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by Two of its Spectra, by B. M. Levitan.
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Order from OTS or SLA \$1. 10 61-16821

Condensed trans. of [Akademiya Nauk SSSR].
Energeticheskii Institut. [izvestiya, 1940, v. 9.]
p. 23-29.

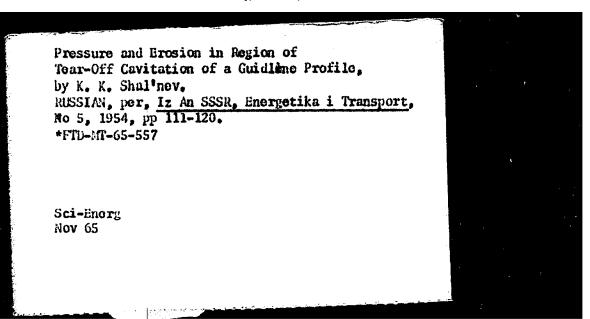
DESCRIPTORS: *Refractory materials, Quartz, iron compounds, Nickel compounds, Chromium compounds, Oxides, Combustion, Catalysis.

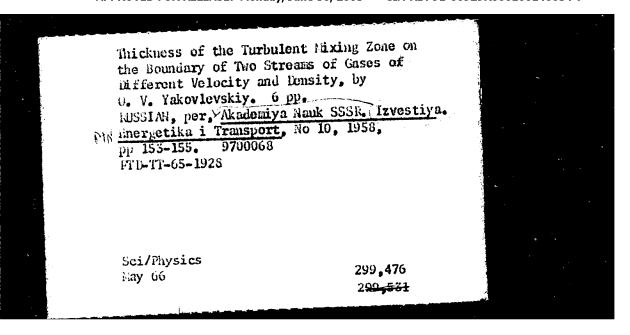
This work established that quartz packing accelerates the combustion, especially at temperatures below 700° and that fire clay grog is more active than quartz at temperatures higher than 700°, but at lower temperatures the relationship is reversed. Oxides of nickel and iron exert a higher promoting effect than vanadium oxides and permit a lowering of the (Chemistry--Physical, TT, v. 8, no. 12) (over)

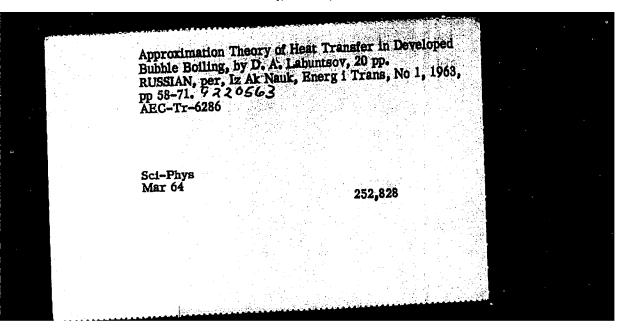
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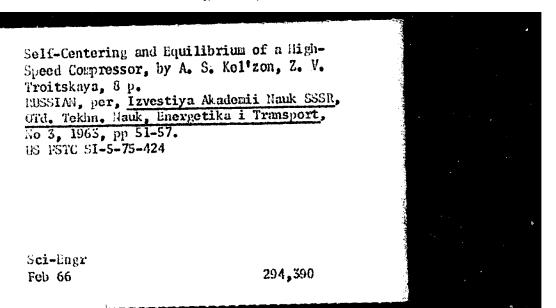
1. Rayich, M. B.
II. Zakharov, B. A.

Office of Technical Services









Agency: 1.3. my Terrestrial Sciences Senter R-10204-D 17 March 69 P.J. no. 69-1-8 Title: Hasuooksen pri kondensatsii para iz dvizkushcheisia paragazovoi smesi, -by-las-lisely Authors: TA. . Vixely & L.L. ostinskii Source: Izvestia Akad. Dauk Sonk, hergetika i Fransport,

Po. h, 1963 Öpp Language: Russian

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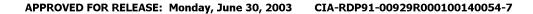
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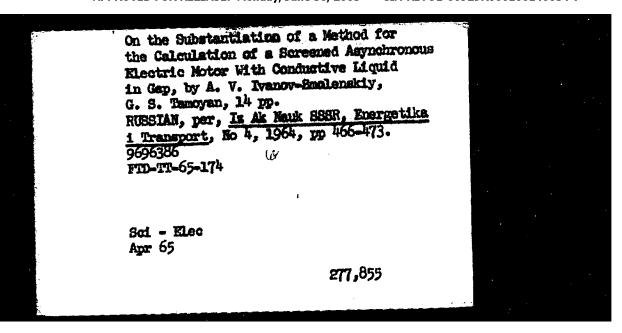
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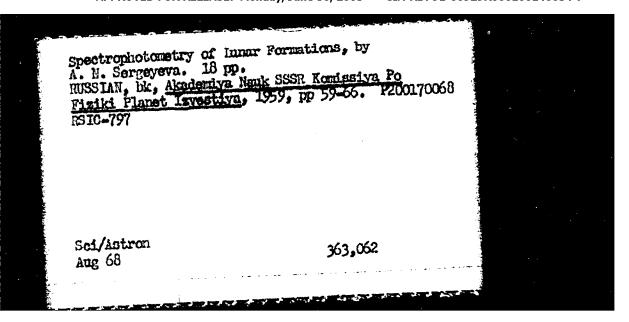
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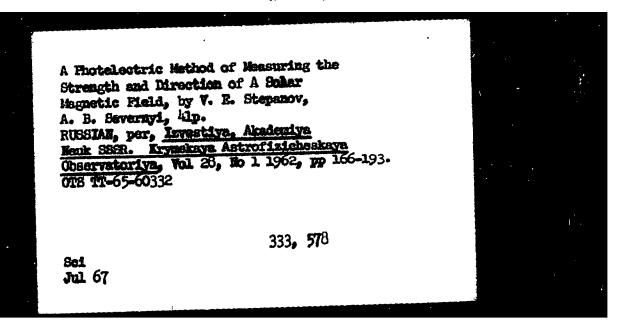
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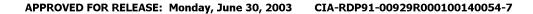
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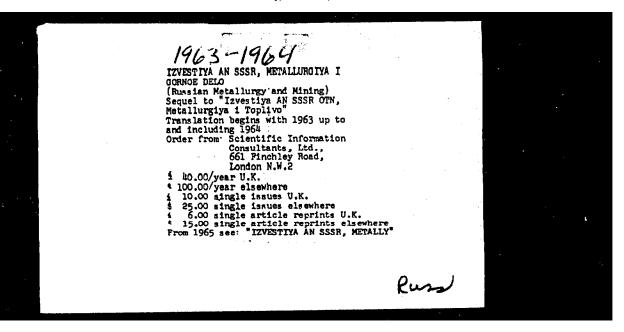
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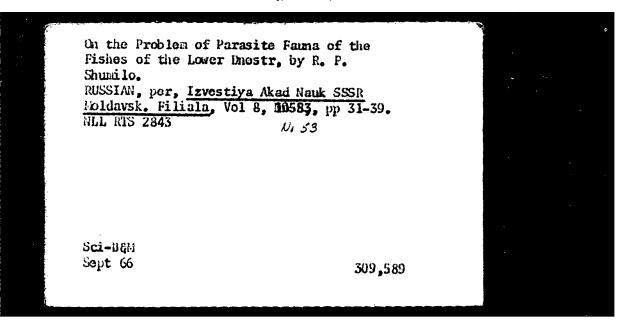
Sci/phys Feb 70

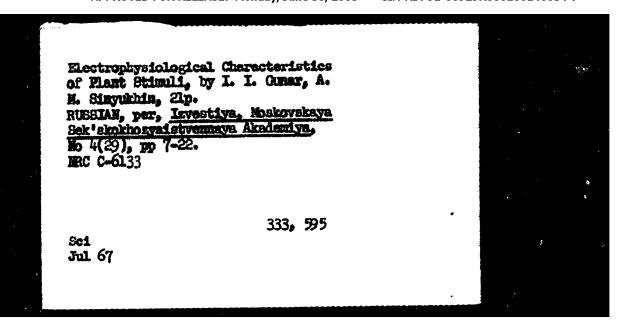
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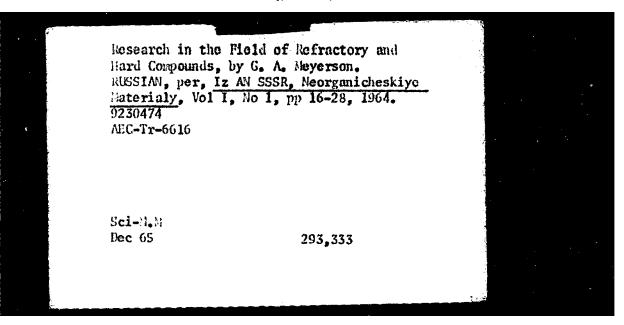
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OTS 61-11434 FI-480

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Ref 527

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NLL M 3914

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ALD SIR-3281

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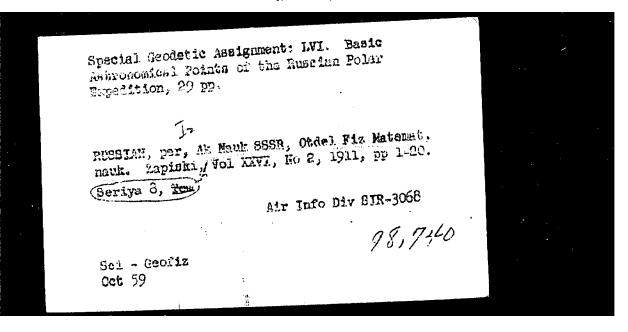
121,903

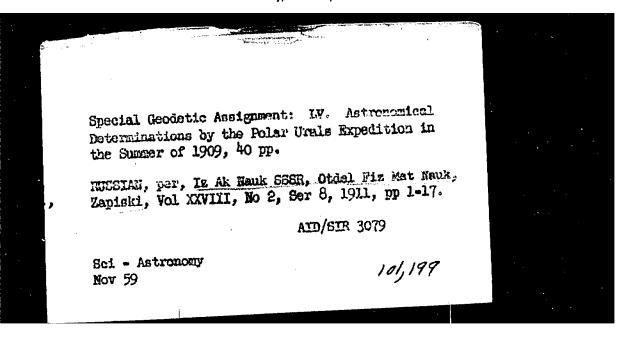
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Phoretic Phenomena at the **Interface** of Liquid Phases, by L. I. Beliaev.

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MIH 5.18

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STA R-3301

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51A R-3329

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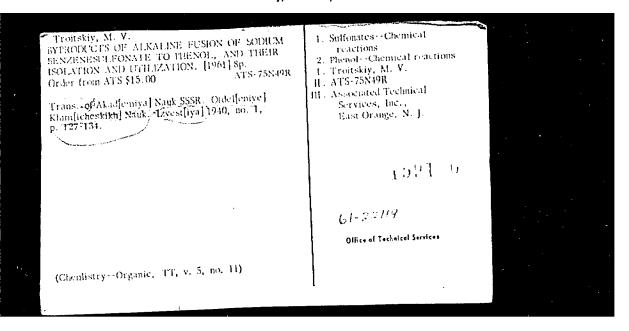
Vuks, M. F. and loffe, V. A.
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Drukhkomponentnykh Silikatnykh Stekol). [1962]
[19]p. (foreign text included) 5 refs.
Order from OTS or SLA \$1.60 62-16405

Trans. of Akademiya Nauk SSSR. [Otdelenie
Tekhnicheskikh Nauk]. Izvestiya, 1938, no. 3,
p. 61-69.

DESCRIPTORS: *Spectrographic analysis, *Glass,
*Silicates, Ramon spectroscopy, Sodium, Lead.

(Materials--Ceramics, TT, v. 8, no. 11)

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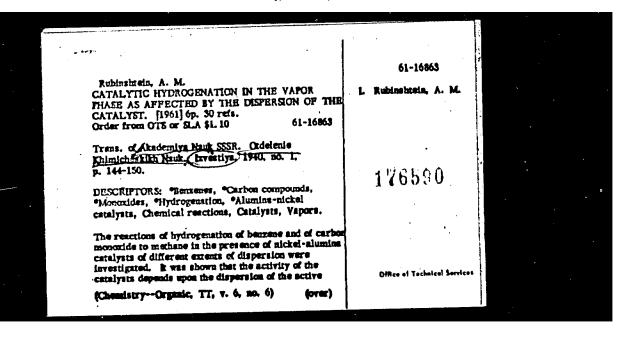
Rubinshtein, A. M.

DEHYDROGENATION ON NICKEL CATALYSTS OF
DIFFERENT EXTENT OF DISPERSION. [1961] 7p.
17 refs.
Order from OTS or SLA \$1.10 61-16861

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk (Izvestlya, 1940, no. 1, p. 135-142.

DESCRIPTORS: *Dehydrogenation, Catalysis, *Nickel catalysts, Cyclohexanes.

The dependence of the activity of nickel-alumina catalysts upon the dispersion of nickel has been investigated for the case of dehydrogenation of aliphatic and naphthenic compounds. The study was carried out with seven preparations of the catalyst, in which the dispersion of nickel varied from 49 to 122 Å. Activity-dispersion isotherms were constructed for dehydrogenation of cyclohexane and formic acid. The dependence of the (Chemistry-Organic, TT, v. 6, no. 6) (over)



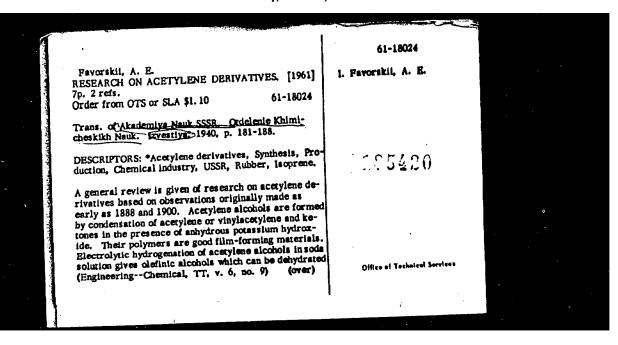
Eidus, Ya. T. and Nechaeva, N. N.

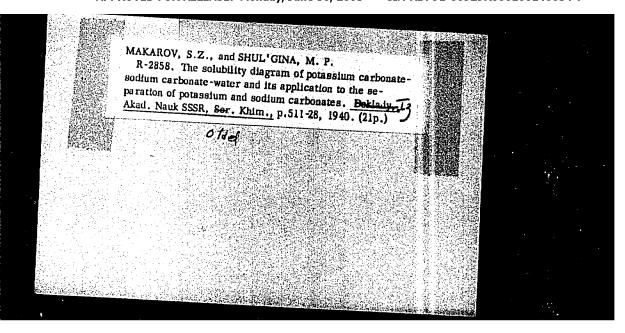
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CHEMICAL REACTIONS OF ETHYLENE IN HIGH
FREQUENCY CORONA DISCHARGE. [1961] 5p. 22 refs
Order from OTS or SLA \$1. 10

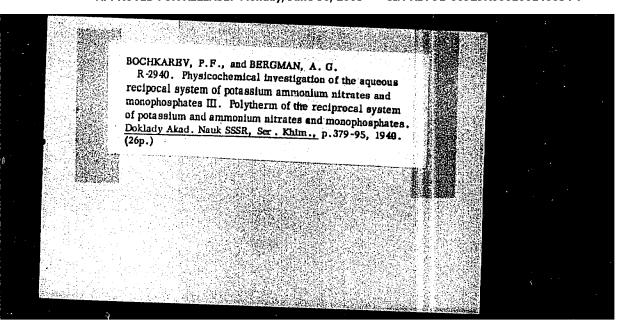
Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. (Eventual, 1940, no. 1, p. 153-160.

DESCRIPTORS: *Ethylenes, Chemical reactions, High
frequency, Electrical corona, Electrical properties.

Experiments are reported on the effect of the wattage
and frequency of high frequency corona discharge with
damped oscillations on chemical conversions of ethylene and particularly on its dehydrogenation to accetylene. The wave length within 190 to 500 meters is practically without any effect. The dependence of the yields
of reaction products (acetylene, hydrogen, paraffins)
upon the power within 0, 3 to 30 watts is given. (Aushor)
(Chemistry--Physical, TT, v. 6, no. 6)







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Abstract trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. [Izvestiya] 1940, no. 4, p. 493-508, 552-558, 588-589, 592-595.

DESCRIPTORS: *Chemistry, Abstracting, Periodicals, Glow discharges, Chemical reactions, Reaction kinetics, Hydrogen, Carbon compounds, Monoxides, Sulfides, Oxidation, Spectrographic analysis, Ethynyl radicals, Vinyl radicals, Synthesis, Polymerization, Catalysts, Catalysis, High pressure research, Conferences.

(Chemistry, TT, v. 7, no. 7) (over)

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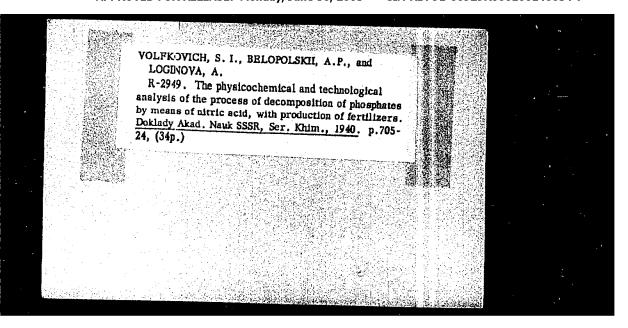
BULLETIN OF THE ACADEMY OF SCIENCES OF THE USSR. DIV. OF CHEMICAL SCIENCE, 1940, NO. 5: [TABLE OF CONTENTS] AND SELECTED ABSTRACTS. [1961] 9p. 9 refs.
Order from OTS or SLA \$1.10 61-20797

Abstract trans. of Akademiya Nauk SSSR. Otdelente Khimicheskikh Nauk. (Izvestiya) 1940, no. 5, p. 601-615, 617-626, 681-689.

DESCRIPTORS: *Chemistry, Abstracting, Periodicals, *Exchange reactions, Reaction kinetics, Hydrogen compounds, Peroxides, Decomposition, Alloys, Catalysts, Catalysis, Rubber.

Contents:
Kinetic basis of the method of isotope indicators.
1. Kinetics of exchange reactions, by S. Z. Roginskii (Chemistry, TT, v. 7, no. 7) (over)

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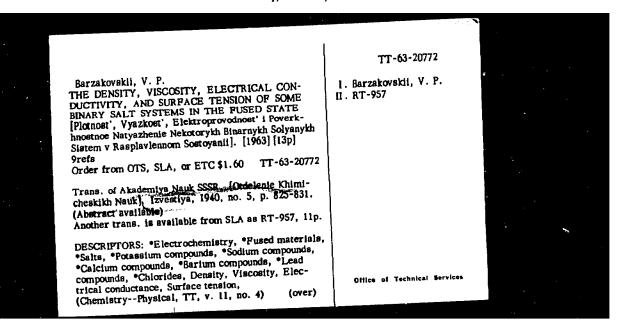


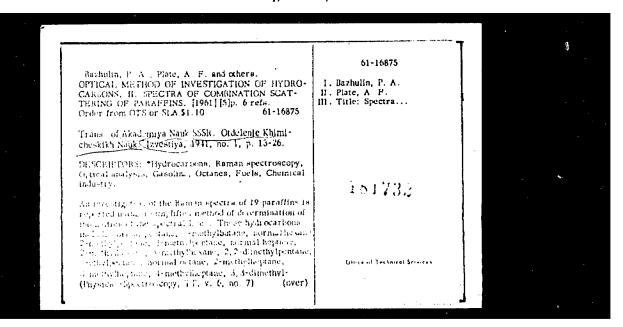
Physicochemical Analysis of Fused Salt Systems, I. Electrical Conductivity of Binary Systems of Mitrates, Chlorides and Iodides of Sodium, Potassium, Thallium, Mercury and Silver, by A. G. Bergman, I. M. Chagin, 22 pp.

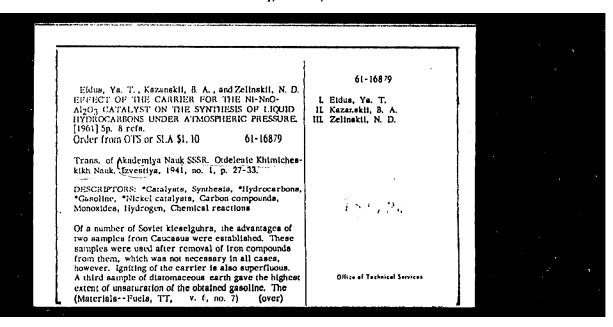
RUSSIAN, per, Iz Al: Nauk SSSR, Otdel Khim Nauk, No 5, 1940, pp 727-738.

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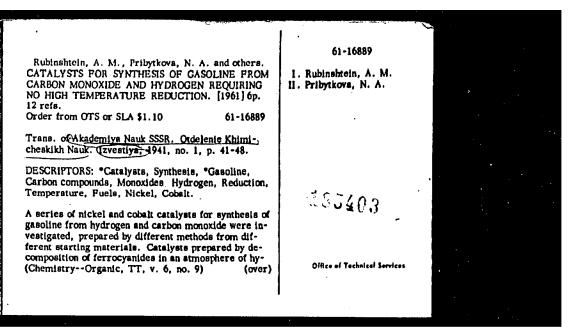
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61-16884 Eidus, Ya. T., Fedichkina, T. L. and others. LOWERING THE REDUCTION TEMPERATURE OF L Eidus, Ya. T. CATALYSTS FOR SYNTHESIS OF LIQUID HYDRO-CARBONS FROM CARBON MONOXIDE AND HYDRO-GEN UNDER ATMOSPHERIC PRESSURE, [1961] 7p. IL Fedichkina, T. L. 10 refs. 61-16884 Order from OTS or SLA \$1, 10 Trans. of Akademiya Nauk SSSR, Ordelenie Khimiches-kikh Nauk (Evestiya, 1941, no. 1, p. 34-40. DESCRIPTORS: Temperature, *Catalysts, Synthesis, *Hydrocarbons, Carbon compounds, Monoxides, 176592 Hydrogen, *Gasoline, Nickel catalysts. Several nickel and cobalt catalysts used for synthesis of liquid hydrocarbons from carbon monoxide and hydrogen were investigated to determine whether the temperatures of their reduction could be lowered. The Office of Technical Services nickel catalysts obtained from oxalates and formates, (Materials -- Fuels, TT, v. 6, no. 6)



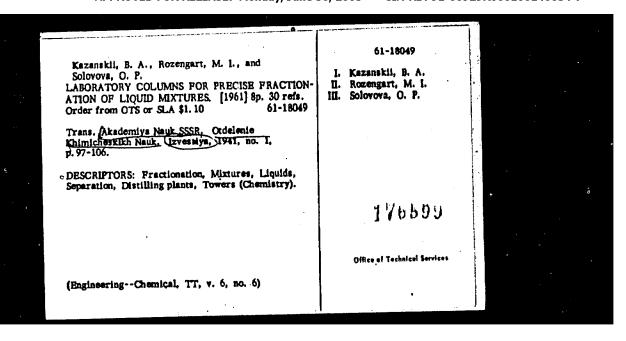
Nametkin, S. S., Rudenko, M. G., and
Gromova, V. N.
ON THE ACTION OF NITRIC ACID ON HYDRINDAN:
PRELIMINARY REPT. [1963] 10p. (formulae omitted)
II refs.
Order from OTS or SLA \$1.10 63-14391

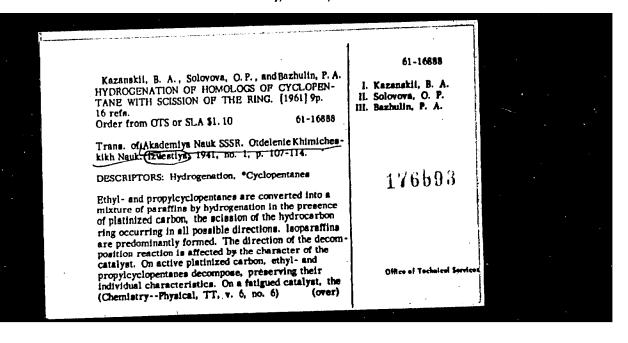
Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Evestiya; 1941, no. 1, p. 61-66.

DESCRIPTORS: *Indene, *Nitric acid, *Nitration,
Hydrogenation, Chemical reactions, Chemical
properties.

(Chemistry, TT, v. 10, no. 5)

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Kazanskii, B. A. and Rozengart, M. I.
POLYMERIZATION OF ISOBUTENE OVER ALUMINUM SILICATE AT DIFFERENT TEMPERATURES.
[1962] [5]p. 12 refs.
Order from OTS or SLA \$1.10 62-14123

Trans. of Akadomiya-Nauk SSSR. Otdelenic Khimicheskikh Nauk. [zvestiya, 1941, no. 1, p. 115-119.
Also available from OTS or SLA \$2.60 in 61-20795
[1961] 25p.

DESCRIPTORS: *Butenes, *Aluminum compounds,
*Silicates, *Catalysts, Temperature, Polymerization

(Chemistry--Organic, TT, v. 10, no. 11)

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Petrov, A. D.
ANTIKNOCK PROPERTIES AND POUR POINTS OF
INDIVIDUAL HYDROCARBONS OF THE DIESEL
FUEL RANGE, I. [1962] 6p 4rets
Order from OTS or SLA \$1.10
62-14126

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskilh Nauk. Brestlya, 1941, no. 1, p. 145-155. Also available from UTS or SLA \$2,60 in 61-20795 [1961] 25p.

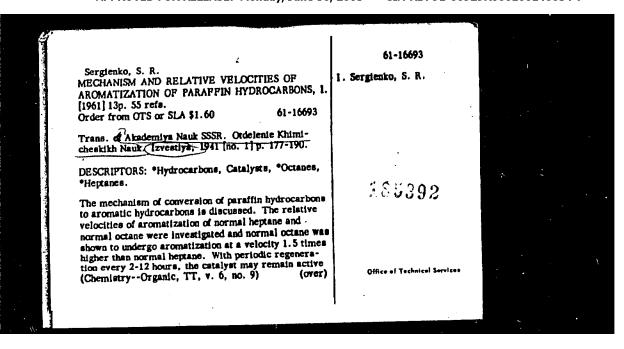
DESCRIPTORS: "Fuel oil, "Antiknock, "Hydrocarbons, Methanes, Ethylenes, Naphthones, Benzunes, Toluenes, Cyclohexanes, Heptanes, Decemes.

(Materials--Puels, TT, v. 10, so. 10)

62-14126

I. Petrov, A. D.

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Sergienko, S. R.

CONTACT CYCLIZATION OF PARAFFINIC HYDRO-CARBONS. II. INVESTIGATION OF THE REACTION PRODUCTS. [1961] 9p. 33 refs.
Order from OTS or SLA \$1.10 61-16695

Trans. Akademiya Nauk SSSR. Ordelenie Khimicheskikh Nauk (Izvestiya) 1941 [no. 1] p. 191-200.

DESCRIPTORS: "Hydrocarbons, Chemical reactions, Catalysts, Dehydrogenation, "Benzenes, Styrenes, Decomposition, "Heptanes, "Octanes.

Two catalysts for dehydrocyclization of aliphatic hydrocarbons were developed. The aromatic hydrocarbons were developed. The aromatic hydrocarbons were investigated formed in catalytic cyclization of the heptane-octane and the nonane fractions of synthin on these catalysts at 4750. It was shown that cyclization occurs with predominant formation of (Chemistry--Organic, TT, v. 6, no. 9) (over)

Plate, A. F. and Tarasova, G. A.
FORMATION OF AZEOTROPIC MIXTURES OF
OLEFINS WITH PRIMARY ALCOHOLS IN SYNTHESIS
OF OLEFINS USING ORGANOMAGNESIUM COMPOUNDS. [1961] 6p. 9 refs.
Order from OTS or SLA \$1.10
61-18006

Trans. o(Wkademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. (zvestiya) 1941, no. 1, p. 201-205.

DESCRIPTORS: *Alcohols, Synthesis, *Ethylenes, *Mixtures, Oxidation, Hydrolysis, Fractionation, Hydrocarbons, Magnesium compounds.

In synthesis of olefins from alkylmagnesium halides and allyl chloride, a primary alcohol is formed by oxidation of alkylmagnesium halide followed by hydrolysis of the obtained alcoholate. This alcohol forms with the synthesized olefin an azeotropic mixture with a minimum boiling point. Thus, 1-heptene forms with (Chemistry--Organic, TT, v. 6, no. 9) (over)

61-18006

1. Plate, A. F.
II. Tarasova, G. A.

Office of Technical Services

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-

CIA-RDP91-00929R000100140054-7

61-18007 Plate, A. P. CATALYTIC CONVERSIONS OF NORMAL NEXYL-T. Plate, A. P. CYCLOPENTANE. [1961] 5p. 11 refs. Order from OTS or SLA \$1.10 61-18007 Trans. of Akademiya Nauk SSSR. Oddelenie Khimi-cheskikh Nauk. (Izvestiya) 1941, no. 1, p. 206-210. DESCRIPTORS: *Cyclopentanes, *Catalysts, Gasoline, Catalysis, Hydrocarbons, Petroleum, Dehydrogenation, 185130 Hexyl radicals. The behavior of cormal hexyleyclopentane was investigated in the presence of platinized carbon at 290-3009 and in the presence of plantification at 230-300 and in the presence of oxide catalysts pronotting aromatization of paraffins at 450-4750. In the first case, sension of the five-member ring occurs in the case, sension of the rive-member ring occurs in the presence of hydrogen and a mixture of endecanes is formed. In the second case, 20-39% aromatic hydrocarbons are also formed. Thus, dehydrocyclization of (Chemistry--Physical, TT, v. 6, no. 8) (over) Office of Technical Services

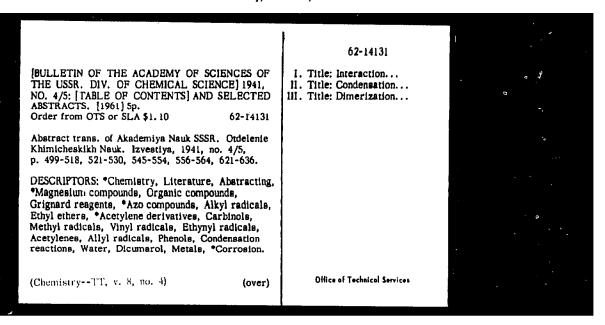
BULLETIN OF THE ACADEMY OF SCIENCES OF THE USSR. DIV. OF CHEMICAL SCIENCE, 1941, NO. 2: [TABLE OF CONTENTS] AND SELECTED ABSTRACTS. [1961 9p. + refs. Order from OTS or SLA \$1.10 61-20794

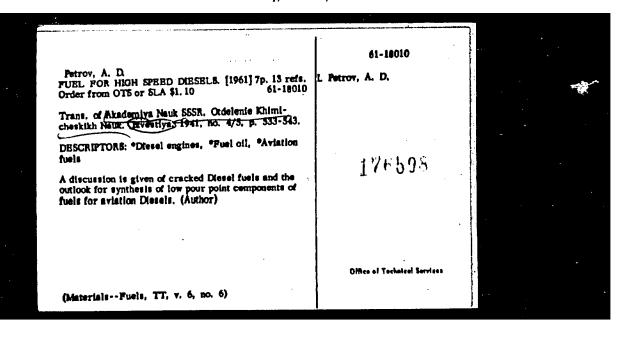
Abstract trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. [Zvestiya] 1941, no. 2, p. 297-335.

DESCRIPTORS: *Chemistry, Abstracting, Periodicals, Hydrocarbons, Chemical reactions, *Acetylene derivatives, Organic acids, Alcohols, Carbinols, Addition reactions, Isomerization, Ketones, Butenes, Polymerization, Scientific research, Colloids, Electrochemistry, Ethynyi radicals.

(Chemistry, TT, v. 7, no. 7) (over)

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[BULLETIN OF THE ACADEMY OF SCIENCES OF THE USSR. DIV. OF CHEMICAL SCIENCE] 1941, NO. 6: [TABLE OF CONTENTS AND SELECTED ABSTRACTS]. [1961] 4p. 5 refs.
Order from OTS or SLA \$1.10 62-14132

Abstract trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvastiya, 1941, no. 6, p. 643-650, 661-667, 673-680, 695-708.

DESCRIPTORS: *Chemistry, Literature, Abstracting, *Intermetallic compounds, Magnesium alloys, Aluminum alloys, Alloys, *Cerium, Metals, Vapors, Salts, Coatings, Polycyclic compounds, *Halogenation, Theory.

Contents:

To the scientists of all countries N. S. Kurnskov's theory of intermetallic compounds, by V. A. Nemilov (Chemistry, TT, v. 8, no. 4) (over)

62-14132

I. Title: Mechanism...

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Effect of Cerium on the Properties of Man Magnesium-Aluminum Alloys, by V. I. Mikheyeva,

RUSSIAN, per, Is Ak Hauk SSSR, Otdel Khim Hauk, No 6, 1941, pp 661-667.

TPA3/TIB Tr No T 4396

Scientific - Min/Metals Mar 55 CT8

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INTERACTION OF DIAZOACETIC ESTER WITH STANNIC CHLORIDE AND FERRIC CHLORIDE, BY A. N. NESMEYANOV, A. E. X SEGALEVICH.

RUSSIAN, PER, IZ AK NAUK SSSR, OTDEL KHIM NAUK, NO 1, 1942, PP 8-13

NLL M.4639

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Balandin, A. A.

CATALYTIC DEHYDROGENATION OF HYDROCARBONS AND ITS APPLICATION TO SYNTHESIS OF RUBBER FROM GASES. [1961] 24p. 90 refs.
Order from OTS or SLA \$2.60 61-18058

Trans. of Akademiya Nauk SSSR. Otdelenje Khimicheskikh Nauk. Izvestiya, 1942, no. 1, p. 21-44.

DESCRIPTORS: *Hydrocarbons, *Synthetic rubber, *Dehydrogenation, *Catalysts, Benzenes, Butanes, Butenes, Synthesis, Butadlenes, Styrenes, Ethyl radicals.

The catalytic dehydrogenation of hydrocarbons on chromic oxide is discussed from the point of view of the author's multiplet theory and examples of dehydrogenation of butane, butene and ethylbenzene given indicating the significance and the applicability of this method for commercial synthesis of butadlene and styrene. (Author)

Physico-Chemical Properties of the Fluorine Compounds of Tetravalent Uranium, by V. G. Khlopin, M. L. Yashchenko, 17 pp. UNCLASSIFIED

RUSSIAN, per, I2 Ak Nauk SSSR Otdel Khim Nauk, Nos 2, 3, 1942, pp 87-97.

AEC Tr 1959

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Scientific - Chemistry

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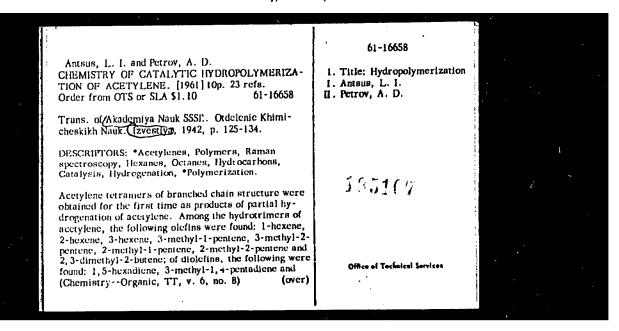
(D: -1101)

On the Theory of the Rate of Crysta likewide Processes at Decreasing Concentration of the Crystallizing Substance in a Homoge Four Figure by O. M. Fodes, 13 pp.

RUSSIAN, por, Iz Ak Hauk SSAR, Otde Khane Property Ho 2/3, 1942, up 106-115.

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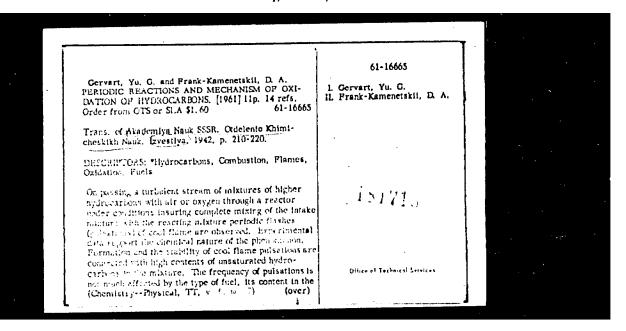
Eidus, Ya. T. and Zelinskii, N. D.
CARBIDE FORMATION AS AN INTERMEDIATE
STAGE OF CATALYTIC SYNTHESIS OF HYDROCARBONS FROM WATER GAS. [1962] 7p. 13 refs.
Order from OTS or SLA\$1.10 62-14616

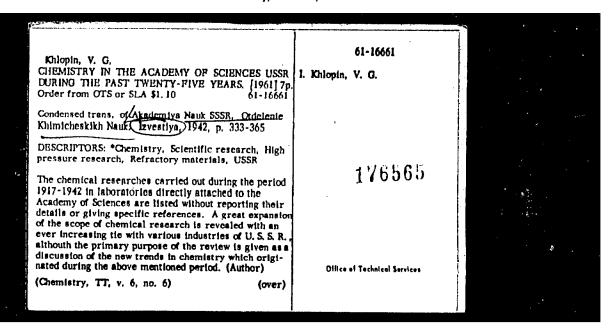
Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1942 [no. 4] p. 190-194.

DESCRIPTORS: *Carbides, Production, *Hydrocarbons,
*Gasoline, Synthesis, *Hydrogen, *Carbon compounds,
*Monoxides, Chemical reactions, Cobalt, Thorium
compounds, Dioxides, Catalysts, Catalysis.

It was established that carbides formed under the action
of carbon nienoxide on the cobalt-thorium dioxidekieselguhr (from Kisattibi, Georgia) catalyst composed
in the proportion of (00:18:100 constitute neither intermediate products nor catalysts promoting the forma(Chemistry-Olympic, Flax, Spins, 4) (over)

Office of Technical Services





Iz Ak Nauk SSSR, Otdel Khim Nauk,

No. 1, page 28-34

Yaba

(1943)

Adsorption of Urangl Salts of Solid Adsorbents by Yu. M. Tolmachev.

AEC Trans (avail. Brookhaven)

Reactions of Some Oxygenated Organic Compounds Over the Cobalt Catalyst Used for Synthesis of Gasoline From Water Gas, by Ya. T. Eidus.

RUSSIAH, per, Iz Ak Wauk SSER, Otdel Khim Wauk, 1943, pp 65-72.

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