (0)

CHICOM/31-58-15-11/13

AUTHOR: Chang, Yen-ch'ing (張晏清), I. V. Kalechits

TITLE: Some Problems of Reaction Mechanism and Active Center of Platforming Catalyst

PERIODICAL: K'uo Hsüeh T'ung Pao, 1958, Nr 15, pp 477-478

ABSTRACT: Using Pt-Al₂O₃, HF-Al₂O₃, or Pt-HF-Al₂O₃ as a catalyst, Table 1 shows results of platforming of methylcyclopentane and its various possible intermediates to aromatic hydrocarbons conducted under 430 C, 20 atm, space velocity 3.0 and molecular ratio of hydrogen to oil equal to 6:1. It can be seen that dehydrogenation is catalyzed by Pt-Al₂O₃, isomerization is catalyzed by HF-Al₂O₃, while the catalyst HF-Pt-Al₂O₃ can catalyze both dehydrogenation and isomeri-

TSZYAN BIN-NAN' [Chiang Ping-nan]; VEY SHI-PIN [Wei Shih-p'ing]; LIN LI-U
[Ling Li-wu]; CHZHOU FYH-LEN; KALECHITS, I.V.

Hydrogenation of shale tars on fixed-bed catalysts. Izv.Sib.otd.
AN SSSR no.2:81-96 '59. (MIRA 12:7)

1. Institut nefti AN Kitaya.
(Tar) (Hydrogenation) (Catalysis)

KALECHITS, I.V.; SIDOROV, R. I.

Materials balance sheets of the liquid-phase hydrogenation of
the tar of Cherenkhovo coal. Trudy Vost.-Sib. fil. AN SSSR no.18:
42-48 '59. (MIRA 12:10)
(Coal-tar products)

KALECHITS, I.V.; OKLADNIKOVA, Z.A.

Chemistry of the conversion of the high-molecular weight part
of semicoke tar under conditions of destructive hydrogenation.
Trudy Vost.-Sib.fil.AN SSSR no.18:49-63 '59. (MIRA 12:10)
(Coal-tar products)

KALECHITS, I.V.; PAVIOVA, K.A.; SAMOYLOV, S.M.

Effect of the recrystallization of the WS_2 catalyst on its hydro-
genating and isomerizing activities. Trudy Vost.-Sib.fil.AN
SSSR no.18:81-86 '59. (MIRA 12:10)
(Tungsten sulfide)

SALINGAREYDVA, F.G.; DAVIDOVICH, B.V.; IVANOVA, M.F.; KALECHITS, I.V.

Hydrogenation of narrow fractions of phenols from tars of
Cheremkhovo coals over an iron catalyst. Trudy Vost.-Sib.fil.
AN SSSR no.18:87-94 '59. (MIRA 12:10)
(Phenols)

TSZYAN Bin-Nan' [Chiang Ping-nan]; LIN Li-U [Ling Li-wu]; CHZHOU FYN-IEN;
KALECHITS, I.V.

One-step destructive hydrogenation of crude Mowming shale tar
over a stationary catalyst. Trudy Vost.-Sib.fil.AN SSSR no.18:
107-129 '59. (MIRA 12:10)
(Tar) (Catalysts)

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S/081/60/000/016/002/012
A006/A001

5.1190 also 2209

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 16, p. 72, # 64645

AUTHORS: Kalechits, I.V., Sun-Yun-zhuey, Go Chu, Van Ke-in

[Annotation: Correctly: Sung Yung-Shui, K'uo Ch'u, Wang K'e-Ying]

TITLE: On the Physical and Catalytical Properties of Molybdenum-Alumosilicate Catalysts. Information 1. On the Effect of Preparation Methods on the Hydrogenating Activity of Molybdenum-Alumosilicate Catalysts. Information 2. The Dependence of Physico-Chemical Properties of Catalysts on the Alumogel-Silicagel Ratio in the Car-

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A006/A001

On the Physical and Catalytical Properties of Molybdenum-Alumosilicate Catalysts.
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of Molybdenum-Alumosilicate Catalysts. Information 2. The Dependence of Physico-
Chemical Properties of Catalysts on the Alumogel-Silicagel Ratio in the Carrier.
Information 3. On the Effect of the Alumogel-Silicagel Ratio on the Hydrogenating
Activity of Molybdenum-Alumosilicate Catalysts. Information 4. On the Effect of
the Carrier Composition on the Isomerizing Activity of Molybdenum-Alumosilicate
Catalysts. ✓

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On the Physical and Catalytical Properties of Molybdenum-Alumosilicate Catalysts. Information 1. On the Effect of Preparation Methods on the Hydrogenating Activity of Molybdenum-Alumosilicate Catalysts. Information 2. The Dependence of Physico-Chemical Properties of Catalysts on the Alumogel-Silicagel Ratio in the Carrier. Information 3. On the Effect of the Alumogel-Silicagel Ratio on the Hydrogenating Activity of Molybdenum-Alumosilicate Catalysts. Information 4. On the Effect of the Carrier Composition on the Isomerizing Activity of Molybdenum-Alumosilicate Catalysts. K

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Activity of Molybdenum-Alumosilicate Catalysts. Information 4. On the Effect of
the Carrier Composition on the Isomerizing Activity of Molybdenum-Alumosilicate
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On the Physical and Catalytical Properties of Molybdenum-Alumosilicate Catalysts.
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Information 3. On the Effect of the Alumogel-Silicagel Ratio on the Hydrogenating
Activity of Molybdenum-Alumosilicate Catalysts. Information 4. On the Effect of
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second page

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On the Physical and Catalytical Properties of Molybdenum-Alumosilicate Catalysts.
Information 1. On the Effect of Preparation Methods on the Hydrogenating Activity
of Molybdenum-Alumosilicate Catalysts. Information 2. The Dependence of Physico-
Chemical Properties of Catalysts on the Alumogel-Silicagel Ratio in the Carrier.
Information 3. On the Effect of the Alumogel-Silicagel Ratio on the Hydrogenating
Activity of Molybdenum-Alumosilicate Catalysts. Information 4. On the Effect of
the Carrier Composition on the Isomerizing Activity of Molybdenum-Alumosilicate
Catalysts.

KALECHITS, I.V.; SI TSZU-VEY, [Hsi Tsu-Wei]; SALINGAREYEVA, F.G.

Transformations of some individual phenols under conditions
of destructive hydrogenation. Trudy Vost.-Sib.fl.AN SSSR
no.26:45-62 '59. (MIRA 13:6)
(Phenols) (Hydrogenation)

KALECHITS, I.V., IN' YUAN' - GEN' [Yin Yuan-ken]

Activity versus selectivity of hydrofining catalysts.
Trudy Vost.-Sib.fil.AN SSSR no.26:108-120 '59. (MIRA 13:6)
(Catalysts) (Hydrogenation)

KALECHITS, I.V., IN¹ YUAN¹-GEN¹ [Yin Yuan-ken]

Effects of additives in the reaction mixture and in the hydrofining catalysts on the activity and selectivity of the latter. Trudy Vost.-Sib.fl. AN SSSR no.26:121-127 '59.

(MIRA 13:6)

(Catalysts) (Hydrogenation)

KALECHITS, I. V.

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1004/0000

P. Kuznetsov, A. G. Zhuravskiy, I. V.

Abstract Spectra of Benzoin Compounds

9, 1580, Vol. 25, Pt. 5, pp 251-253

as the spectral effects produced by introduction into the phenolic compound (G). The authors also report that the authors have investigated the effects of such substituents or the substituents of benzoin compounds. The authors also report that the authors have investigated the effects of such substituents or the substituents of benzoin compounds. The authors also report that the authors have investigated the effects of such substituents or the substituents of benzoin compounds.

effect than that in the ortho or meta or para substituted compounds. The authors also report that the authors have investigated the effects of such substituents or the substituents of benzoin compounds. The authors also report that the authors have investigated the effects of such substituents or the substituents of benzoin compounds.

Kalechits, E.V.

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A. [t] 10; Fizika i Khimiko-Khudozh. Metalle
i Catalysis. [vol.] 10; Physics and Physico-
Moscow, Izd-vo AN SSSR, 1960. 461 p. Errata
page printed.

responding Member of the Academy of Sciences USSR,
Department of Chemistry, M. of Publishing House: A.L.
A. Astas'yan.

If articles is addressed to physicists and chemists
scientists in general interested in recent
and physical chemistry of catalysis.

This collection were read at the conference on the
History of Catalysis organized by the Otdel Khimicheskikh
Chemical Sciences, Academy of Sciences USSR) and by
the problem of the scientific bases for the selection
of catalysts. The conference was held at the Institute of
Chemistry of the AN USSR) in Moscow, March 20-25, 1959.
The material presented at the conference, only papers not
included in this collection.

I.S.Z. Roginskiy, [Institute of Physical
Catalytic Properties of Germanium 102

BY (Fiziko-khimiicheskiy Institut Imeni L.V.
Kireevskogo, Moscow, 1957). Investigation of the
Activity and the Semiconductor Properties 103

and I.I. Strakho [Institute of Physics of
Surface Contact Potential of Germanium 111

and Ya. A. Fokina [Institute of Physical Chemistry of
Semiconductors in the Self-conductance Zone 117

as Branch of the AN USSR]. Selection of H₂O
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Institute Imeni L.V. Kireevskogo, Catalysis 126

Olszko [Department of Physics of Moscow State
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Sciences, Relation of Catalysis and Chemisorption to 135

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gation of Catalysis with the Aid of an Electron 139

Fizicheskiy khimii Imeni L.V. Kireevskogo
Institute Imeni L.V. Kireevskogo of the AN
USSR, Relation of Catalysis and Chemisorption to 163

London. Investigation by Electrochemical
Methods of Catalytic Hydrogenation 172

Lenina, Kazanskaya SSR). On the Problem of
Catalysis for Liquid Phase Hydrogenation 173

Physical Chemistry of the AN USSR]. Investigation
of Catalysis in Hydrogenation and Reduction Reaction 177

[Moscow Chemical Technological Institute
of Chemical Engineering, Molecular Hydro-
genation 192

A. Kuznetsov, V.V. Shishkov, L.M.
Kuznetsov [Institute of the Nitrogen Industry].
Catalysis with Three and Four Promoters for the 199

Relation between the Promoters
and Platinum Catalysts 204

A.M.I. Yuzovskiy [Institute of Physical
Chemistry, The Isotope Method of the Surface of
Catalyst 210

KALECHITS, I.V.

Selection of high temperature sulfide catalysts for various cases of destructive hydrogenation. Probl. kin. i kat. 10:121-127 '60.

(MIRA 14:5)

1. Vostochno-Sibirskiy filial AN SSSR.
(Hydrogenation) (Catalysts) (Sulfides)

C/081/60/005/001/001/004
F031/F004

AUTHOR: Kalechits, I. V., Sung, Yung-jui (1345/3057/3843); Kuo, Ch'u
(6753/4342); and Wang, K'o-ying (3769/0344/3841)

TITLE: Physical and catalytic properties of $\text{MoS}_2\text{-SiO}_2\text{-Al}_2\text{O}_3$ catalysts.
I. Preparation of $\text{MoS}_2\text{-SiO}_2\text{-Al}_2\text{O}_3$ catalysts and effects of the
catalysts on hydrogenation activity

PERIODICAL: Jan Liao Hstleh Pao, v. 5, no. 1, 1960, 1-6

C/081/60/005/001/001/004
F031/F004

Physical and catalytic properties ...

10 hrs, add 2.3 N NH_4OH and agitate for 11 hrs., then filter and dry, and calcine for activeness. 2. Preparation of Si-Al carrier by the coprecipitation method. Add 800 ml aluminum sulphate (15 gm $\text{Al}_2\text{O}_3/1$) to 1.3 l waterglass (100 gm $\text{SiO}_2/1$), macerate at $50-60^\circ$ in ammonium chloride four times and in aluminum sulphate four times, then filter and dry, and calcine. 3. Preparation of Si-Al carrier by the composite method. Add water glass (165 gm $\text{SiO}_2/1$) to 1.5 N HNO_3 solution at 15° for mixture for 20 hrs, macerate four times in 5% NH_4NO_3 , and in water macerate by NH_4OH 4-6

Physical and catalytic properties ...

C/081/60/005/001/001/004
F031/F004

catalysts and the physical structure of catalysts and carriers. The mean radius of pores was calculated by formula $r = \frac{2v}{s} \times 10^4$ where r is the average diameter of pore, v volume of pore, s the surface area. 6. The hydrogenation activity of catalysts: The experiment was under conditions of 420° temperature, 200 atm pressure, 3/hr fluid speed, 8:1 hydrogen-benzene ratio and ± 0.0003 refraction rate of samples. Chromatographic method was used for the determination of benzene content and the conversion rate of benzene. Results show that activities can be determined.

Physical and catalytic properties ...

C/081/60/005/001/001/004
F031/F004

Colloid Science, 2, 399 (1947). Linstead, R. P., Thomas, S. L. S. J. Chem. Soc. 1127, (1940). Anderson, R. B., McCartney, J. T. Hall, W. K. & Hofer, L. J. E., Ind. Eng. Chem. 39, 1618 (1947)

ASSOCIATION: Chung Kuo K'o Hsüeh Yüan Shih Yu Yen Chiu So (Petroleum Institute, Chinese Academy of Sciences)

SUBMITTED: July 25, 1959

S/081/60/000/024/003/016
A005/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 24, p. 76, # 95733

AUTHORS: Kalechits, I.V., Sung Yung-jui, Go Chu, Van Ke-in

TITLE: On the Physical and Catalytical Properties of Molybdenum-Alumino-
silicate Catalysts. 2-nd Report. The Dependence of the Physico-
chemical Properties of Catalysts on the Alumogel- Silica Gel -
Ratio in the Carrier

PERIODICAL: ⁵ Hanliao xuebao. ^{Hsueh} Acta focalia sinica. 1960. Vol. 5 No. 1 pp. 7-15

S/081/60/000/024/003/016
A005/A001

On the Physical and Catalytical Properties of Molybdenum-Aluminosilicate Catalysts.
2-nd Report. The Dependence of the Physicochemical Properties of Catalysts on the
Alumogel - Silica Gel - Ratio in the Carrier

the surface acidity change, which, however, does not conform to the splitting ac-
tivity change. The interaction causes also the appearance of new big pores in
the carrier and the change of its phase composition, i.e., the formation of a new
phase similar to α -SiO₂. On the basis of the changes in the physicochemical
properties in consequence of the application of MoS₂ to aluminosilicates, one can
conclude that the interaction of MoS₂ with the carrier components

88256

S/076/60/034/012/005/027
B020/B067

5.4300

AUTHORS: Kalechits, I. V. and In' Yuan'-gen' (Irkutsk)

TITLE: Kinetics of Olefin Hydrogenation Over a Cobalt -
Alumomolybdenate Catalyst

PERIODICAL: Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 12,
pp. 2687-2693

TEXT: The cobalt alumomolybdate catalyst used contained 0.8% Co,
The device for pressure hydrogenation consisted of

X

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Kinetics of Olefin Hydrogenation Over a
Cobalt - Alumomolybdenate Catalyst

S/076/60/034/012/005/027
B020/B067

chromatographically from raw material II. The refractive index of the hydrolyzate was experimentally determined with an accuracy of 0.00001. The experiments were made with a catalyst having a grain size of 29-35 mesh. The results are given in Table 1. The data obtained were used to determine the kinetic differential equation. The authors give an example for calculating the equation from the data given in Table 1 at 250°, which has the following form: $v_u = k p_u^\alpha p_s^\beta p_H^\gamma$, p_u , p_s , and p_H are the partial pressures of the olefins, paraffins, and of hydrogen, k is the constant of the reaction rate, and α , β and γ the ...
These quantities

KALECHITS, I. V., Dr. Chem. Sci. (diss) "Investigation in Field
of Chemism of Destructive Hydrogenation of Fuels." Irkutsk, 1961,
49 pp. (Moscow Instit. of Precise Chemical Technology im M. V.
Lomonosov) 300 copies (KL Supp 12-61, 254).

KALECHITS, I.V.; SALINGAREYEVA, F.G.; IVANOVA, M.F.; TRZHTSINSKAYA, E.V.

Chemistry of the transformation of esters in liquid phase hydrogenation. *Izv.Sib.otd. AN SSSR no.1:44-51 '61.* (MIRA 14:2)

1. Vostochno-Sibirskiy filial Sibirskogo otdeleniya AN SSSR,
(Hydrogenation) (Esters)

SALIMGAREYEVA, F.G.; IVANOVA, M.F.; TRZHTSINSKAYA, B.V.; KALECHITS, I.V.

Transformations of carbonyl compounds in destructive hydrogenation.
Izv.Sib.otd.AN SSSR no.5:115-117 '61. (MIRA 14:6)

1. Irkutskiy Institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

(Carbonyl compounds) (Hydrogenation)

KALECHITS, I.V.; PAVLOVA, K.A.

Composition of products of toluene destructive hydrogenation
in the presence of high temperature catalysts. Trudy Vost.-Sib.
fil. AN SSSR no. 38:15-18 '61. (MIRA 15:4)
(Toluene) (Hydrogenation) (Catalysts)

PAVLOVA, K.A.; KALECHITS, I.V.

Composition of products of o- and m-xylene destructive hydrogenation
in the presence of tungsten sulfide. Trudy Vost.-Sib.fil.AN SSSR
no.38:19-24 '61. (MIRA 15:4)

(Xylene) (Hydrogenation) (Tungsten sulfides)

KALIBERDO, L.M.; KALECHITS, I.V.

Chemical mechanism of hydrocarbon cracking in destructive
hydrogenation. Report No.3. Trudy Vost.-Sib.fil.AN SSSR
no.38:25-30 61.

(MIRA 15:4)

(Hydrocarbons)

(Hydrogenation)

33602

S/678/61/000/038/001/009

A057/A126

11.0160

AUTHORS: Kalechits, I.V., Pavlova, K.A., Kaliberdo, L.M., Skvortsova, G.G., Bogdanova, T.A., Sidorov, R.I., Trotsenko, Z.P.

TITLE: On the chemism of transformations of bi-cyclic hydrocarbons under conditions of destructive hydrogenation

PERIODICAL: Akademiya nauk SSSR. Vostochno-Sibirskiy filial. Trudy. Seriya khimicheskaya, no. 38, Moscow, 1961. Prevrashcheniya aromaticheskikh uglevodo rodov v protsesse destruktivnoy gidrogenizatsii.,

33602

S/678/61/000/038/001/009

A057/A126

On the chemism of

ory, and schemes for transformations of bi-cyclic hydrocarbons in vapor- and liquid-phase processes presented. In the present paper a discussion is presented of the problem of transformations of polycyclic hydrocarbons with a review of appropriate literature data. Among the problems to be solved is the question, whether a direct splitting of the ring is possible in hydrocarbons of the tetralin, tetrahydroanthracene, etc. type, or whether isomerization occurs before and which bonds and by what reasons are most easily split. This and related problems were investigated before. Experiments were carried out and related problems were investigated before. Experiments were carried out at 470°C, 450 atm, 3 h and 10% catalyst. ✓

33604
S/678/61/000/038/003/009
A057/A126

5.3300
AUTHORS:

Pavlova, K.A., Kalechits, I.V.

TITLE:

Destructive hydrogenation of methyl naphthalenes in the presence of a WS₂ catalyst

PERIODICAL:

Akademiya nauk SSSR. Vostochno-Sibirskiy filial. Trudy. Seriya khimicheskaya, no. 38, Moscow, 1961. Prevrashcheniya aromaticeskikh uglevodorodov v protsesse destruktivnoy gidrogenizatsii... 61 - 67

33604

S/678/61/000/038/003/009

A057/A126

Destructive hydrogenation

were carried out with each hydrocarbon and only a low content of high hydrocarbons observed in the products. Prevalent in the methane-naphtenic fraction are isomerized hydrocarbons of the series of bicyclo-(0,3,3)-octane, and bicyclo-(0,3,4)-nonane. By an exhaustive dehydrogenation of the aromatic fraction of the methyl naphthalene hydrogenation product, the present authors determined that hydrogen addition occurs quicker in the non-substituted ring. Hence the same regularities were observed as with other catalysts. Thus the obtained results demonstrate that the introduction of a methyl substitute accelerates hydrogenation, isomerization, and oxidation.

33604

Destructive hydrogenation.....

S/678/61/000/038/003/009
A057/A126

bond between tertiary and secondary atoms, but with a strong favorable formation of a secondary ion. There are 5 tables and 1 figure.

33609

S/678/61/000/038/009/009

A057/A126

11.0132

AUTHORS:

Kalechits, I.V., Okladnikova, Z.A., Nikolayeva, D.Kh.

TITLE:

On the problem of relative hydrogenation rates of polycyclic aromatic hydrocarbons

PERIODICAL:

Akademiya nauk SSSR. Vostochno-Sibirskiy filial. Trudy. Seriya khimicheskaya, no. 38, Moscow, 1961. Prevrashcheniya aromaticheskikh uglevodorodov v protsesse destruktivnoy gidrogenizatsii.. 112 - 124

KALIBERDO, L.M.; KALECHITS, I.V.

Consecutive reactions in gasoline recovery process. Trudy Vost.-
Sib.fil.AN SSSR no.38:152-154 '61. (MIRA 15:4)
(Cyclohexane) (Hydrogenation)

11.0132

33493
S/195/61/002/005/018/027
E030/E485

AUTHORS: Kalechits, I.V., Lipovich, V.G., Vykhoanets, V.V.,
Petrova, V.N.

TITLE: Isotopic investigation on the mechanism of benzol,
cyclohexane and methylcyclopentane conversions in
destructive hydrogenation

PERIODICAL: Kinetika i kataliz, v.2, no.5, 1961, 748-753

TEXT: Destructive hydrogenation has been studied at 420°C and
350 atm on a WS₂ industrial high-temperature catalyst in order to
elucidate the sequence and relationship between isomerization and

33493

S/195/61/002/005/018/027
E030/E485

Isotopic investigation on ...

the conversions required. After cooling, the hydrogenate was separated from the benzol by chromatography and then distilled on a 60-plate column. Both the yields and activities of catalysate were measured. In all experiments, there was a good linear relation between the activity of the fragmentation products and the methylcyclopentane yield; this indicates that hydrogenation proceeds faster than either isomerization or fragmentation. To show which of the two latter processes were more important, six experiments were carried out with no methylcyclopentane in the feedstock. It was found that the

Isotopic investigation on ...

33493

S/195/61/002/005/018/027
E030/E485

acidic) but only one, and the molecules move over several sites. The reactions of hydrogenation and the reverse reactions are therefore best described, not in terms of rupture of the benzol nucleus but in terms of a complex formation, involving proton-transfer from the π -complex of the ring. There are 1 figure, 2 tables and 10 references: 8 Soviet-bloc and 2 non-Soviet-bloc. The references to English language publications read as follows:
Ref.9: F.G.Ciapetta, R.M.Dobres, R.W.Baker. Catalysis, ed. P.H.Emmett, v.6, 1958, 495; Ref.10: F.E.Condon, Catalysis, ed. P.H.Emmett, v.6, 1958, 118.

TSYAN BIN-NAN' [Chiang Ping-nan]; VEY SHI-PIN [Wei Shih--p'ing]; GUAN CHZHE;
KALECHITS, I.V.

Hydrofining of crude shale tar on fixed-bed catalysts at reduced pressures. Khim.i tekhn. topl.i masel 6 no.2:21-24 F '61.

(MIRA 14:1)

1. Institut nefiti AN Kitayskoy Narodnoy Respubliki i Institut khimii Vostochno-Sibirskogo filiala Sibirskogo otdeleniya AN SSSR.
(China--Oil shale) (China--Coal-tar products)

S/076/61/035/003/002/023
B121/B203

AUTHORS: Kalechits, I. V. and In' Yuan'-gen'

TITLE: Kinetics of simultaneous olefin hydrogenation and hydrogenating ring cleavage of thiophene on a cobalt-aluminum-molybdenum catalyst

PERIODICAL: Zhurnal fizicheskoy khimii, v. 35, no. 3, 1961, 501-508

TEXT: The authors studied the kinetics of simultaneous hydrogenation of heptane-heptene mixtures and thiophene hydrogenolysis on a $\text{CoMoO}_4\text{-Al}_2\text{O}_3$ catalyst under different reaction conditions. The energetics of hydrogenation

Kinetics of ...

S/076/61/035/003/002/023
B121/B203

$$v_o = 1,42 \cdot 10^{-4} p_o^{0.61} p_{H_2}^{0.67} / p_T^{0.33} p_{H_2}^{0.63} (250^\circ); \quad (6)$$

$$v_T = 1,05 \cdot 10^{-3} p_T^{1.63} p_{H_2}^{0.32} / p_o^{1.04} p_{H_2}^{1.06} (250^\circ); \quad (7)$$

$$v_o = 2,67 \cdot 10^{-3} p_o^{1.06} p_{H_2}^{0.64} / p_T^{0.31} p_{H_2}^{0.61} (375^\circ); \quad (8)$$

$$v_T = 2,3 \cdot 10^{-3} p_T^{0.64} p_{H_2}^{0.29} / p_o^{0.33} (375^\circ). \quad (9)$$

for the olefin hydrogenation rate v_o , and for the thiophene hydrogenolysis rate v_T , respectively. Temperatures are given in $^\circ C$, p_H denotes the partial pressure of the resulting saturated hydrocarbon. These equations show that thiophene influences olefin hydrogenation, and that olefins affect thiophene hydrogenolysis. The effect of temperature on olefin hydrogenation and

Kinetics of ...

S/076/61/035/003/002/023
B121/B203

of thiophene, it is more probable that olefins react with molecular hydrogen than with chemisorbed hydrogen. The activation energy of hydrogenation in the temperature range of 200-475°C is 14.5 kcal/mole, that of hydrogenolysis is 17.5 kcal/mole. There are 1 figure, 4 tables, and 10 references: 2 Soviet-bloc and 8 non-Soviet-bloc. The four most recent references to English-language publications read as follows: W. A. Wilson, W. F. Voreck, R. N. Malo, *Industr. and Engng. Chem.*, 49, 657, 1957; F. W. Kirsch, H. Heineman, D. H. Stevenson, *Industr. and Engng. Chem.*, 49, 646, 1957; S. Weller, J. Amen *Inst. Chem. Engrs.*, 2, 59, 1956; T. Kwan, *J. Phys. Chem.*, 60, 1033, 1956.

KALECHITS, I.V.; OKLADNIKOVA, Z.A.; NIKOLAYEVA, D.Kh.

Relative hydrogenation rates of polycyclic aromatic hydrocarbons.
Trudy Vost.-Sib.fil.AN SSSR no.38:112-124 '61. (MIRA 15:4)
(Hydrocarbons) (Hydrogenation)

KALECHINS, I.V.; LIPOVICH, V.G.; VYKHOVANETS, V.V.

Mechanism of the destructive hydrogenation of benzene studied
by means of tagged atoms. Trudy Vost.-Sib.fil.AN SSSR no.38:5-14
'61. (MIRA 15:4)
(Benzene) (Hydrogenation) (Carbon—Isotopes)

ACCESSION NR: AT4010611

S/3051/63/000/000/0166/0170

AUTHOR: Nakhmanovich, A. S.; Kalachits, I. V.

TITLE: Hydrogenation of polycyclic hydrocarbons and heterocyclic compounds over a platinum catalysts in the liquid phase

SOURCE: Kataliticheskiye reaktsii v zhidkoy faze. Trudy* Vsesoyuznoy konferentsii. Alma-Ata, 1963, 166-170

TOPIC TAGS: hydrogenation, catalytic hydrogenation, polycyclic hydrocarbon hydrogenation, heterocyclic ring hydrogenation, Adams platinum, catalytic hydrogenation

ACCESSION NR: AT4010611

hydrogenation in glacial acetic acid and decalin was compared and the latter was found to be strongly inhibitory, especially for the hydrogenation of naphthalene, anthracene and biphenyl. This is due to the fact that the decalin takes up a significant proportion of the active surface of the catalyst. Orig. art. has: 2 tables.

ASSOCIATION: Institut nefte i uglekhimicheskogo sinteza Sibirskogo otdeleniya AN SSSR (Institute of Petroleum and Organic Chemical Synthesis, Siberian Section, AN SSSR)

SUBMITTED: 00

DATE ACQ: 25 Jan 64

ENCL: 00

COAL NOT ORGANIC

KALECHITS, I.V.; NAKHMANOVICH, A.S.; KAZANTSEVA, V.M.

Influence of the bond multiplicity on the hydrogenation
kinetics of polycyclic hydrocarbons. Kin. i kat. 4 no.3:
395-403 My-Je '63. (MIRA 16:7)

1. Institut nefte- i uglekhimicheskogo sinteza Sibirskogo
otdeleniya AN SSSR.

(Hydrocarbons) (Hydrogenation)
(Chemical bonds)

KALECHITS, I.V.; NAKHMANOVICH, A.S.

Hydrogenation kinetics of polycyclic hydrocarbons. Dokl. AN
SSSR 148 no.4:835-838 F '63. (MIRA 16:4)

1. Institut nefte- i uglekhimicheskogo sinteza Sibirskogo
otdeleniya AN SSSR. Predstavleno akademikom A.A. Balandinym.
(Hydrocarbons) (Hydrogenation)

BOGDANOVA, T.A.; MORZHEY, V.V.; KALECHITS, I.V.

Mutual transformations of stereoisomeric 1,3-dimethylcyclopentanes
in analytical dehydrogenation. Dokl. AN SSSR 159 no.2:361-364
N '64. (MIRA 17:12)

1. Predstavleno akademikom B.A. Kazanskim.

TRZHTSINSKAYA, B.V.; KALECHITS, I.V......

Chemical mechanism of alkyl phenyl ether conversions under high pressures and at high temperatures. Kin. i kat. 6 no.2:346-350 Mr.-Ap '65.
(MIRA 18:7)

1. Institut ugle- i neftekhimicheskogo sinteza, gorod Angarsk.

PAVLOVA, K.A.; PANTELEYEVA, B.D.; DERYAGINA, E.N.; KALECHITS, I.V.

Effect of nonstoichiometric sulfur on the activity of sulfide catalysts. *Kin. i kat.* 6 no. 3493-498. *Moscow* 1965.

(MIRA 18:10)

1. Institut nefte- i uglekhimicheskogo sintesa, Angarsk.

VYKHOVANETS, V.V.; CHENETS, V.V.; KNUTOV, V.I.; KALECHITS, I.V.

Methods of the determination of the mark position in six-membered rings. Izv. vys. ucheb. zav.; khim. i khim. tekhn. 8 no.3:432-434 '65. (MIRA 18:10)

1. Irkutskiy gosudarstvennyy universitet imeni Zhdanova, kafedra organicheskoy khimii.

VYKHOVANETS, V.V.; LIPOVICH, V.G.; KNUTOV, V.I.; CHENETS, V.V.; BLYUM, O.I.;
KALECHITS, I.V.

Syntheses of methylcyclohexanes labeled with carbon- C^{14} in
positions 1,2,3,4, and 7. Zhur.VKHO 10 no.4:465-466 '65.
(MIRA 18:11)

1. Institut nefte- i uglekhimicheskogo sinteza.

SAKOVICH, F.I., kand.tekhn.nauk; KALECHITS, N.P.

Utilization of drained lands in White Russia. Zemledelie 25
no.5:11-16 My '63. (MIRA 16:7)

1. Belorusskiy nauchno-issledovatel'skiy institut melioratsii i
vodnogo khozyaystva (for Sakovich). 2. Direktor Minskogo
eksperimental'nogo khozyaystva Belorusskogo nauchno-issledova-
tel'skogo instituta melioratsii i vodnogo khozyaystva (for
Kalechits).

(Minsk Province--Peat bogs) (Minsk Province--Drainage)

AMINCHIN, R.V.

Method for determining the equivalent content of uranium
in analyses of nonequivalent areas. Received. 1 okt. 1965.
no.1:54-57 Ja '65. (MIRA 18:3)

1. FIGUR.

KALECHITS, S.

Training in a work brigade. Prof.-tekh.obr. 17 no.6:10-11 Je '60.
(MIRA 13:7)

1. Zamestitel' direktora po uchebno-proizvodstvennoy chasti
stroitel'nogo uchilishcha No.25, Minsk.
(Building trades--Study and teaching)
(Education, Cooperative)

KALECHITS, Sergey Nikolayevich; SERIN, V.A., nauchnyy red.; MIKHAL'CHUK, Z.V., red.; DORODNOVA, L.A., tekhn.red.

[Methods manual for instructors in special training at building and trade schools for plasterers] Metodicheskoe posobie pre-podavateliam spetsial'noi tekhnologii pri podgotovke v stroitel'nykh i remeslennykh uchilishchakh shtukaturov. Moskva, Vses. uchebno-pedagog.izd-vo Proftekhizdat, 1960. 116 p.

(MIRA 14:6

(Plastering—Study and teaching)

MARTINKEVICH, F.S., kand.geograf.nauk; SOBOL'EV, Ye.Ya., kand.geograf.nauk;
BOL'SHAKOVA, V.P., kand.ekonom.nauk; LAPTEA, D.D., kand.ekonom.
nauk; GLADKII, N.I., kand.geograf.nauk, starshiy prepodavatel';
ANICHENKO, G.V., kand.geograf.nauk; KOTT, G.Z.; TRUBILKO, N.P.,
kand.ekonom.nauk; KOROLENKO, I.K., kand.ekonom.nauk; GUTSEV, Ye.G.,
kand.geograf.nauk; CHERNENKO, V.A.; CHERNYSH, L.P., Prinsipalni
uchastnye: KOZLOVA, A.I.; KOVALEVSKIY, P.V.; MAZURENKO, R.V.;
KUYEYSHA, Ye.I.; KRYLOVA, V.S.; SERZHEINSKIY, I.I.; KURKINA, Z.A.;
KALECHITS, T.A.; ROMANOVSKIY, N.T., red.; KOSTEVICH, K.R., red.;
TURTSEVICH, L., red.izd-va; SIDERKO, N., tekhn.red.

[Distribution of the industry of White Russia for the processing
of agricultural raw materials] Razmeshchenie promyshlennosti BSSR
na obrabotke sel'skokhozsisistvennogo syr'ya. Minsk, 1959. 193 p.

KALECHITS', V.V., [Kaliechyts', V.V.], inzh.

Broad prospects. Nauka i zhyttia 8 no.8:9-13 Ag '58.
(MIRA 12:1)

1. Glavnyy spetsialist Otdela khimicheskoy promyshlennosti
Gosplana Soveta Ministrov USSR.
(Synthetic products)

PHASE I BOOK EXPLOITATION

SOV/4870

Arnol'dov, Ye. M., T.T. Honta, V.V. Kalechits', O.I. Mikhenko, Ya. M. Meytin,
O.M. Murzin, D.M. Savych, V.D. Tomashchuk, A.M. Shvans'kyi

Khimichna promyslovist' Ukrayiny (Chemical Industry of the Ukraine) [Kyiv,
Derzh. vyd-vo tekhn. lit-ry URSR] 1960. 128 p. 2,000 copies printed.
(Series: Do dekadny ukrayins'koyi literatury ta mystetstva v Moskvi)

Ed.: A.I. Rukavysnykov; Ed. (Inside Book): L. Raytburd; Tech. Ed.: L. Horkavenko.

PURPOSE: This book is intended for the general reader interested in the development
of the chemical industry of the Ukraine.

BOGOLYUBOV, Vasiliy Ivanovich [Boholiubov, V.I.]; KALECHITS,
Vitaliy Vasil'yevich [Kaliechyts', V.V.]. Inzh.:
BAUMSHTEYN, V.Ye. [Baumshtein, V.IE.], red.

[Mint that makes gold; chemistry in our life] Monetnyi
dvir, shcho kuiu zoloto; khimia v nashomu zhytti. Kyiv,
Politydav Ukrainy, 1964. 109 p. (MIRA 17:9)

1. Glavnyy spetsialist otdela plan:rovaniya khimicheskoy pro-
myshlennosti Gosudarstvennogo planovogo komiteta Ukr.SSR (for
Kalechits).

~~KALECHITS, Yevgeniy Vital'yevich; LEVITSKIY, Ye.F., redaktor; GALAKTIO-~~
~~NOVA, Ye.N., tekhnicheskii redaktor~~

[Principles of organizing production enterprises in continuous road construction] Printsipy organizatsii proizvodstvennykh predpriyatii pri potochnom stroitel'stve dorog. Moskva, Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1955. 91 p. (MIRA 9:2)
(Roads)

Konstruktsiya, Yevgeniy Vital'evich

NEKRASOV, Vladimir Konstantinovich; ~~KALECHITS, Yevgeniy Vital'evich;~~
ALEKSEYEV, A.P., red.; KOGAN, F.L., tekhn.red.

[The building of automobile roads] Stroitel'stvo avtomobil'nykh dorog.
Moskva, Nauchno-tekhn.izd-vo avtotransp. lit-ry, 1957. 486 p.
(Road construction) (MIRA 11:2)

KALECHITS, Ye. V.

KOTLYARSKIY, Boris Isaakovich; PIYARSKIY, Tikhon Ivanovich; KALECHITS, Ye. V.
redaktor; MAL'KOVA, N.V., tekhnicheskiy redaktor

[Organization of work of road machinery units] Organizatsiia rabot
mashinodorozhnogo otriada. Moskva, Nauchno-tekhn. izd-vo avtotransp.
lit-ry, 1957. 111 p. (MLBA 10:9)
(Road construction)

KALECHITS, Ye.V.
KALECHITS, Ye.V., inzh.

Re-examine the system of compiling estimates. Avt.dor. 20
no.11(181):26-28 N '57. (MIRA 10:12)
(Roads--Estimates and costs)

KALECHITS, Yevgeniy Vital'yevich; BOCHIN, V.A., red.; FEDNER, A.S., red.;
DONSKAYA, G.D., tekhn.red.

[Basic economic aspects of earthwork operations during continuous construction of roads] Osnovy ekonomiki proizvodstva zemlianykh rabot pri potochnom stroitel'stve dorog. Pod red. V.A.Bochina. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1961. 191 p. (MIRA 14:7)
(Earthwork) (Road construction)

TRESKINSKIY, Sergey Anatol'yevich; KALECHITS, Ye.V., red.;
KOVRIZHNYKH, L.P., red.izd-va; BODANOVA, A.P., tekhn.red.

[Roads on moving soils] Dorogi v podvizhnykh gruntakh.
Moskva, Avtotransizdat, 1963. 143 p. (MIRA 16:10)
(Road construction) (Soil stabilisation)

KALECHITS, Ye.V.; ROMANYCHEV, Ye.D.; IVANOV, N.N., prof., red.;
OLEYNIK, L.K., red.

[New developments in road building; variant design of the
plans for the general organization of automobile road
construction] Novosti dorozhnogo stroitel'stva; variantnoe
proektirovanie skhem obshchei organizatsii stroitel'stva
avtomobil'nykh dorog. [n.p.] Rosvuzizdat, 1963. 50 p.
(MIRA 17:9)

1. Otdeleniye usovershenstvovaniya rukovodyashchikh i in-
zhenerno-tekhnicheskikh rabotnikov (for Kalechits,
Romanychev).

SUDZHAYEV, Ivan Aleksandrovich; KALECHITS, Ye.V., red.

[Cement-concrete plants in road construction] Elemento-
betonnye zavody na dorozhnom stroitel'stve. Moskva,
Transport, 1965. 191 p. (MIRA 18:8)

S/081/63/000/001/023/061
B144/D106

AUTHORS: Jeżowska-Trzebiatowska, B., Kaleciński, J.

TITLE: Radiation chemistry of oxy-anions of transition elements.
Part 1. Reduction of potassium permanganate in aqueous
solutions by Co^{60} γ -rays

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 1, 963, 88, abstract
18613 (Bull. Acad. polon. sci. Sér. sci. chem., v. 9,
no. 12, 1961, 791-797 [Eng., summary in Russ.])

Radiation chemistry of ...

S/061/63/000/001/023/061

B144/B186

of 1.75. The high reduction yields are explained by chain reactions.
[Abstracter's note: Complete translation.]

✓

TRZEBIATOWSKA-JEZOWSKA, B.; KALECINSKI, J.

Radiation chemistry in alkaline solutions. Nukleonika 9 no.7/8:
625-635 '64

1. Institute of Structural Research, Polish Academy of Sciences,
Wroclaw.

L 34699-65 EPF(c)/EPF(n)-2/EMI(m) Pr-4/Pu-4 P/0046/64/009/07-/0625/0635/17
ACCESSION NR: AP4045669

AUTHOR: Jazowska-Trzebiatowska, B. (Yezhovska-Tshebratovska, B.); 16
Kalecinski, J. (Kaletsin'ski, Ye.) 5

TITLE: Radiation chemistry in alkaline solutions

SOURCE: Nukleonika, v. 9, no. 7-8, 1964, 625-635

TOPIC TAGS: radiolysis, alkaline solution, manganese, chromium, oxyanion

ABSTRACT: The general mechanism of radiolysis of alkaline solutions

Card: 1/2

L 34699-65

ACCESSION NR: AP4045669

(I⁻) ions were used. The radical and molecular yields were calculated on the basis of the mechanism of manganate radiation reduction in alkaline solutions and the reduction of alkaline solu-

